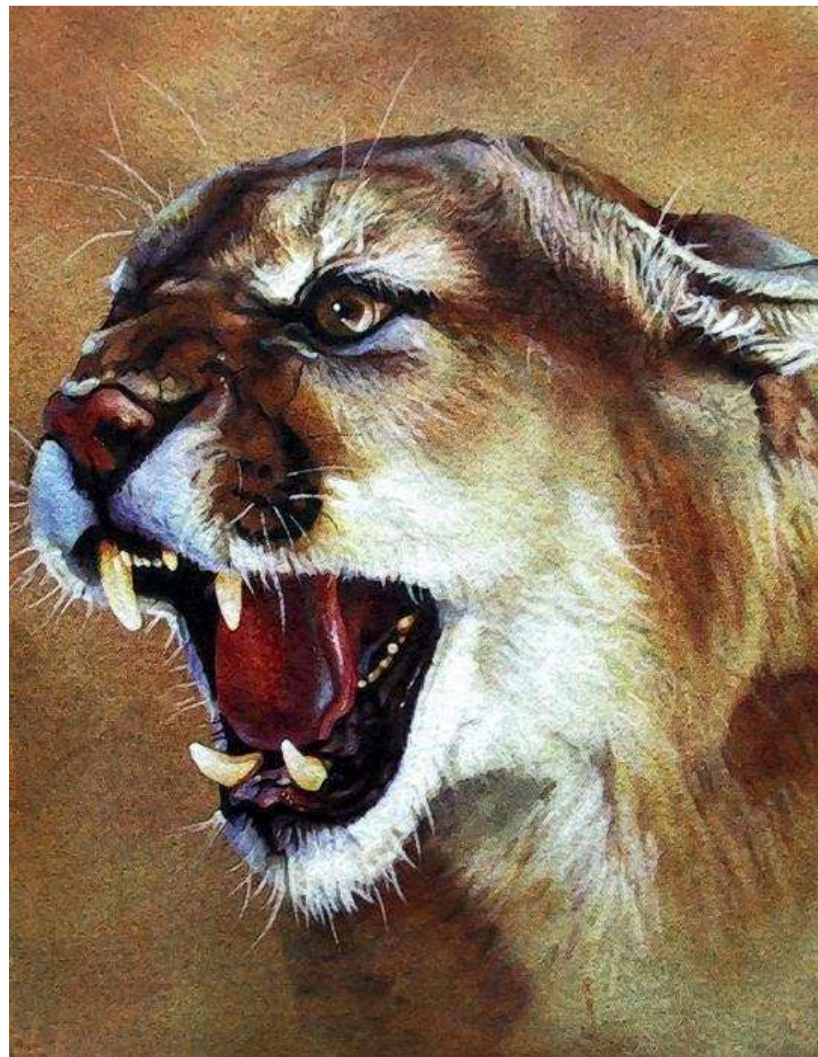


Osan American High School
Home of the Cougars



Course Description Guide

2009-2010

Graduation Requirements

To graduate from Osan American High School students must earn 26 credits divided among the following subject areas

A cumulative grade point of average of 2.0 will be required for graduation in addition to the 6 units listed below.

<u>SUBJECT AREA</u>	<u>Credits</u>
English/Language Arts	4 credits
<i>(2 years of ESL may be substituted for 2 years of English Language Arts.)</i>	
Mathematics	3 credits
<i>(Algebra I and Geometry are required. The third math credit must have a course code of 400 or above excluding Lab classes.)</i>	
Science	3 credits
<i>(Biology is required and either a chemistry or physics credit is required. Physics Apps and Chemistry Apps meet the credit requirements for graduation.)</i>	
Social Studies	3 credits
<i>(1 credit of U.S. History, 1 credit of either World Regions or World History, and 1/2 credit in U.S. Government required.)</i>	
Foreign Language	2 credits
<i>(A total of 2 credits in the same foreign language is required.)</i>	
Fine Arts	1 credits
Prof. Technical Studies	2 credits
<i>(1/2 credit must be in a computer technology.)</i>	
Physical Education	1.5 credits
Health	.5 credits
Electives	6 credits
TOTAL	26 credits

Weighted Grades

Advanced Placement (AP) courses will earn an additional quality point upon completion of the AP exam. No other courses earn weighted grades.

CONTENTS

Subject

English/Language Arts

Mathematics

Science

Social Studies

Foreign Languages

Physical Education/Health

Fine Arts

Professional-Technical Studies

Career/Vocational Education

Distance Learning

Scheduling Worksheets

Subject area codes are listed for all high school courses:

G – Meets graduation requirements in these subject areas

GC – Computer GM – Math EL – Elective

GE – Social Studies GF – Fine Arts GP – PE

GG – US Government GH – Health GV – Careers

GL – Language Arts GU – US History

GS – Science GD – Second Language

ENGLISH/LANGUAGE ARTS

Language Arts 9 LAE 301 (GL)

**Length of Course: 36 weeks
Grade Level: 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 the dictionary and thesaurus to develop an increasingly comprehensive and precise vocabulary; practicing the process of composition, including prewriting, drafting, revising, proofreading, and publishing; identifying with literary characters and how their emotions reflect the student's own actions and emotions; and reading.

Honors Literature 9 LAE 371 (GL)

**Length of Course: 36 weeks
Grade Level: 9**

Must be taken in conjunction with Honors World History 9

The Honors English 9 course is designed to go beyond the skills of recognition, fact gathering, and recall to use higher-level thinking processing skills that emphasize critical reading, analysis, synthesis, and evaluation. In both form and subject, the literature selected for study will be challenging for even the most capable students. The class is distinguished by a difference in the quality of the work expected as well as in quantity and is a demanding study of traditional literary genres, which examines literature both as a springboard for critical thinking and a model for writing. Vocabulary development, language usage, and correct grammatical usage will be stressed. English teacher recommendation and departmental screening required. ***This class does not earn a weighted grade.***

Language Arts 10 LAE 401 (GL)

**Length of Course: 36 weeks
Grade Level: 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; using vocabulary and sentence structure appropriate to the listener and the situation; writing a paraphrase, summary, or précis; writing compositions; understanding, and explaining the type of conflict in a given literary selection; experiencing a

wide range of literary forms; using the media center research facilities; and reading.

Honors Literature 10 LAE 471 (GL)

**Length of Course: 36 weeks
Grade Level: 10**

Must be taken in conjunction with Honors World History 10

The Honors English 10 course is designed to go beyond the skills of recognition, fact gathering, and recall to use higher level processing skills that emphasize critical reading, analysis, synthesis, and evaluation. The literature selected for study will be challenging for even the most capable students. The class is distinguished by a difference in the quality of the work expected as well as an increase in quantity. It is a demanding study of world literature, which examines literature not only as a springboard for critical thinking but also as a model for writing. Vocabulary development, language usage, and correct grammar will be stressed. The development of discussion and presentation skills will focus on analysis, interpretation, and evaluation. English teacher recommendation and departmental screening required. ***This class does not earn a weighted grade.***

Language Arts 11 LAE 501 (GL)

**Length of Course: 36 weeks
Grade Level: 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; inferring conclusions; writing essays responding to social, political, and literary concepts; writing compositions of more than one paragraph using narration, exposition, and or description; recognizing and understanding the use of literary and stylistic devices; experiencing a wide range of literary works written in the United States, and reading self-selected books to develop personal reading as a useful and pleasurable activity.

AP English Language LAC 614 (GL)

**Length of Course: 36 weeks
Grade Level: 11-12**

Preparation: Language Arts 10 and teacher recommendation

The AP English 11 course emphasizes college level composition skills. The course will explore advanced non-fiction writing techniques and students will read a variety of materials at the college level. Students will study advanced forms of rhetoric typically found in a freshman level college composition class. The student must have a solid background in writing and the desire to be challenged. Students will take the standardized AP Language/Composition test in May.

**Language Arts 12
LAE 601 (GL)**

**Length of Course: 36 weeks
Grade Level: 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 computer technology as an aid in writing compositions (where hardware is available); 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 literature; engaging in discussions of philosophical questions as revealed in literary works.

**AP English Literature
LAL 613 (GL)**

**Length of Course: 36 weeks
Grade Level: 12**

Preparation: Language Arts 11 and teacher recommendation

The AP English Literature 12 course is designed to explore systematically and analyze critically the chronological evolution of literature from early myths and legends to the 20th century. Each quarter is used to study representative works showing the change in techniques, thoughts, and style through each significant period. Students will take the standardized AP Literature/Composition test in May.

**Language Arts Lab
LAE 305,405,505,605 (EL)**

**Length of Course: 36 weeks
Grade Level: 9-12**

The Language Arts Lab course is designed to improve reading, writing, speaking, and listening skills of students not achieving at grade level. Students will read to learn by: connecting text to prior knowledge, understanding text structure to analyze and respond to literature, using text processing strategies "before", "during", and "after" reading to build a foundation for a text, make sense of reading as it occurs, and to synthesize, apply, evaluate, or bridge understanding. Students will increase skill and confidence in writing by using the Writing Process...prewriting, drafting, revision, editing, and publishing, practicing timed writing, taking notes on literature, reflecting, discussing, and evaluating writing assignments. Students will increase confidence and ability to articulate and support ideas by engaging in both formal and informal presentations and learning how to be active listeners.

**English as a Second Language (ESL)
ESL-Beginning Communication LAA 301
ESL-Developing Communication LAA 401**

Grade Levels: 9-12

**ESL-Expanding Communication LAA 501
ESL-Bridging Communication LAA 601**

**Length of Course:
36 weeks**

The English as a Second Language courses are designed to strengthen the English language skills of students who speak other languages, including the skills of listening, reading, speaking, and writing. The content includes, but is not limited to: listening to English to practice comprehension, verbalizing experiences orally, practicing the process of composition, and developing verbal skills necessary for the world of work and/or post-secondary education.

**Yearbook
AA301 (EL)**

**Length of Course: 36 weeks
Grade Level: 9-12**

The yearbook production course is a practical course designed to produce the official yearbook for the school. All phases of yearbook production, including photography, copy writing, page layout, and book and advertisement sales are included. The concept of accurate photojournalism is balanced with the need to present the events, activities, and personalities of the school year in a positive manner. This is a repeatable course.

**AVID
LAV 301, 401, 501, 601 (EL)**

**Length of Course: 36 weeks
Grade Level: 9-12**

AVID is not an open elective program. Students are admitted to the program only after teacher recommendation and screening by the AVID committee.

Major Concepts/Content: AVID (Advancement Via Individual Determination) is a language arts based curriculum with emphasis on the writing process and writing as a tool of learning. In addition to inquiry and collaboration, AVID also provides students with academic survival skills, i.e., time management, note taking, textbook reading, library research, test taking skills, study skills. The Cornell note-taking system is taught and students are expected to use this system in all classes.

**Reading Lab
RED 305, 405, 505, 605 (EL)**

**Length of Course: 36 weeks
Grade Level: 9-12**

This course is designed to improve reading achievement for students not reading at grade level through the use of a whole group instructional model with small group rotations including Literacy instruction with technology support providing models and Lexile leveled text passages for instruction. Modeled and independent reading using leveled literature to model or practice good reading strategies.

Mathematics

Algebra I

MAA 301 (GM)

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 principals with everyday life. Students will use formulas, functions, and equations to describe and clarify relationships as well as solve first and second degree equations and use functions to model real-world phenomena. Students will have access to calculators at appropriate times. Cooperative learning and appropriate technologies are utilized throughout the course. This course generally follows middle school mathematics or an introductory math class offered in grades 9 through 12. A passing score on the diagnostic test is required for 8th grade students taking this course.

Grade Level: 9-12

Length of Course: 36 weeks

Algebra I Lab

MAA 305 (EL)

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.

Length of Course: 36 weeks

Grade Level: 9-12

Geometry

MAG 401 (GM)

Preparation: Algebra I

This course is designed to develop and promote student reasoning and problem solving involving geometric concepts and properties. Students will learn how to plan, organize, and complete various forms of proofs using deductive reasoning. Students will have access to calculators at appropriate times. This course involves inductive reasoning, extended projects, classroom presentations by students, open-ended investigations, and written justification by students of the solutions to problems.

Length of Course: 36 weeks

Grade Level: 9-12

Geometry Lab

MAG 405 (EL)

Length of Course: 36 weeks

Grade Level: 9-12

This class will support and reinforce the basic geometric concepts taught in the Geometry, MAG 401 course. Students will have additional opportunities to develop two- and three-dimensional reasoning skills, to understand coordinate and transformational geometry, trigonometric relationships, and to use geometric models to solve problems. They will build on their problem solving experiences to further develop their deductive and inductive reasoning skills, and methods of justifications. A variety of applications and some general problem-solving techniques will be used, including algebraic skills.

Discrete Math

MAZ 501 (GM)

Preparation: Algebra I & Geometry

Discrete Math embraces several topical areas of mathematics, some of which go back to early stages of mathematical development while others are more recent additions to the discipline. This course is the study of mathematical properties of sets and systems that have a countable number of elements. *Discrete Mathematics* can be viewed as the mathematics necessary for decision making in non-continuous situations. It has many practical applications that are useful for solving some of the problems of our society and affords students the opportunity to be able to function as informed citizens in an increasing technological society.

Length of Course: 36 weeks

Grade Level: 10-12

Math Lab III

MAA 405 (EL)

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.

Length of Course: 36 weeks

Grade Level: 10-12

Algebra II

MAA 401 (GM)

Preparation: Algebra I, completion of Geometry is recommended.

This course will help students to view algebra as a language of modeling the real world through problem solving and using the language of mathematics. Students will study 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

Length of Course: 36 weeks

Grade Level: 9-12

series, probability and statistics, and circular trigonometric functions. Students will have access to calculators at appropriate times.

**Math Analysis
MAD 501 (GM)**

**Length of Course: 36 weeks
Grade Level: 11-12**

Preparation: Algebra II

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 inference, algebra and algorithms. Reasoning in trigonometry, probability, discrete math, structure, and the conceptual underpinnings of calculus is a major emphasis in this course.

**AP Calculus
MAC 612 (GM)**

**Length of Course: 36 weeks
Grade Level: 12**

Preparation: Math Analysis and teacher recommendation

The Calculus class is designed to provide a review of trigonometry; to present the differentiation of sines, cosines, and functions of one variable; methods of integration, the definite integral and its applications, transcendental and hyperbolic functions, and topics in plane analytic geometry, polar coordinates, vectors, parametric equations, infinite series and differential equations. Students will take the standardized AP Calculus AB test in May.

SCIENCE

**Physics Apps in the Community
SCP 302 (GS)**

**Length of Course: 36 weeks
Grade Level: 9-12**

This Introduction to Physics course is designed to provide exposure to many current discoveries, events, and theories with the purpose of supporting the student in developing hypotheses – various ways of looking at evidence – as the natural phenomena of the physical universe is explored. The curriculum is discovery-based and activity/project oriented, with an emphasis on space more than earth. Some Algebra is involved.

**Biology I
SCB 401 (GS)**

**Length of Course: 36 weeks
Grade Level: 9**

The Biology I course is designed to introduce the study of living things. Therefore, the understanding of life and life processes depends on mastering the unifying principles and concepts applicable to all life forms. Topics are studied

from the simplest to the most complex levels of biological organization. The life processes of organisms from different kingdoms are compared so that adaptations necessary to carry out life functions can be understood. Some topics studied throughout the year include classification of plants and animals; characteristics of life, heredity, and evolution; diversity within the plant and animal kingdoms; simple organisms; and biological influences on the environment. Departmental recommendation is required for 9th grade students.

**AP Biology
SCB612 (GS)**

**Length of Course: 36 weeks
Grade Level: 11-12**

The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. After showing themselves to be qualified on the AP Examination, some students, as college freshmen, are permitted to undertake upper-level course in biology or to register for courses for which biology is a prerequisite. Other students may have fulfilled a basic requirement for a laboratory-science course and be able to undertake other courses to pursue their majors

**Chemistry Apps in the Community **
SCC 502 (GS)**

**Length of Course: 36 weeks
Grade Level: 10**

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 and nature of science. Students study basic concepts of chemistry, while integrating physical concepts with societal issues.

**Chemistry I
SCC 501 (GS)**

**Length of Course: 36 weeks
Grade Level: 10-12**

Preparation: Successful completion of Algebra I

The Chemistry I course is designed to introduce the study of chemistry topics such as atomic theory and structure, chemical bonding, principals of chemical reactions, and molecular structure. Instructional activities include fundamental chemistry concepts that will be introduced early in the course, then developed and utilized later as the student becomes more confident with the concepts being introduced. Laboratory experiments will be used to introduce topics. Major emphasis will be placed on problem solving. Exercises, questions, lab activities, and problems will be assigned regularly so that the fundamental concepts will be used deliberately and pointedly.

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 class does not earn a weighted grade*

Honors World History 10 **Length of Course: 36 weeks**
SSW 471 (GE) **Grade Level: 10**
Must be taken in conjunction with Honors English 10

A study of world history from 1500s to modern times. Features a strong focus on student research and interdisciplinary connections. Students will develop thinking and reasoning strategies similar to those used in Advanced Placement courses. This class will incorporate critical reading, writing and research activities. Daily classroom activities include an emphasis on analytical and interpretative thinking and writing. This course provides multiple assessments including a major research project and substantial writing samples. *This class does not earn a weighted grade.*

United States History **Length of Course: 36 weeks**
SSU 501 (GU) **Grade Level: 11-12**

The United States History course at the eleventh grade level is a required course designed to emphasize our nation's history from Reconstruction to the present. Both basic and advanced social studies skills receive emphasis. Influences of and relations with the host nation during these periods are explored as part of the course. Students examine immigration and migration in the United States, present oral and written reports, design diagrams, etc.

AP US History **Length of Course: 36 weeks**
SSU 611 (GU) **Grade Level: 11-12**

The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. In addition to exposing students to historical content, an AP course should also train students to analyze and interpret primary sources, including documentary material, maps, statistical tables, and pictorial and graphic evidence of historical events. Students should learn to take notes from both printed materials and lectures or discussions, write essay examinations, and write analytical and research papers. They should be able to express themselves with clarity and precision and know how to cite sources and credit the phrases and ideas of others. Students will take the scheduled AP US History exam in May.

Sociology **Length of Course: 18 weeks**
SSS 401 (GE) **Grade Level: 11-12**

The Sociology course is designed to be a one-semester elective course offered to students in grades eleven and twelve. The course emphasizes the study of the structure of society and its groups, institutions and cultures. Students investigate social and cultural phenomena that influence the behavior of groups and individuals. Students study current social problems and utilize methods of sociological investigation and research.

Psychology **Length of Course: 18 weeks**
SSP 501 (GE) **Grade Level: 11-12**

The Psychology course is designed to be a one-semester elective course offered to students in grades eleven and twelve. This study of human beings focuses on physical characteristics, cognitive ability, emotional states, and social interaction. Students study the stages of human development, motivational theory, theories of personality, and mental wellness and illness. The process of scientific investigation is a major part of this course.

Street Law **Length of Course: 18 weeks**
SSZ 303 (GE) **Grade Level: 11-12**

The Street Law course is an elective one-semester course designed to provide students with knowledge about law that is of practical use in their everyday lives. Students will learn how every purchase, lease contract, marriage, divorce, crime, or traffic violation places them face-to-face with the law. Topics will include an introduction to law and the legal system, criminal law, torts, consumer law, family law, housing, and individual rights and responsibilities.

Contemporary Issues **Length of Course: 18 weeks**
SSZ 501 (GE) **Grade Level: 10-12**

The contemporary issues course examines contemporary 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 in some detail, and a necessarily brief exposition of the history, nature, and development of communism will also be included.

**United States Government
SSG 601 (GG)**

**Length of Course: 18 weeks
Grade Level: 12**

The United States Government course is a required one-semester course designed to provide seniors with essential knowledge, skills, and attitudes related to the nation's government and its historical development.

**AP Government & Politics
SSG612 (GG)**

**Length of Course: 36 weeks
Grade Level: 12**

A well-designed AP course in U.S. Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute politics. While there is no single approach that an AP United States Government and Politics course must follow, students should become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. Certain topics are usually covered in all college courses. The following is an outline of these topics that should be explored in the course.

FOREIGN LANGUAGES

**Level I (French, Korean, Spanish)
FLF, FLK, FLS 301 (GD)**

**Length of Course: 36 weeks
Grade Level: 9-12**

The first year program is designed for the student to give simple oral and written information by using appropriate learned vocabulary, word order and grammatical forms, and read simple passages with comprehension.

**Level II (French, Korean, Spanish)
FLF, FLK, FLS 401 (GD)**

**Length of Course: 36 weeks
Grade Level: 9-12**

Preparation: Successful completion of Level I

The second year program is designed to provide activities, projects and experiences that will enable the student to appreciate and value the target language. There is a stronger emphasis in communication ideas based on real life situations. Higher-level grammatical structures will be practiced. Reading and writing activities will become more complex.

**Level III (French, Korean, Spanish)
FLF, FLK, FLS 501 (GD)**

**Length of Course: 36 weeks
Grade Level 9-12**

Preparation: Successful completion of level II or teacher recommendation

The third year language course is designed to continue with speaking, reading, and writing skills. The critical thinking skills become more spontaneous and fluency in all skill areas is emphasized. The skill of translation, interpreting and analyzing information and concepts is stressed. Students are encouraged to think in the target language.

**Level IV (French, Korean, Spanish)
FLF, FLK, FLS 601 (GD)**

**Length of Course: 36 weeks
Grade Level 10-12**

Preparation: Successful completion of level III or teacher recommendation

The fourth year language course is designed to continue reviewing and reinforcing all previously presented foreign language skills. Students demonstrate self-reliance and proficiency in using proper grammar and syntax of the target language. Emphasis is placed on reading and writing skills. Fluency in speaking the language will continue to be stressed

PHYSICAL EDUCATION/HEALTH

**Personal Fitness
PEF 301 (GP)**

**Length of Course: 18 weeks
Grade Level: 9-12**

The Personal Fitness course is designed to provide students with knowledge and the opportunities to make personal decisions about personal fitness, exercise, and lifestyles. The essential concepts of this course include WHY exercise is important, WHAT are individual exercise needs and how to evaluate them, and HOW to exercise safely. Students will be given information on how to design their own personal fitness program.

**Lifetime Sports
PEL 301 (GP)**

**Length of Course: 18 weeks
Grade Level: 9-12**

The Lifetime Sports course is designed to provide students with enjoyable and successful experiences in physical education, and to provide a basis for the individual to participate in physical activity throughout life. Instructional activities will provide students with opportunities in individual, dual, and team sports.

**Physical Activity and Nutrition
PEN 301 (GP)**

**Length of Course: 18 Weeks
Grade Level: 9-12**

Recommendation Preparation: Personal Fitness and Lifetime Sports

This one semester physical activity and nutrition course is required for graduation. This course provides a variety of opportunities for students to experience alternative, non-competitive physical activities. It is designed to enable students in grades nine through twelve to develop the movement skills and conceptual knowledge necessary to implement a personal physical activity and nutrition plan. Students participate in non-competitive physical activity and meal planning with pre and post physical activity and nutrition assessments. Students access information, and obtain and analyze data, and develop their own personal activity and nutrition plan.

Health Ed I **Length of Course: 18 weeks**
HLH 301 (GH) **Grade Level: 9-12**

The Health I course is designed to provide students with comprehensive information about contemporary health topics. Topics to be included are: mental/emotional health, family/social health, growth/development, substance use/abuse, food/nutrition, exercise/fitness, diseases/disorders, consumer/personal health, and safety/first aid. The course assists students in acquiring the knowledge and skills necessary to become independent adults and achieve optimum health. Course content will focus on attitudes and behavior and their effect on social and physical health.

Conditioning Sports & Activities **Length of Course: 18-36 weeks**
PEG 402 (EL) **Grade Level: 10-12**

Preparation: Successful completion of Personal Fitness and Lifetime Sports

The Conditioning Sports and Activities class 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 of the student's choosing. The course focuses on one category of sports, teaching and improving the motor skills and tactical knowledge unique to that category of sport or activity. The focus is on continued skill development and enjoyment of sports participation through enhanced understanding and application.

FINE ARTS

Beginning Band **Length of Course: 36 weeks**
MUI 301 (GF) **Grade Level: 7-12**

The Beginning Band course is designed to introduce students to the following: basic instrumental music techniques such as tone production, articulation, breath control, pitch discrimination; melodic and rhythmic concepts and patterns; practice skills and habits; solo, ensemble, and full group rehearsals; a variety of instrumental repertoire; opportunities for private instruction; experiences in performing; and sound practice habits.

Intermediate Band **Length of Course: 36 weeks**
MUI 302 (GF) **Grade Level: 9-12**
Preparation: Beginning Band

The Intermediate Band course is designed to acquaint students with intermediate to advanced instrumental music skills which include, but will not be limited to, the following content: intermediate to advanced level sight-reading skills; discrimination of pitch; absolute essentials for playing in tune; intermediate to advanced rhythm concepts and patterns; techniques for achieving the essentials of unity, balance, and contrast in performing instrumental music; the study of all major and minor scales; the opportunity of performing a variety of good musical repertoire; and listening skills development.

Advanced Band **Length of Course: 36 weeks**
MUI 303 (GF) **Grade Level: 9-12**
Preparation: Intermediate Band

The Advanced Band course is designed to acquaint students with advanced instrumental music skills. The content includes, but is not limited to: the interpretation and analysis of musical scores; the application of musical nuances in playing from a score; independent performance of all major and minor scales; advanced rhythm patterns; performance as a soloist and in small and large groups; a variety of music repertoire, including style, periods, forms, electronic music; intermediate to advanced level sight-reading exercised; and introduction to computer/synthesizer musical composition.

Beginning Chorus **Length of Course: 36 weeks**
MUV 301 (GF) **Grade Level: 9-12**

The Beginning Chorus course is designed to provide students, but not limit them to, the following: learning the beginning and basic fundamentals of sight-reading vocal music, rehearsing and performing unison and two-part music, singing with small and large groups, studying intonation, experiencing a wide

variety of choral literature including secular and non-secular music, singing with keyboard and other accompaniment, and participating in public performances and musical productions.

Advanced Chorus

MUV 302 (GF)

Preparation: Beginning Chorus

The Advanced Chorus course is designed to provide students the following advanced vocal musical learning experiences: continuing development of sight-reading ability; analyzing, rehearsing, and performing unison, two-, three-, and four-part music; singing with small and large ensembles in addition to solo opportunities; singing a cappella; experiencing a wide variety of choral literature including secular and non-secular music; singing with individual and ensemble instrumental accompaniment; and participating in choral performances. *This is a repeatable course.*

Length of Course: 36 weeks

Grade Level: 9-12

Guitar I, II

MUS 301, 302 (GF)

The Guitar courses are designed to introduce students to the study of the guitar. The content includes, but is not limited to: staff notation and rhythm concepts, major and minor chord recognition, strumming and picking techniques, double and triple meters, performance as soloists and in group ensembles, tuning and intonation, and guitar accompaniment techniques. *This is a repeatable course.*

Length of Course: 36 weeks

Grade Level: 9-12

Fundamentals of Art

ARA 301 (GF)

The Fundamentals of Art course is designed as the basic entry course for the art program. The course provides instruction in the use of the elements of line, color, texture, shape, and space arrangement in works of art. Students learn how to compose a balanced, rhythmic, unified design through a series of assignments that use a variety of two- and three-dimensional art media. Course emphasis is placed on basic techniques of drawing, painting, printmaking, and sculpture that can be used throughout life for communication, expression, and enjoyment.

Length of Course: 36 weeks

Grade Level: 9-12

Ceramics

ARE 401 (GF)

The Ceramics course is designed to provide a studio-oriented experience with the study of clay. Students explore the properties of clay by making utilitarian and sculptural forms that emphasize form, design, and craftsmanship. The

Length of Course: 36 weeks

Grade Level: 9-12

course includes instruction in clay application, in kiln management, and in the historical role of ceramics in our culture. *This is a repeatable course.*

Studio Art

ARS 401 (GF)

Preparation: Fundamentals of Art and teacher recommendation

The Studio Art course is designed either as units of study in various media, or as an individualized course for advanced students. Students who would like to develop skills in several media would benefit from the course. Students can concentrate on selected media by choosing activities from a wide range of options: drawing, watercolor painting, acrylic painting, oil painting, sculpture, commercial art, creative crafts, lettering, printmaking, and mixed media. *This is a repeatable course.*

Length of Course: 18 or 36 weeks

Grade Level: 10-12

Commercial Art

ARM 401 (GF)

Preparation: Fundamentals of Art and teacher recommendation

The commercial art course is designed to explore the fundamental skills required in the design and production of advertising and promotional art. Emphasis is placed on the creative processes used before producing finished artwork; e.g., sketches, client presentations, and revisions. This class will include instruction in basic drawing and composition skills, and in graphic design techniques, lettering, and layout.

Length of Course: 36 Weeks

Grade Level: 10-12

Drama

DRA 301 (GF)

This course is designed to give the students opportunity to experience drama and to demonstrate knowledge of the historical background of drama. The content includes the different genres of drama (tragedy, comedy, farce, melodrama, musical), elements of playwriting; the different historical periods of drama and acting; the work of important dramatists; understanding the importance of drama as a reflection of society and the recognition of drama as a self-rewarding activity. *This is a repeatable course.*

Length of Course: 36 weeks

Grade Level: 9-12

Humanities

HUH 401 (GF)

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

Length of Course: 18 weeks

Grade Level: 9-12

responsibilities of the individual in a society. Students explore aspects of human behavior and human ideals.

PROFESSIONAL-TECHNICAL STUDIES

Business & Personal Finances **Length of Course: 36 weeks**
PTB 301 (GV) **Grade Level: 11-12**

This course is designed to make students aware of the financial challenges confronting them in daily living. Included will be such topics as how to make intelligent decisions in spending and saving; how to maintain good financial records; how to avoid financial disasters that result from the unwise use of credit and credit cards; information about banking services, insurance choices, and investment choices; and how to prepare income tax forms.

Accounting I **Length of Course: 36 weeks**
BCA 401 (GV) (Computer Credit) **Grade Level: 10-12**

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.

Accounting II **Length of Course: 36 weeks**
BCA 501 (GV) (Computer Credit) **Grade Level: 11-12**

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.

Business Law **Length of Course: 36 weeks**
PTB503 (GV) **Grade Level: 11-12**

Business Law provides the student with a survey of the American legal system. This course develops an understanding of law as applied to society and to the individual. Topics include the judicial system, contracts, warranties, guarantees, consumer protection, real property, landlord and tenant relationships, sole proprietorship, partnerships, and corporations.

MKTG & Entrepreneurship **Length of Course: 36 weeks**
PYB 501 (GV) **Grade Level: 11-12**

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.

Computer Applications I **Length of Course: 18 weeks**
BCT 301 (GC) **Grade Level: 9-12**

The Computer Applications I course 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.

Word Proc Software App **Length of Course: 18 weeks**
BCB 303 (GC) **Grade Level: 9-12**

For certification

Word Processing Software Applications provides students with the opportunity to develop professional level skills in word processing software.

Publication Software App **Length of Course: 36 weeks**
BCB 308 (GC) **Grade Level: 9-12**

For certification

Publication Software Applications is a course designed for students with an interest in desktop publishing. This course will prepare the student for the InDesign Certification Exam as well as provide training in the software for personal use, employment, and advanced education.

Presentation Software App **Length of Course: 18 weeks**
BCB 304 (GC) **Grade Level: 9-12**

For certification

Use presentation software to demonstrate a thorough understanding of creating a presentation, inserting and modifying text, inserting and modifying visual elements, modifying presentation formats, printing presentations, working with data from other sources, managing and delivering presentations, and workgroup collaboration.

Database Software App **Length of Course: 36 Weeks**
BCB 305 (GC) **Grade Level: 9-12**

For certification

Use database management software to demonstrate a thorough understanding of creating and using databases, creating and modifying tables, creating and modifying queries, creating and modifying forms, viewing and organizing information, defining relationships, producing reports, and integrating with other applications.

Spreadsheet Software App **Length of Course: 36 Weeks**
BCB 306 (GC) **Grade Level: 9-12**

For certification

Use spreadsheet software to demonstrate a thorough understanding of working with cells and cell data, managing workbooks, formatting and printing worksheets, modifying workbooks, creating and revising formulas, creating and modifying graphics, and workgroup collaboration.

Imaging Software App **Length of Course: 36 Weeks**
BCB 307 (GC) **Grade Level: 9-12**

For certification

Use imaging software to demonstrate a thorough understanding of file formats; using the work area and work spaces; importing, exporting and saving; working with sections; creating and using layers; using masks and channels; managing color, adjusting images; drawing and editing; painting; retouching; using actions; working with type; outputting to print; and outputting for the web.

Interactive Multimedia **Length of Course: 36 Weeks**
BCT 405 (GC/GV) **Grade Level: 9-12**

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

Website Dev-Mgmt **Length of Course: 36 weeks**
BCT 407 (GC/GV) **Grade Level: 9-12**

In Web Site Development & Management, students will design, implement, and manage a web site. This is a hands-on laboratory course designed to teach students the concepts, skills and processes involved in web site development and management.

CISCO Networking I **Length of Course: 36 weeks**
BCT 502 (GC/GV) **Grade Level: 11**

This course prepares students to become network engineers and prepares them for entrance into a technology career field or for further technology study. The program includes a complete range of basic and advanced networking concepts – from pulling cables through such complex concepts as subnet masking rules and strategies. Successful completion of this course and the Cisco Networking 2 course should prepare the student to pass the Cisco Certified Network Associate (CCNA) examination.

CISCO Networking II **Length of Course: 36 weeks**
BCT 602 (GC/GV) **Grade Level: 12**

This second course prepares students to become network engineers and prepares them for entrance into a technology career field or for further technology study including field experience in network problem solving. 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. Successful completion of this course (and Cisco Networking 1) should qualify the student to pass the Cisco Certified Network Associate (CCNA) exam.

Engineering Drawing CADD **Length of Course: 36 weeks**
TED 303 (GV/GC) **Grade Level: 9-12**

Engineering Drawing covers fundamentals, concepts, equipment, and skills related to the production of drawings including geometric construction, orthographic projections, pictorial drawings, basic architectural drawing, and working drawings for manufacturing and construction. Students will complete drawing assignments using computer technology.

Applied Arch Design-CADD **Length of Course: 36 weeks**
TED 302 (GC/GV) **Grade Level: 9-12**

Course content includes, but is not limited to, determining purposes, uses, and aesthetics of structures, the analysis of various architectural designs, apply principles of environmental and energy efficient design, and use current construction materials and practices. Students will prepare and present multimedia presentations using a variety of software and technologies. This is a real or simulated design project meeting the needs of actual clients.

**Engineering Design-Dev
TED 601 (GC/GV)**

**Length of Course: 36 weeks
Grade Level: 12**

In this course, students will work in teams of two to four individuals to design and construct the solution to an original engineering problem. Each design problem is taken from a database of design problems offered to all DoDEA students enrolled in the course. As students work on their capstone project they will develop technical writing skills and use a variety of CAD, CAM, GIS, fabrication, manufacturing, and robotics technologies. Students will also maintain an engineering journal and develop a portfolio. This course is the culmination of the pre-engineering curriculum and is intended as an opportunity for students to utilize all the skills acquired through the pre-engineering strand of courses.

**Engineering Design & Tech I &II
PTE 501, 601 (GV)**

**Length of Course: 18 weeks (each)
Grade Level: 10-12**

Prerequisite: Engineering Drawing or Principles of Engineering

The course introduces students to the technology systems, tools, materials, and processes of industry through computer and teacher instruction and hands on real world activities. This course will provide students with a solid foundation in the following three fields. Electricity and Electronics, Quality Control, Manufacturing Processes. *It is intended that students take both level I and level II in the same school year.*

**Computer Service Support
VEE 309 (GC/GV)**

**Length of Course: 36 weeks
Grade Level: 10-12**

This program is intended to prepare students for computer support careers. Students enrolled in this course will learn how to perform shop maintenance, repair computers, install operating systems and software, acquire employment skills, as well as operate a service and support business. The course will provide students with concepts and skills necessary to achieve certification in PC Repair and Technical Support.

**Architectural Drawing
TED 305 (GC/GV)**

**Length of Course: 36 weeks
Grade Level: 9-12**

This course is designed to provide students with instruction and skills in computer aided drawing (CAD) fundamentals commonly used in the production of residential and commercial buildings. The course includes the study of the basic fundamentals of design, and the skills related to the production of architectural designs. The content includes, but is not limited to, designing

interior and exterior elements of structures in both two-dimensional and three-dimensional representations. Students will prepare presentations of designs created using CAD technology.

**Video Communications I
PTV 301 (GC/GV)**

**Length of Course: 36 weeks
Grade Level: 9-12**

The Video Communications I course for students in grades 9 through 12 is designed to introduce students to the concepts and equipment related to video production. Through a hands-on, project oriented approach, students will apply knowledge on filming, composition, linear/non-linear insert editing, lighting, storyboarding, audio and computer graphics/effects in order to communicate effectively using the video communication medium. A variety of instructional activities will be used so students can successfully apply the video communication concepts. Students will learn correct filming techniques and how to edit video and sound in order to communicate clearly. Students will also combine digital video footage with non-linear computer based editing in order to produce a video project of high quality. Computer graphics, transitions, and filter effects will also be incorporated into video productions. Students will explore the historical background, and career fields related to video/film production in order to decide if this is a career field they may be interested in.

**Video Communications II
PTV 401 (GC/GV)**

**Length of Course: 36 weeks
Grade Level: 9-12**

The Video Communications Seminar course will expand on the student's ability to apply concepts and skills learned in the first two courses. Students will continue to refine their video production skills while completing video communication projects at a quality level consistent with post secondary programs or entry level in the career field. Students will construct studio and/or on-site editing situations and assist others with the application of video communication concepts. Students will continue to refine their video communication skills by producing a wider variety of video productions for the school and community. Projects will emphasize the application of both basic and advanced skills such as storyboarding, lighting, set design, audio techniques, advanced editing/transitions, on-site and studio based editing, and advanced computer based graphics and non-linear computer based editing.

**Principals of Engineering
TEZ 301 (GC/GV)**

**Length of Course: 18 weeks
Grade Level: 9-12**

The Principles of Engineering course is designed to provide students with an exposure to the various engineering and related career choices. Students will explore careers in engineering, ranging from engineer technicians with 1-2 years of post-secondary education to professional engineering specialties. The content includes, but is not limited to, studying the process of engineering and engineering systems. Student design teams will be involved in problem solving projects that will require formulating plans for product development; developing preliminary designs; preparing detail, assembly, and layout drawings; developing prototype models; using two- and three- dimensional CAD workstations. Students will use the Internet as one of many tools in researching their project designs. A variety of computer software programs will be used in developing a presentation of final project solutions. This course is strongly recommended for students aspiring to become engineers, architects, and engineer technicians. This course is part of the School-to-Work transition guidelines.

CAREER/VOCATIONAL EDUCATION

Junior Reserve Officer Training **Length of Course: 36 weeks**
VEF 301, 401, 501, 601 (GV) **Grade Level: 9-12**

The Air Force JROTC courses are designed to acquaint secondary school students with the historical development of flight, the aerospace environment, aircraft propulsion systems, and civil aviation. Leadership studies in the program are developed to include: communication skills, time management, project planning, self-discipline, and military career areas. Additionally, students are evaluated on the performance of assigned duties, personal uniform inspections, marching ability, proper performance of military drill and ceremonies, and military customs and courtesies.

College Entry Preparation **Length of Course: 18 weeks**
PPS 401 (EL) **Grade Level: 10-11**

The College Entrance Preparation course is designed to review and reinforce knowledge of content included on the Scholastic Aptitude test. In addition, the course should help students get better acquainted with the SAT and ACT, and in the process alleviate some of the anxiety with taking this important test which could result in major implications for future educational pursuit.

Career Practicum **Length of Course: 36 weeks**
PTW501, 502, 503 (GV) **Grade Level: 11-12**

The Career Practicum course is offered to students to give them the opportunity to acquire work experience and skills training through on-the-job experiences. Two important aspects of the cooperative work experience program are to help students better understand themselves through actual employment of their skills and aptitudes in real-life settings and to offer student opportunities to build confidence, self esteem, and reliability. Students are expected to make decisions, accept responsibilities, show initiative, and develop and practice interpersonal relationships in the world of work. This program extends student educational opportunities beyond the curricular, physical, and financial resources of the school.

VIRTUAL SCHOOL (Distance Learning) CLASSES

Distance Learning courses are rigorous courses offered to provide students the opportunity to take classes not ordinarily offered in a small high school. Students are expected to work independently with the support of computer assisted instruction Teacher recommendation is required.

AP Computer Science A **Grade Level: 11-12**
BCC511 (GC) **Length of Course: 36 weeks**

The Advanced Placement Program offers two computer science courses: Computer Science A and Computer Science AB. The content of Computer Science A is a subset of the content of Computer Science AB. Computer Science A emphasizes programming methodology with a concentration on problem solving and algorithm development and is meant to be the equivalent of a first-semester course in Computer Science. It also includes the study of data structures and abstraction, but these topics are not covered to the extent that they are covered in Computer Science AB. Computer Science AB includes all the topics of Computer Science A, as well as a more formal and in-depth study of algorithms, data structures, and abstraction. For example, binary trees are studied in Computer Science AB but not in Computer Science A.

Java I **Grade Level: 9-12**
BCC305 (GC) **Length of Course: 18 weeks**

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.

Java II **Grade Level: 9-12**
BCC306 (GC) **Length of Course: 18 weeks**

Programming in Java II is a one-semester course designed to teach students Java programming concepts using a structured approach. Students will develop Java applications and applets. Problem solving and program documentation will be emphasized. 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.

Music Appreciation **Grade Level: 9-12**
MUG301 (GF) **Length of Course: 18 weeks**

The music appreciation course is designed to provide students, but not limit them to, the following experiences: listening to a wide variety of musical styles, historical periods, and major thematic trends in music; interpreting the characteristics of style; comparing and analyzing the basic elements of various art forms for similarities and differences; comparing the role of music in different cultures; and understanding that music is basic to human experience.

AP German Language-DL **Grade Level: 11-12**
FLG 6140T (GD) **Length of Course: 36 weeks**

The AP German Language Course is a college level course which prepares students to communicate proficiently through three modes: interpretive (receptive communication), presentational (1-way productive communication), and interpersonal (2-way interactive communication). This course emphasizes the five domains of learning found in the DoDEA Foreign Language Standards: Communication, Cultures, Connections, Comparisons, and Communities. AP German is conducted almost entirely in German. This course involves an intensity that significantly advances student proficiency and achievement in

German. Additionally, students obtain practical cultural knowledge which enables them to interact in a variety of German speaking countries. The interactive nature of this course carries with it the expectation that students will be actively involved in all assignments and projects. Students will be assessed in all domains of learning and on major projects. Weighted grades are calculated for students completing the course and taking the AP exam. Students are expected to take the AP exam at the end of this course.

AP French Language-DL **Grade Level: 11-12**
FLS 6150T (GD) **Length of Course: 36 weeks**

The AP French Language Course is a college level course, conducted in French, which prepares students to communicate proficiently through three modes: interpretive (receptive communication), presentational (1-way productive communication), and interpersonal (2-way interactive communication). This course emphasizes the five domains of learning found in DoDEA Foreign Language Standards: Communication, Cultures, Connections, Comparisons, and Communities. This course is interactive in nature with the expectation that students be actively involved in all assignments and projects. The academic rigor for this course is high. Assessment of all domains of learning will be conducted. Students completing this course and taking the AP exam will receive weighted grades. Students are expected to take the AP exam at the end of this course.

AP Calculus BC-DL **Grade Level: 11-12**
MAC613T (GM) **Length of Course: 36 weeks**

AP Calculus BC provides a deeper understanding of the fundamental concepts and methods of single-variable calculus developed in AP Calculus AB. There is a continued emphasis on calculus applications and techniques, with the use of multiple representations including 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.

AP Statistics-DL **Grade Level: 11-12**
MAZ 6110T (GM) **Length of Course: 36 weeks**

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.

**AP Chemistry-DL
SCC612 (GS)**

**Length of Course: 36 weeks
Grade Level: 11-12**

Preparation: Successful completion of Chemistry and teacher recommendation.

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. For some students, this course enables them to undertake, as a college freshman, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses. Though our system has an open enrollment policy, students should understand that this course is designed to be a second year chemistry course, and the equivalent of a yearlong introductory, college level general chemistry course. The course requires a working knowledge of chemistry, and second-year algebra. The breadth, pace and depth of material covered exceeds the standard high school Chemistry course, as does the college-level textbook, laboratory work, and time and effort required of students. Students are expected to take the AP Chemistry Exam at the end of this course.

**AP Physics B-DL
SCP 6120T (GS)**

**Grade Level: 11--12
Length of Course: 36 weeks**

The Physics B course provides a systematic introduction to the main principles of physics and emphasizes the development of problem-solving ability. It is assumed that the student is familiar with algebra and trigonometry; calculus is seldom used, although some theoretical developments may use basic concepts of calculus. In most colleges, this is a one-year terminal course and is not the usual

preparation for more advanced physics and engineering courses. However, the B course provides a foundation in physics for students in the life sciences, pre-medicine, and some applied sciences, as well as other fields not directly related to science. The Physics B course includes topics in both classical and modern physics. Knowledge of algebra and basic trigonometry is required for the course; the basic ideas of calculus may be introduced in connection with physical concepts, such as acceleration and work. Understanding of the basic principles involved and the ability to apply these principles in the solution of problems should be the major goals of the course.

**Economics-DL
SSN 4010T (GE)**

**Grade Level: 10-12
Length of Course: 18 weeks**

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.

**Marine Biology-DL
SCZ6020T (GS)**

**Grade Level: 11-12
Length of Course: 36 weeks**

Marine Biology is designed to be an elective, introductory course to the identification and classification of organisms most common to the region in which the course is offered. Information is presented in an integrated approach with science as inquiry, science & technology, science & social perspectives, and the history & nature of science. The course integrates unifying science concepts and processes of systems, order & organization, evidence, models & explanation, change, consistency & equilibrium, and form & function. Scientific inquiry and understanding about inquiry are emphasized through practical implications and meaningful applications. Topics students study include ecological concepts of the sandy beach, rocky shore and benthic communities, seaweeds, planktonic forms, plankton and their relationship to marine life cycles, nekton, benthos, marine bacteriology, marine biological resources, and marine pollution. Additional special topics may be selected for study.

AP Microeconomics-DL
SSN 6120T (GE)

Grade Level: 10-12
Length of Course: 36 weeks

AP Microeconomics is designed to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. The course places emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. The course is fast-paced. Students will be required to complete a wide range of readings, analyze graphical and statistical information, sketch graphs, and take and outline detailed notes. Assessment strategies will mirror the AP Microeconomics Exam and provide insight into the student's ability to grasp and demonstrate knowledge in an intellectual style similar to a college classroom. The course will have an intense workload, reading schedule, and the material far exceeds that covered in a regular economics classroom. This course is the equivalent of an introductory college course in microeconomics. Students are expected to take the AP Exam at the end of this course.

AP Macroeconomics-DL
SSN 6120T (GE)

Grade Level: 10-12
Length of Course: 36 weeks

AP Macroeconomics is designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. The course places emphasis on the study of national income and price-level determination. The course develops student's familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students will be required to complete a wide range of readings, analyze graphical and statistical information, and take and outline detailed notes. The course will have an intense workload, reading schedule, and the material far exceeds that covered in a regular economics classroom. This course is the equivalent of an introductory college course in macroeconomics. Students are expected to take the AP Exam at the end of this course.

