Kaiserslautern High School

Course Selection Book

2012-2013

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DODEA GRADUATION REQUIREMENTS

Required Courses	Units
English Language Arts 9, 10, 11, 12 (2 years of ESL may be substituted for 2 years of English Language Arts.)	**4**
Social Studies (1 credit of U.S. History, 1 credit of either World History 9: Civilizations or World History, and .5 credit in U.S. Government required.)	**3**
Mathematics (Algebra I and Geometry are required. The third math credit must have a course code of 400 or above excluding Lab classes.)	**3**
Science (Biology is required and either a chemistry or physics credit is required. Physics Applications in the Community and Chemistry Applications in the Community meet the credit requirements for graduation.)	**3**
Foreign Language (A total of 2 credits in the same foreign language is required.)	**2**
Professional Technical Studies (.5 credit must be in a computer technology course.)	**2**
Physical Education: .5 Personal Fitness, .5 Lifetime Sports, .5 Physical Activity and Nutrition	**1 .5**
Fine Arts (Courses used to meet this credit must relate to visual arts, music, theater, and/or humanities.)	**1**
Health Education	**.5**
Elective Courses	**6**
TOTAL CREDITS	**26**

COURSE DESCRIPTIONS

Kaiserslautern High School is a comprehensive high school, offering a wide selection of courses in core curricular areas, professional technical education, computer science, fine arts, and foreign languages. Student demand determines whether elective courses will be scheduled during the school year.

PROFESSIONAL TECHNICAL STUDIES

One and ½ Carnegie Units of Career Education are required for graduation from a DoDDS high school. Professional technical credit can be earned by taking classes in the following DODEA Career Clusters and Pathways: Air Force JROTC, Information Support & Services, Hospitality & Tourism, Engineering & Technology, Design/Pre-Construction, and Administration & Information Support. Additional Professional Technical Education classes can be taken as credit toward earning a DODEA Career Certification or as elective credit toward graduation requirements.

AIR FORCE JROTC

Air Force JROTC I Grade Level: 9-12 Code: VEF301
Length: 36 weeks

Major Concepts/Content: The Air Force JROTC I course is designed to acquaint secondary school students with the historical development of flight and the role of the military in history. Over half of the available classroom hours are spent reviewing the development of flight from ancient legends to the space shuttle. Additionally, the role of the military throughout the history of the United States is identified. The second half of the course examines the make-up of the aerospace community and the United States Air Force. Many of the sixty hours directed to leadership studies relate directly to other school academic subjects, with cadets presenting both written and oral reports. Additionally, wearing of the uniform, Air Force U.S. customs and courtesies, and basic drill skills are introduced. Twenty percent of the curriculum is dedicated to wellness and physical fitness.

Air Force JROTC II Grade Level: 10-12 Code: VEF401
Length: 36 weeks

Major Concepts/Content: The Air Force JROTC II course is designed to acquaint students with the aerospace environment, the human requirements of flight, and the principles of flight and navigation. The course begins with a discussion of the atmosphere and weather. The study is expanded to include the planets and space beyond our solar system. Students develop an understanding of the environment, and how the environment affects flight. Discussion includes the forces of lift, drag, thrust, and weight. Students then study the human physiological requirements of flight. The year concludes with a study of the principles of flight and navigation. Leadership hours stress communication skills, time management, and cadet corps activities. Cadet corps activities include holding positions of greater responsibility in the planning and execution of corps projects. Twenty percent of the curriculum is dedicated to wellness and physical fitness.

Air Force JROTC III Grade Level: 11-12 Code: VEF501
Length: 36 weeks

Major Concepts/Content: The Air Force JROTC III course is designed to emphasize the propulsion systems of aircraft. Both reciprocal and jet engines are studied in some detail. Rocketry and spacecraft portions of the course include rocket propulsion, guidance and control, and orbits. The space travel topic includes the development, use, and future of artificial earth satellites and interplanetary probes. Leadership hours continue the emphasis on written and communication skills. Additionally, basic management skills, such as planning, directing, and controlling are introduced. Third year cadets put these skills into practice by holding key leadership positions in the cadet corps. Twenty percent of the curriculum is dedicated to wellness and physical fitness.

Air Force JROTC IV Grade Level: 12 Code: VEF601
Length: 36 weeks

Major Concepts/Content: The Air Force JROTC IV course is designed to present the primary features of civil aviation and its impact on our society careers available in the civil and military aerospace community, and descriptions and uses of modern aerospace vehicles. The civil aviation portion of the course adds to the students' basic knowledge of the aerospace industry as taught in Air Force JROTC 1. This information prepares students for the discussion on careers in aerospace. The careers portion of the course describes career options and education possibilities and provides practical advice for the new job hunter. The course concludes with a review of modern aerospace vehicles, and their uses and capabilities. Leadership hours refine the development of communication skills and top-level cadet corps jobs provide a laboratory to experiment with newly learned leadership and management skills. Twenty percent of the curriculum is dedicated to wellness and physical fitness.

BUSINESS LAB

Business & Personal Finance Grade Level: 9-12 Code: PTB301S
Length: 18 weeks

Major Concepts/Contents: Business and Personal Finance prepares students to manage their financial lives. The course sequence focuses on duties and tasks performed by individuals managing their money through spending, saving and investing in order to plan a successful financial future. 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.

ELECTRONICS LAB

Digital Electronics I Grade Level: 9-12 Code: PTE309
Digital Electronics II Length: 18 weeks each Code: PTE409

Major Concepts/Content: Digital Electronics prepares students for careers in the Science, Technology, Engineering & Mathematics industries. The course sequence focuses on duties and tasks performed by professionals in engineering and technology as well as pre-employment and employment skills. The Digital Electronics courses familiarize students with the theories, skills and technologies involved in electronics circuits and digital technology. Students will develop the technical skills necessary to continue follow-on course work in microprocessors other engineering courses. They will study electronic theory, electronic components, circuit analysis, digital number systems, logic gates and circuits, and Boolean algebra. Instructional activities will provide students with hands-on experiences using digital components and electronic circuits. Students will perform laboratory experiments and construct projects studying the properties of electricity and electronic devices while using electronic components, number systems, and logic circuits.

HEALTH SCIENCE

Health Science I Grade Level: 10-12 Code: PTH402
Length: 36 weeks

Major Concepts/Content: Health Science I prepares students for careers in the Medical industry. The course sequence focuses on duties and tasks performed by professionals in Medicine as well as pre-employment and employment skills. This course is designed to develop students' personal qualities, communication skills, and basic health care skills for application to a career in the health care profession. Students will be provided the opportunity to acquire First Aid and CPR certifications. The course integrates understanding of basic health care systems and health care careers. Also included are: applications of fundamental math principles to health care situations; understanding safe work practices as they relate to the prevention of illness or injury to clients, co-workers and self; and demonstrating understanding through written and oral practice. Instruction includes understanding disease transmission, care of infants

and children through pre-school, and care of dependent disabled and geriatric clients. Effective decision-making and problem-solving strategies will be incorporated in instructional activities.

Health Science II Grade Level: 11-12 Code: PTH502
Length: 36 weeks

Major Concepts/Content: This course builds on the content introduced in Health Science I and is designed to develop students' personal qualities, communication skills, and basic health care skills for application to a career in the health care profession. Students will be provided the opportunity to maintain First Aid and CPR certifications. Included are: applications of fundamental math principles to health care situations; understanding safe work practices as they relate to the prevention of illness or injury to clients, co-workers and self; and demonstrating understanding through written and oral practice. Instruction includes understanding disease transmission, care of infants and children through pre-school, and care of dependent disabled and geriatric clients. Effective decision-making and problem-solving strategies will be incorporated in instructional activities. ****This course is taught in a 2-period block.**

CULINARY ARTS

Culinary Arts I Grade Level: 10-12 Code: PTF401
Length: 36 weeks

Major Concepts/Content: Culinary Arts I prepares students for careers in the Hospitality and Tourism industry. The course sequence focuses on duties and tasks performed by professionals in Restaurant, Food and Beverage Service as well as pre-employment and employment skills. The Culinary Arts courses will teach the skills required for a career in the restaurant and food industry. This course usually consists of practical training in the kitchen. Students will learn knife skills and basic food preparation techniques as well as practical sanitation skills. Other topics include: sauces, soups & stocks, elements of entrée production, fundamentals of baking, pastry arts, nutrition and menu planning, dining room service, international cuisine, food preservation, purchasing and receiving, catering, and presentation & plate design. Instructional activities are provided in the classroom setting, using hands-on experiences with tools, equipment, and materials related to course content and a field environment (restaurants, food establishments. Students will be required to plan, design, and prepare foods; investigate content-related occupations; assume leadership roles and work cooperatively. ****This course is taught in a 2-period block.**

Culinary Arts II Grade Level: 10-12 Code: PTF501
Length: 36 weeks

Major Concepts/Content: Culinary Arts II prepares students for careers in the Hospitality and Tourism industry. The course sequence focuses on advanced duties and tasks performed by professionals in Restaurant, Food and Beverage Service as well as pre-employment and employment skills. The Culinary Arts courses will teach the skills required for a career in the restaurant and food industry. This course builds on the skills learned in Culinary Arts I. This course consists of practical training in the kitchen. Students will learn advanced knife skills and food preparation techniques as well as practical sanitation skills. Further advanced instruction in table service, baking, pastries, and management techniques are emphasized. Instructional activities are provided in the classroom setting, using hands-on experiences with tools, equipment, and materials related to course content and a field environment (restaurants, food establishments. Students will be required to plan, design, and prepare foods; investigate content-related occupations; assume leadership roles and work cooperatively. ****This course is taught in a 2-period block.**

Family Consumer Science

Family Consumer Science Grade Level: 9-12 Code: PTZ304
Length: 18 weeks

Major Concepts/Content: Family Consumer Science prepares students with life skills. The course sequence focuses on pre-employment and employment skills. The personal and family consumer science course is designed to provide students with basic constructs, skills, and competencies essential to living in the 21st Century. Students will explore the roles they will assume as adults and acquire skills needed in life. Included will be the importance of food selection and nutrition; quality of life; personal relationships; family living; early childhood development and conflict resolution. Hands-on exploratory experiences will

be emphasized. Students will plan, design, and construct projects and investigate content-related occupations. Cooperative learning strategies will be used in content presentations. There will be an emphasis on direct teaching of problem solving, strategic planning, and decision-making skills. Leadership roles are emphasized.

VIDEO PRODUCTION

Video Communications I Grade Level: 10-12 Code: PTV301

Length: 36 weeks

Major Concepts/Content: Video Communications I prepares students for careers in the Audio/Video Technology industry. The course sequence focuses on duties and tasks performed by professionals in communications as well as pre-employment and employment skills. The Video Communications I course for 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, 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 video communication concepts. Students will learn correct shooting 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 in which they may be interested.

Video Communications II Grade Level: 11-12 Code: PTV401

Length: 36 weeks

Major Concepts/Content: The Video Communication II course expands on the student's application of skills developed in the first course. Students will use the project-oriented approach to refine their video production techniques while exploring concepts related to, but not limited to, studio production, on-site editing, video switching, lighting, scriptwriting, computer graphics, interview techniques, and computer based digital video processing. A variety of instructional activities will be used to build on the application of video communication concepts. Activities will stress improvement and self-evaluation of video projects. Additional concepts related to the following will be reflected in the video productions: directing, interviewing, video switching, studio lighting, computer graphics/effects, advanced audio/video special effects, studio productions, and non-linear computer based editing.

CAREER PRACTICUM

Career Practicum Grade Level: 12 only Code: PTW501
PTW502

(1, 2, or 3 periods) Length: 18-36 weeks PTW503

Major Concepts/Content: Career Practicum prepares students for their future careers. The course sequence focuses on duties and tasks performed by professionals as well as pre-employment and employment skills. Career Practicum is designed to provide school-to-career experiences and training through a work practicum related to their career goal. Important aspects are to provide students an opportunity to acquire an understanding of actual employment settings utilizing their skills and aptitudes, apply problem solving skills in the work environment, develop communication techniques, utilize electronic information systems to search for career information, explore information resources, acquire learning and self-management tools, develop intrapersonal and interpersonal competencies. In addition, the exploration of different occupations will aid the students in making important career decisions. Career Practicum extends student educational opportunities beyond the curricular, physical, and financial resources of the school. Instructional activities will emphasize the community as a classroom. Every training site provides unique hands-on experiences that are related to students' particular interests. In addition students will complete job applications, participate in job interviews, prepare a resume with a cover letter, research careers utilizing the Internet as well as traditional means, complete interest and aptitude instruments, participate in career-related classroom activities and develop a career plan with input from the Career Development Coordinator, guidance counselor, and parents.

INDUSTRIAL TECHNOLOGY

Principles of Engineering Grade Level: 9-12 Code: PTE301

Length: 18 weeks

Major Concepts/Content: 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.

Engineering Design & Technology I & II (Formerly Robotics I & II) Grade Level: 10-12 Code: PTE501 PTE601

Length: 36 weeks each

Major Concepts/Content: The Engineering Design & Technology I & II introduce 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 six fields:

Electricity and Electronics: Students will study how modern industry depends on the power of electricity and electronic systems to drive the machines that control manufacturing processes. They will study and apply electrical theory and design as they progress through a series of hands-on activities.

Quality Control: Students will study the systems, tools and techniques developed to determine and measure the quality of the manufacturing processes. They will gain an understanding of the necessity of quality management and control through hands-on training and real-world simulations.

Manufacturing Processes: Students will study the technological tools and processes of today's high-tech manufacturing industries. They will use hand-operated and computer-numerical-control (CNC) machinery as they learn the skills required to engineer products for industry and consumers.

Automation and Material Handling: Students are introduced to the use of robotics in the manufacturing process and its impact on careers and production. This field examines the role that computers and robots play in manufacturing tasks. Students will gain an understanding of plant layout and the requirements that must be met to make automation feasible. They examine the many methods of conveyance between automation devices and learn how a flexible robotics system is organized to increase production efficiency.

Mechanical Systems: As students view powerful simulation software and practice with state-of-the-art equipment, they learn about the principles of fluid power, and mechanical devices, such as levers, gears, and pulleys. Students are introduced to fluid power systems that are essential to industries involved in manufacturing, construction, farming, mining, and transportation. This field provides practical hands-on experience with the industrial-grade hydraulics trainer so students can apply the knowledge they gain as they create hydraulic circuits and employ a variety of gauges, valves, actuators, and controls.

Design: Students will learn to read and create technical drawings using mechanical drafting tools and industry-standard Computer-Aided Design (CAD) software. Students will gain real-world experiences with the actual tools and methods used in today's industry.

Interdisciplinary Project: Students can participate in a culminating interdisciplinary project incorporating knowledge gained from the six fields listed above.

Engineering Drawing/CAD Grade Level: 9-12 Code: PTE303
Length: 36 weeks

Major Concepts/Content: Engineering Drawing - CAD prepares students for careers in science, technology, engineering and math. The course sequence focuses on duties and tasks performed by professionals in engineering and engineering technology as well as pre-employment and employment skills. This course is recommended for students interested in engineering or related careers and/or aspiring to become engineers, architects, and engineer technicians. Engineering drawing is a Computer Aided Drawing and Design (CAD) course designed to provide students with instruction in computer graphic skills and design fundamentals. Students will learn the use of a CAD system for two-dimensional drawing and three-dimensional modeling. Through the use of the Internet students will explore the wide range of CAD technologies and applications. Engineering Drawing will cover a thorough introduction to the fundamental concepts and principles of technical drawings. This will help the student to communicate with others by being able to draw as well as interpret drawings and sketches. The student will complete drawing and learn concepts from the following areas: but is not limited to, pictorial, multi-view, geometric construction, sectional views, dimensioning, threads and fasteners, and assembly drawings. Instructional activities are provided in the pre-engineering laboratory, using hands-on experiences with equipment and materials related to course content. Students will be required to plan and produce projects. They will develop solutions to problem solving activities, present ideas and information orally and in writing. Students will investigate content-related occupations and assume leadership roles and work cooperatively.

Architectural Drawing/CAD Grade Level: 10-12 Code: PTE305
Length: 36 weeks

Major Concepts/Content: Architectural Drawing and Design prepares students for careers in the Architecture industry. The course sequence focuses on duties and tasks performed by professionals in Architecture as well as pre-employment and employment skills. The course is designed to provide students with instruction and skills in computer aided drawing (CAD) fundamentals commonly used in the production of residential and commercial buildings. The course includes the study of the basic fundamentals of design, and the skills related to the production of architectural designs. The content includes, but is not limited to, designing interior and exterior elements of structures in both two-dimensional and three-dimensional representations. Students will prepare presentations of designs created using CAD technology. It is recommended that aspiring architects, designers, engineers, CAD technicians, interior decorators take this course. This course may be used as an Applied Engineering Technology major as part of the School-to-Work transition program. **This course may count for either Professional Technical or Computer credit.**

Applications of Architectural Design/CAD Grade Level: 10-12 Code: PTE405
Length: 36 weeks

Major Concepts/Content: The applied architectural design course is designed as a capstone project. Emphasis is placed on applying life and educational experiences to architectural design. The team approach to problem solving is emphasized. The content includes, but is not limited to, determining purposes, uses, and aesthetics of structures, the analysis of various architectural designs, apply principles of environmental and energy efficient design, and use current construction materials and practices. Students will prepare and present multimedia presentations using a variety of software and technologies. This is a real or simulated design project meeting the needs of actual clients. This course is the culmination of the Architectural, Engineering, and Construction (AEC) curriculum and is intended as an opportunity for students to utilize all the skills acquired through the AEC strand of courses. This course is recommended for aspiring architects, designers, engineers, CAD technicians, and interior decorators. **This course may count for either Professional Technical or Computer credit.**

Engineering Design/Development Grade Level: 10-12 Code: PTE603
Length: 36 weeks

Major Concepts/Content: The Engineering Design and Development course forms the capstone project for the Pre-Engineering curriculum. In this course, students will work in teams of two to four individuals to design and construct the solution to an original engineering problem. Each design problem is taken from a

database of design problems offered to all DoDEA students enrolled in the course. As students work on their capstone project they will develop technical writing skills and use a variety of CAD, CAM, GIS, fabrication, manufacturing, and robotics technologies. Students will also maintain an engineering journal and develop a portfolio. This course is the culmination of the pre-engineering curriculum and is intended as an opportunity for students to utilize all the skills acquired through the pre-engineering strand of courses. **This course may count for either Professional Technical or Computer credit.**

COMPUTER EDUCATION

½ Carnegie Unit of Computer Education is required for graduation from a DoDDS high school. Additional computer classes may be taken as professional technical or elective credit.

Computer Applications I Grade Level: 9-12 Code: PTI301
Length: 18 weeks

Major Concepts/Content: 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. The Computer Applications I course includes modules with core requirements for word processing, database, spreadsheet, presentation software, and information literacy skills. After completion of the required core modules, based upon interest or need, a student may select any of the other modules. Students will have the opportunity to test out of any core module. Instruction will be provided in a lab utilizing individualized instruction and electronic learning services.

Word Processing Software Applications Grade Level: 9-12 Code: PTI303
Length: 18 weeks

Major Concepts/Content: Word Processing Software Applications 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 will use word processing software to demonstrate a thorough understanding of inserting and modifying text, creating and modifying paragraphs, formatting documents, managing documents, working with graphics, and workgroup collaboration. Students successfully completing this course will be **eligible** to take at least one of the user or specialist exams for word processing software certification. **This course may count for either Professional Technical or Computer credit.**

Presentation Software Applications Grade Level: 9-12 Code: PTI304
Length: 18 weeks

Major Concepts/Contents: Presentations Software Applications provides students with the opportunity to develop professional level skills in presentations software. Students will 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. Students successfully completing this course will be **eligible** to take at least one of the user or specialist exams for presentation software certification. **This course may count for either Professional Technical or Computer credit.**

Database Software Applications Grade Level: 10-12 Code: PTI305
Length: 36 weeks

Major Concepts/Content: 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 will 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. Students successfully completing this course will be **eligible** to take at least one of the user or specialist exams for database certification. **This course may count for either Professional Technical or Computer credit.**

Spreadsheet Software Grade Level: 10-12 Code: PTI306

Applications Length: 18 weeks

Major Concepts/Content: Spreadsheet Software Applications provides students with the opportunity to develop professional level skills in spreadsheet software. Students will 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. Students successfully completing this course will be eligible to take at least one of the user or specialist exams for spreadsheet software certification. **This course may count for either Professional Technical or Computer credit.**

Digital Imaging Grade Level: 9-12 Code: PTI307
Length: 18 weeks

Major Concepts/Contents: Digital Imaging provides students with the opportunity to develop professional level skills in imaging software. Instruction will be provided in a lab utilizing individualized instruction and electronic learning services. Students will 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. Students successfully completing this course will be eligible to take at least one of the user or specialist exams for imaging software certification. **This course may count for either Professional Technical or Computer credit.**

Digital Publishing Grade Level: 9-12 Code: PTI308
Length: 18 weeks

Major Concepts/Content: Digital Publishing is a course designed for students with an interest in desktop publishing. This course will provide training in the software for personal use and employment. Students completing this course may be eligible to take an Adobe certification exam. Instructional activities will be provided in a classroom or a lab utilizing individualized instruction and online resources will be provided in a lab environment. Simulation projects, appropriate support software, internet activities and alternative resources may be used. Students will primarily use Adobe InDesign software while learning the following modules: Basic Graphic and Layout Designs; Graphic and Layout Design; Imaging Process and Creating Publications. **This course may count for either Professional Technical or Computer credit.**

Digital Media Grade Level: 9-12 Code: PTI405
Length: 18 weeks

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

Web Design Grade Level: 10-12 Code: PTI407
Length: 18 Weeks

Major Concepts/Content: In the Web Design course, 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. 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 may count for either Professional Technical or Computer credit.**

Computer Animation Grade Level: 10 -12 Code: PTI409
Length: 36 Weeks

Major Concepts/Content: The Computer Animation course is designed to provide students with the instruction and skills to create digital illustrations, modeling and animation, character animation, digital motion imagery, and game design. The content includes, but is not limited to, 3D modeling, materials and textures, rendering, and computer animation. Students will also create, record, and edit digital audio, video, and photographic imagery. This course will utilize software programs to develop animation, morphing, 3-D graphics, and virtual reality projects. It is recommended that aspiring graphic designers, computer animators, electronic game designers, engineers, CAD technicians, architects, interior decorators take this course. This course may be used as an Applied Engineering Technology major as part of the School-to-Work transition guidelines. **This course may count for either Professional Technical or Computer credit.**

Home Networking Grade Level: 11-12 Code: PTI501
Length: 36 weeks

Major Concepts/Content: This course prepares students to become network engineers and prepares them for entrance into a technology career field or for further technology study. The program includes a complete range of basic and advanced networking concepts - from pulling cables through such complex concepts as subnet masking rules and strategies. Successful completion of this course and the Business Networking course should prepare the student to pass the Cisco Certified Network Associate (CCNA) examination. **This course may count for either Professional Technical or Computer credit.**

Business Networking Grade Level: 11-12 Code: PTI601
Length: 36 weeks

Major Concepts/Content: This second course prepares students to become network engineers and prepares them for entrance into a technology career field or for further technology study. This course includes field experience in network problem solving. Successful completion of this course (and Home Networking) should qualify the student to pass the Cisco Certified Network Associate (CCNA) exam. **This course may count for either Professional Technical or Computer credit.**

Computer Service & Support Grade Level: 9-12 Code: PTI309
Length: 36 weeks

Major Concepts/Content: Computer Service and Support prepares students for careers in the Computer industry. The course sequence focuses on duties and tasks performed by professionals in Computer installation and repair occupations, as well as pre-employment and employment skills. This program is intended to prepare students for computer support careers. Students enrolled in this course will gain practical experience in assembling a computer system, installing an operating system, troubleshooting computers and peripherals, and using system tools and diagnostic software. They will develop skills in computer networking and resource sharing. Students explore wireless technologies (e.g., Bluetooth, Wi-Fi) and create and configure a network. In addition, students will explore the relationships between internal and external computer components. Customer service skills and career plans will be developed. Upon successful completion of the course, students may qualify to take the A+ certification exam. Students will be trained to use tools, electronic test equipment, and software to analyze and solve PC problems. This course provides students with training in procedures for optimizing and troubleshooting concepts for computer systems and subsystems. Emphasis is placed on technical proficiency, skill-building, and workplace readiness. During the course, students will analyze defective equipment, determine corrective measures, and make the equipment operational if possible. Students will build a PC as part of the requirements of the course. **This course can be taken for Career or Computer credit.**

***Special Note: The following programming classes are offered via Distance Education with instructors in remote locations who stay in contact with students using communication software. A local facilitator monitors students' progress. These courses can be taken for Computer credit ONLY.**

Java I DL (1st Semester) Grade Level: 10-12 Code: PTP3050T

Length: 18 weeks

Major Concepts/Content: Programming in Java is a one-semester course designed to teach students Java programming concepts using a structured approach. Students will develop Java applications and applets. Problem solving and program documentation will be emphasized. 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 DL (2nd Semester) Grade Level: 10-12 Code: PTP3060T
Length: 18 weeks

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

AP Computer Science A DL Grade Level: 11-12 Code: PTP5110T
Length: 36 weeks

Major Concepts/Content: The course description for the advanced placement courses published by College Board is to be used for the course. 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 college course in Computer Science. It also includes the study of data structures and abstraction. A large part of the course is built around the development of computer programs or parts of programs that correctly solve a given problem. The course also emphasizes the design issues that make programs understandable, adaptable, and, when appropriate, reusable. At the same time, the development of useful computer programs and program modules is used as a context for introducing other important concepts in computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, and the study of standard algorithms and typical applications. In addition, an understanding of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course. **Students are expected to take the AP exam in May.**

FINE ARTS

One Carnegie Unit of Fine Arts Education is required for graduation from a DoDDS high school. Students my earn Fine Arts Education credit by taking classes in **Art, Drama, Music, and/or Humanities.** Additional Fine Arts Education classes can be taken as elective credit toward graduation requirements.

ART

Fundamentals of Art Grade Level: 9-12 Code: ARE401S
Length: 18 weeks

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

Ceramics Grade Level: 9-12 Code: ARE401S
Length: 18 weeks

Major Concepts/Content: The ceramics course is designed to provide a studio-oriented experience with the study of clay. Students explore the properties of clay by making utilitarian and sculptural forms that emphasize form, design, and craftsmanship. The course includes instruction in clay applications, in kiln management, and in the historical role of ceramics in our culture. Instructional activities will provide practice in using various materials, tools, and equipment. Students will produce a series of ceramic pieces that demonstrate knowledge of the basic methods of ceramic construction and use of the pottery wheel. Works by several outstanding ceramic artists and/or potters of the twentieth century will be discussed.

Drawing Grade Level: 9-12 Code: ARW401S
Length: 18 weeks

Major Concepts/Content: The drawing course is designed for students who want to explore drawing as a means of self-expression. The course activities develop students' skills in the techniques and styles of drawing media. Students explore the two- and three-dimensional aspects in drawing and develop personal expression. Instructional activities will provide practice in using a variety of drawing tools and materials. Students will create drawings that use several widely recognized techniques, such as contour and gestures, and will demonstrate the ability to use several drawing media effectively. Techniques for preserving and presenting drawings will be taught in the course. Students will be required to demonstrate the proper care and storage of drawing tools and materials. Projects will be evaluated on Originality, craftsmanship, effort, time utilization, and quality with consideration given to the individual or student's talent, experience, and/or limitations. Both written and oral tests will be used to evaluate knowledge of course content.

Painting Grade Level: 10-12 Code: ARP401S
Length: 18 weeks

Major Concepts/Content: The painting course is designed for students who want to develop skills in one or more painting media. The media may be oils, acrylic, watercolor, or tempera. Students will receive instruction in the techniques and history of various painting styles. Projects and exercises will help students develop the skills and understanding necessary for personal expression. Emphasis will be placed on color theory, painting techniques, and other skills appropriate to the medium. Instructional activities will provide practice in using a variety of painting tools and materials. Students will produce paintings in a personal style and will be able to demonstrate some techniques used in styles other than their own. Units that focus on identifying selected paintings by the movements with which the paintings are associated and on identifying painters who are representative of the major styles or periods of painting will be included. Students will be required to demonstrate the proper use and care of painting tools and materials, Student projects will be evaluated on originality, craftsmanship, effort, time utilization, and quality with consideration given to the individual or students' talent, experience, and/or limitations. Both written and oral tests will be used to evaluate knowledge of course content.

Computer Art Grade Level: 9 -12 Code: ARC301S
Length: 18 weeks

Major Concepts/Content: 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. Students will create and print original black and white and color art works. It is required to show knowledge of how to set up, access, and use computer programs for this class.

AP Studio Art - Drawing Grade Level: 11-12 Code: ARA613
Length: 36 weeks

Major Concepts/Content: The AP Studio Art Drawing class is an intensive one-year course of college-level study that addresses broad issues of drawing and media. Some of these drawing issues include light and shade, line quality, rendering of form, composition, surface manipulation, and illusion of depth. Many

works of painting, printmaking, and mixed media, as well as abstract, observational, and inventive works, may qualify. The range of marks used to make drawings, the arrangement of those marks, and the materials used to make the marks are endless. Students will explore the elements of art (color, value, line, shape, form, texture and space.) and the possibilities therein artists use to express themselves. The principles of design (balance, contrast, proportion, pattern, rhythm, emphasis, unity, and variety) help guide artists in making decisions about how to organize the elements on an image plane in order to communicate content. Students are expected to take the AP exam at the end of the course. **A portfolio is submitted in the spring as the AP Exam requirement. This course is for advanced students only.**

AP Art History Grade Level: 11-12 Code: ARA611
Length: 36 weeks

Major Content/Concepts: The AP Art History course is a college level course designed to give a chronological survey of architecture, painting, sculpture, and photography of western and non-western cultures. The course begins with prehistory and concludes with post-modernism. Specific works of art from throughout the world are introduced so student can gain a deep understanding of the ideas and concepts that unite the art of diverse cultures and time periods. Comparative analysis of works of art is used to spark class discussion, provide material for written assignments, and to evaluate the student's ability to grasp the concepts discussed in the classroom. The AP Art History course teaches students to understand works of art within their historical context by examining issues such as politics, religion, patronage, gender, function, and ethnicity. The course teaches students to understand works of art through both contextual and visual analysis. Students expressing an interest in the program are introduced to the requirements and expectations and the level of commitment necessary to succeed in the class. Students who have a strong desire to learn about the visual arts and students with a keen interest in history may choose to enroll in this class. Students will be expected to engage in higher order thinking skills in discussions and essays as they search for clues behind the art of the people from a variety of the world's cultures. **Students are expected to take the AP exam in the spring.**

HUMANITIES

Humanities Grade Level: 10-12 Code: HUH401S
Length: 18 weeks

Major Concepts/Content: The humanities course is designed to be an integrated study of history, literature, language, philosophy, the visual arts, theatre, dance, and music. Emphasis is placed on critical thinking, creativity, and the rights and responsibilities of the individual in a society. Students explore aspects of human behavior and human ideals. Instructional activities will be interdisciplinary in focus, drawing content examples, and resources from a variety of curriculum areas. Emphasis is placed on the arts, including theater, the visual arts, dance music, architecture, film, and television. Activities also emphasize the cultural resources of the host nation and the diverse cultures where DoDDS schools are located. The course will provide opportunities for individuals to explore ethical and moral issues.

Drama-Theater Grade Level: 9-12 Code: DRA301S
Length: 18 weeks

Major Concepts/Content: The drama course is designed to give the students opportunity to experience drama as a significant and rewarding activity and to enable students to demonstrate knowledge of the historical background of drama. The content includes, but is not limited to, recognition of the different genres of drama (tragedy, comedy, farce, melodrama, musical) and the elements of playwriting; knowledge of the different historical periods of drama and acting; knowledge of the work of important dramatists; understanding of the importance of drama as a reflection of society (the influence of cultural, literary, religious, and political forces upon drama); recognition of drama as a self-rewarding activity that involves the identification of the unique worth of the individual, the motivation behind human behavior; and the dynamics of interpersonal relationships. When dramatic literature is being studied, instructional activities will be provided in a general classroom setting. Student activities and experiences will include, but will not be limited to, selecting and preparing material for a performance; rehearsing for a performance; performing for a class or public group; practicing character development, mime, solo, duet,

and ensemble acting; participating in full-length plays; creating and applying makeup; building sets; stage managing and directing; managing props; selecting and creating costumes; voice building and projection; improving enunciation and pronunciation, and control of body movement; writing scripts for a production; studying and interpreting the works of prominent dramatists from Aeschylus to the present time; studying the effects of cultural, national, religious, and social influences upon drama through the ages; and studying the social and philosophical impact of drama on societies.

Art Appreciation Grade Level: 9-12 Code: ARA302S
(Film Appreciation) Length: 18 weeks
Major Concepts/Content: The art appreciation course is designed for students who want a broad introduction to the world of film. The course includes a brief overview of the major styles and periods of film. Emphasis will be placed on understanding and relating movies to the environment and time in which they were created. Students will compare selected films with others of the same time period, demonstrate the use of basic vocabulary for criticism, and identify the media and processes employed in significant films.

MUSIC

Concert Band Grade Level: 9-12 Code: MUI302
Length: 36 weeks
Major Concepts/Content: This band course is designed to acquaint students with **intermediate to advanced** instrumental music skills which include, the following content: intermediate to advanced level sight-reading skills; discrimination of pitch; 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; performing a variety of good musical repertoire; and listening skills development. Instructional activities will include the following processes: demonstrating melodic and rhythmic sight-reading patterns; playing, at sight and independently, musical passages in low, middle, and upper registers; demonstrating knowledge in the use and care of the instrument; demonstrating playing in tune; performing duple- and triple-meter music: emphasizing measure unit with accent; following critical markings of musical scores; performing independently all major and minor scales; and responding correctly to melodic and rhythmic aural dictation exercises.

Symphonic Band Grade Level: 9-12 Code: MUI303
Length: 36 weeks
Major Concepts/Content: This band course is designed to acquaint students with **advanced** instrumental music skills. The content includes, but is not limited to, the following: the interpretation and analysis of musical scores; the application of musical nuances in playing from a score; independent performance of all major and minor scales; advanced rhythm patterns; performance as a soloist and in small and large group ensembles; a variety of music repertoire, including style, periods, forms, electronic music; intermediate to advanced level sight-reading exercises; and introduction to computer/synthesizer musical composition. Instructional activities will be provided through the following processes: using daily sight-reading exercises during regular full-group rehearsals; practicing aural dictation and ear-training; improvising to a given chord progression; playing in tune; performing as soloist and in small and large group ensembles; playing a wide variety of concert and jazz repertoire; training in, and the development of, good practice habits; and training in the basics of electronic music.

Jazz Ensemble Grade Level: 10-12 Code: MUI304
Length: 36 weeks
Major Concepts/Content: The jazz ensemble course is designed to acquaint students with jazz music skills. The content includes, but is not limited to, the following concepts: interpretation and analysis of musical scores; application of jazz musical nuances in playing from a musical part; improvisation; advance rhythm patterns; performance as a soloist and in small and large group ensembles; a variety of music

repertoire such as style, periods, and forms; and sight-reading exercises. Instructional activities will be provided through the following processes: using daily sight-reading exercises during regular full-group rehearsals; practicing aural dictation and ear-training; improvising to a given chord progression; playing in tune; performing as a soloist and in small and large group ensembles; playing a wide variety of jazz and big-band repertoire; training in, and the development of, good practice habits; and training in the basics of jazz harmony.

Piano I Grade Level: 9-12 Code: MUS303
Length: 18 weeks

Major Concepts/Content: The Piano courses are designed to develop students' music and keyboard skills. The content includes, but is not limited to, refining listening skills, reading and writing notation in bass and treble clefs; reading, writing, and playing more complex rhythm concepts and patterns, constructing major and minor scales with arpeggiated triads and dominant seventh chords played in both hands; playing in varied examples of duple and triple meter; playing technically advanced melodies to enhance left- and right-hand independence, playing varied accompaniment styles and duets; and experimenting with more complex examples of classical and contemporary piano repertoire. Instructional activities in Piano will include, but will not be limited in scope to demonstrating knowledge of musical elements and keyboard technique through reading/playing scale and rhythm patterns, and listening to examples of multiple piano styles and forms from different historical periods and composers.

Chorus Grade Level: 9-12 Code: MUV302
Length: 36 weeks

Major Concepts/Content: Chorus is designed to provide students, but not limit them to, the following vocal musical learning experiences: 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 no secular music, singing with keyboard and other instrumental accompaniment, and participating in public performances and musical productions.

FOREIGN LANGUAGE

Two Carnegie Units of the same Foreign Language are required for graduation from a DoDDS high school.

FRENCH

French I Code: FLF301 Grade Level: 9-12
German I Code: FLG301 Length: 36 weeks
Spanish I Code: FLS301

Major Concepts/Content: The foreign language I course is designed to teach students to pronounce and discriminate among the various vowel and consonant sounds and respond to and to imitate authentic patterns of intonation, rhythm, and pronunciation. Students learn to give simple oral and written information by using appropriate learned vocabulary, word order, and grammatical forms, and to read silently and aloud with comprehension. The major oral and written linguistic principles presented include the following: pronunciation and recognition of foreign language sounds; formation of affirmative, negative, and interrogative sentences; usage of articles and adjectives to correctly modify nouns; conjugation of various regular and irregular verbs; usage of the present, present progressive, future, preterit, and imperfect tenses; usage of comparative, superlative, demonstrative, and possessive adjectives; formation of possession; usage of adverbs; and usage of direct and indirect object pronouns. Various short stories, essays, simple readers, magazines, newspapers, filmstrips, films, slides, videos and computer programs, that are representative of the culture of the different foreign language speaking countries, are used.

French II Code: FLF401 Grade Level: 9-12

German II Code: FLG401 Length: 36 weeks
Spanish II Code: FLS401

Major Concepts/Content: The foreign language II course is designed to provide activities, projects, and experiences that enable students to appreciate and value the host nation's (or target language) culture, Students are also made aware of the value of foreign language study. Career opportunities are analyzed and students learn that the knowledge of a second language can be a useful tool in international, economical, and social situations. The major linguistic principles and language skills covered in level II include the following: usage of singular and plural nouns and interrogative, definite, indefinite, demonstrative and possessive adjectives; identifying and using the active voice in the indicative mood; identifying and using the imperative, the future tense, all forms of the past tense, progressives, and the subjunctive mood; identifying and using subject pronouns, direct object pronouns, indirect object pronouns, and the emphatic, reflexive, interrogative, demonstrative, and relative pronouns; identifying and using the most common prepositions; identifying and using comparison of adjectives; and identifying and using the formation of adverbs. Students should also be familiar with short stories, essays, magazines, simple readers, newspapers, filmstrips, films, slides, videos, and computer programs that are representative of the target language and culture. L-8.The content of the foreign language, level II course includes teaching students to follow specific directions given in the target language, and to Understand main ideas after listening to presentations on familiar topics. Students learn to speak in the target language using basic sentence patterns correctly, read a variety of materials in the target language, and demonstrate writing skills in the target language.

French III Code: FLF501 Grade Level: 9-12
German III Code: FLG501 Length: 36 weeks
Spanish III Code: FLS501

Major Concepts/Content: The foreign language III course is designed to continue the teaching of interest, sensitivity, and appreciation for the host nation or target language culture. Students continue learning to value the broadened career opportunities open to those who have knowledge of a second language and culture. In foreign language III, students review and reinforce grammatical principles learned in foreign language II. Listening, speaking, reading, writing, and critical thinking skills become more spontaneous, and fluency in all skills is emphasized. The art of translating, interpreting, and analyzing information and concepts is stressed. Students are encouraged to think in the target language. Instructional activities for levels I and II provided emphasis on listening comprehension and speaking skills. In level Ill emphasis will be placed on reading skills. Students will be encouraged to increase their vocabularies in order to develop increased reading skills and to be able to analyze written information and concepts. Experience in reading will be broadened so that students will be able to read a variety of materials such as essays, short stories, newspapers, and magazine articles in the target language. Activities for cultural awareness will be reinforced.

French IV Code: FLF601 Grade Level: 11-12
German IV Code: FLG601 Length: 36 weeks
Spanish IV Code: FLS601

Major Concepts/Content: The foreign language IV course is designed to continue reviewing and reinforcing all previously presented foreign language concepts and grammar. Students demonstrate self-reliance and proficiency in using proper grammar and syntax of the foreign language. Emphasis will be placed on reading and writing skills. Students read literature, magazines, newspapers, and a variety of other host nation/target language materials. They use the host nation/target language for creative writing. Plays, films, and videos are viewed in the host nation/target language. Critical writings of material viewed are required. Fluency in speaking the language and in the art of translating is continually stressed. Instructional activities will center on perfecting the four skills: listening, speaking, reading, and writing in the host nation/ target language will be emphasized. Proficiency will be required in all four skills. Students will synthesize elements of sound-, syntax-, and vocabulary building in taking complex dictation and in manipulating and refining phonological skills, Writing short compositions and demonstrating creative writing skills using correct syntax will be fundamental. Activities for cultural awareness will constantly be encouraged.

AP French Language Code: FLF615 Grade Level: 11-12

AP German Language Code: FLG614 Length: 36 weeks
AP Spanish Language Code: FLS615

Major Concepts/Content: The AP Foreign Language Course is a college level course, conducted in the language, 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. AP Foreign Language is equivalent to fifth and sixth semester college work (3rd year college) such as found in university level Foreign Language Composition and Conversation courses. The 5 domains of learning (Communication, Cultures, Connections, Comparisons, and Communities) involve the skills of listening, speaking, reading, writing, and developing cultural awareness appropriate to this level of coursework. Students will gain strong proficiency and integrate their language skills. Authentic materials and resources are used along with the required text for AP Foreign Language. **Students are expected to take the AP exam at the end of this course.**

French V Code: FLF602 Grade Level: 11-12
German V Code: FLG602 Length: 36 weeks
Spanish V Code: FLS602

Major Concepts/Content: The foreign language V courses provide special projects and activities for independent study. Students read and write reports on the different classical works written in the host nation/target language. Students are encouraged to write original stories, poems, and essays in the target language. They also view films, videos, plays, filmstrip/cassette sets, and other materials about the host nation's culture, spoken in the target language. When using the computer for writing skills, compositions, and independent study, first drafts are typed, polished, corrected, and modified before printing the final, finished product. Students are encouraged to interact and use the language with native speakers.

French VI Code: FLF603 Grade Level: 11-12
German VI Code: FLG603 Length: 36 weeks
Spanish VI Code: FLS603

Major Concepts/Content: The Year VI foreign language course begins the advanced stage of involvement in the target language study. The student develops and refines oral proficiency skills in order to be able to communicate in a variety of situations with a high degree of accuracy and fluency. In addition, reading and writing skills are expanded to include a variety of literary genres and written experimentations. The student also acquires a refined cultural understanding to function appropriately in multi-cultural settings. Students are encouraged to interact with native speakers.

LANGUAGE ARTS

Four Carnegie Units of Language Arts are required for graduation from a DoDDS high school.

Language Arts 9 Grade Level: 9 Code: LAE301
Length: 36 weeks

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

Honors Literature 9 Grade Level: 9 Code: LAE371
(With Honors World History 9) Length: 36 weeks
Major Concepts/Content: 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. Students will receive a grade in both English and World History.

Language Arts 10 Grade Level: 10 Code: LAE401
Length: 36 weeks
Major Concepts/Content: The Language Arts 10 course is designed to strengthen students' skills in listening, speaking, writing, literature, and language. The content includes, but is not limited to, outlining or mapping main ideas and details of information received aurally or through research; using vocabulary and sentence structure appropriate to the listener and the situation; understanding the importance of speech in influencing the course of events in a democratic society; using interviewing skills; using parliamentary procedure skills; using formal debating skills; refining test-taking skills to meet secondary and post-secondary demands; writing a paraphrase, summary, or precise; writing compositions for newspaper publication; writing a short paper using research techniques; selecting appropriate sources of information for the topic; understanding and explaining the type of conflict in a given literary selection (psychological, social, environmental); experiencing a wide range of literary forms (e.g., short stories, novels, non-fiction, poetry, drama); using the media center research facilities; and reading self-selected books to help students learn to view reading as a useful and pleasurable activity.

Honors Literature 10 Grade Level: 10 Code: LAE471
(With Honors World Hist. 10) Length: 36 weeks
Major Concepts/Content: 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. Instructional activities will be provided using the content of World History. Students will read and critically respond to a wide spectrum of challenging literary selections that mirror the cultures, themes and times of the period from 1500 to the present. Students will conduct in-depth research on topics relative to major historical events, people, and regions. Many of the learning activities will culminate in shared products for Social Studies and English. Students will receive a grade in both English and World History.

Language Arts 11 Grade Level: 11 Code: LAE501
Length: 36 weeks
Major Concepts/Content: The Language Arts 11 course is designed to strengthen students' skills in listening, speaking, writing, literature, and language. The content includes, but is not limited to, developing an increasingly comprehensive vocabulary in conversation and discussion; developing small group and large group discussion skills; inferring conclusions from a series of oral statements; respecting

the presence of dialects and regional variations in speech; writing essays responding to social, political, and literary concepts; writing resumes; writing compositions of more than one paragraph using narration, exposition, and/or description; developing individual criteria for the aesthetic appreciation of literature; recognizing and understanding the use of literary and stylistic devices; dramatizing literature; experiencing a wide range of literary works written in the United States by writers from the major ethnic groups in the U.S. population, including both classic and modern works; using the media center research facilities; and reading self-selected books to help students learn to view reading as a useful and pleasurable activity.

Language Arts 12 Grade Level: 12 Code: LAE601
Length: 36 weeks

Major Concepts/Content: The Language Arts 12 course is designed to strengthen students' skills in listening, speaking, writing, literature, and language. The content includes, but is not limited to, recognizing how continued development of communication skills can enhance one's future career and leisure activities; using communication skills in preparing for career choices; using the research skills necessary to meet the demands of post-secondary classes; using computer technology, where hardware is available, as an aid in writing compositions; writing in a clear and personal style; responding to literary masterpieces which are the common heritage of all people; engaging in perceptive reading and critical analysis of English and world literature; engaging in discussions of philosophical questions as revealed in literary works; and using the media center research facilities.

AP English Language and Composition Grade Level: 11, 12 Code: LAC614
Length: 36 weeks

Major Concepts/Content: An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. The college composition course for which the AP Language and Composition course substitutes is one of the most varied in the curriculum. As in the college course, its purpose is to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. College writing programs recognize that skill in writing proceeds from students' awareness of their own composing processes: the way they explore ideas, reconsider strategies, and revise their work. This experience of the process of composing is the essence of the first-year writing course, and AP Language and Composition emphasize this process, asking students to write essays that proceed through several stages or drafts, with revision aided by teacher and peers in preparation for the AP exam in the spring. **Students are expected to take the AP exam to complete this course.**

AP English, Literature, and Composition Grade Level: 11, 12 Code: LAL613
Length: 36 weeks

Major Concepts/Content: An AP English course in Literature and Composition should engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students should deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Reading in an AP course should be both wide and deep. These courses include the in-depth reading of texts drawn from multiple genres, periods, and cultures. In their AP course, students also read works from several genres and periods-from the sixteenth to the twentieth century-but, more importantly; they should get to know a few works well. They should read deliberately and thoroughly, taking time to understand a work's complexity, to absorb its richness of meaning, and to analyze how that meaning is embodied in literary form. In addition to considering a work's literary artistry, students should consider the social and historical values it reflects and embodies. The approach to such close reading involves the following elements: the experience of literature, the interpretation of literature, and the evaluation of literature. All three of these aspects of reading are important for an AP course in English Literature and Composition. Moreover, each of the three aspects of reading corresponds to an approach to writing about

literary works. Writing to understand a literary work may involve writing response and reaction papers along with annotation, free writing, and keeping some form of a reading journal. **Students will prepare to take the AP exam in the spring.**

MATHEMATICS

Three Carnegie Units of Mathematics (see graduation requirements on page 1) are required to meet DoDDS graduation requirements.

Algebra I Grade Level: 9-12 Code: MAA301
Length: 36 weeks

Major Concepts/Content: This course may be the most common entry-level course for students who have had a rich and varied middle level mathematics program. It expands upon basic algebraic concepts previously acquired and integrates those principles with everyday life. The processes of problem solving, reasoning, communication and making connections are emphasized. Students will use formulas, functions, and equations to describe and clarify relationships. Students will learn how to write and translate expressions into mathematical form, solve first and second degree equations, use the concept of a function to model real-world phenomena.

Algebra I Lab Grade Level: 9-12 Code: MAA305
Length: 36 weeks

Major Concepts/Content: This course will support and reinforce the basic algebraic concepts taught in the Algebra I, 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 develop their reasoning, representation, connections, and communication skills. **This class must be taken concurrently with Algebra I. A teacher recommendation and/or a qualifying standardized test score are required. Students only receive elective credit for this support class.**

Geometry Grade Level: 10-12 Code: MAG401
Length: 36 weeks

Major Concepts/Content: This course is designed to develop and promote student reasoning and problem solving involving geometric concepts and properties. Topics of study will include deductive reasoning using points, lines, and planes; segments, angle 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. Instructional activities include teaching students to plan, organize, and complete various forms of proofs using deductive reasoning. This course involves inductive reasoning, extended projects, classroom presentations by students, open-ended investigations, and written justification by students of the solution to the problems. Cooperative learning techniques and appropriate technology should be utilized throughout the course. Students should have access to calculators at all times.

Geometry Lab Grade Level: 10-12 Code: MAG405
Length: 36 weeks

Major Concepts/Content: The Geometry support class is designed to provide a developmental approach to the understanding of algebraic and geometric concepts already acquired, and to integrate the algebraic and geometric principles learned to real-life situations. This course is offered for students in addition to the regular class, as a support. Concepts are taught while concurrently reinforcing connections from algebra to geometry and geometry to algebra, which are integrated throughout the class. **This class must be taken concurrently with Geometry. A teacher recommendation and/or a qualifying standardized test score are required. Students only receive elective credit for this support class.**

Discrete Mathematics Grade Level: 11-12 Code: MAZ501
Length: 36 weeks

Major Concepts/Content: This is an introductory course in discrete mathematics. By design, it shows a different view of mathematics than 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 for example: 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?

Algebra II Grade Level: 10-12 Code: MAA401
Length: 36 weeks

Major Concepts/Content: This course engages students in advanced algebraic concepts through the study 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. Students will be involved in communicating ideas trough conjecture and validation of thinking involving linear and quadratic equations, and polynomial and rational functions. Included will be the use of technology and calculators to explore mathematical patterns and graphs as well as many methods of solving equations. Students will use properties, models, and transformations in interesting, authentic real-life applications. Students will be engaged in cooperative groups, whole-class settings, or individually to reinforce concepts in algebra, geometry, sequences, series, probability, and statistics. Students should have access to calculators at all times.

Math Analysis Grade Level: 11-12 Code: MAD501
Length: 36 weeks

Major Concepts/Content: This course will involve students in units and topics of study of operations with functions and equations, circular functions, vectors, applications of matrices, complex and polar coordinates, recursion, advanced proof ideas, rates and areas, statistical inference, 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.

AP Calculus AB Grade Level: 11-12 Code: MAC612
Length: 36 weeks

Major Concepts/Content: AP Calculus AB is a college-level course that differs from a high school calculus course in terms of depth of coverage and time commitments for study. The content is organized to emphasize major topics, which include the following: (1) functions, graphs, and limits, (2) derivatives, and (3) integrals. These topics are detailed in the AP Calculus AB course description, which is available at AP Central (http://apcentral.collegeboard.com). Students should understand that this course is designed to be a fourth-year mathematics course and the equivalent of a semester, 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. **Students are expected to take the AP Calculus AB Exam at the end of this course.**

AP Calculus BC Grade Level: 11-12 Code: MAC613
Length: 36 weeks

Major Concepts/Content: AP Calculus BC is a college-level course that differs from a high school calculus course in terms of depth of coverage and time commitments for study. The content is organized to emphasize major topics, which include the following: (1) functions, graphs, and limits, (2) derivatives, (3) integrals, and (4) polynomial approximations and series. These topics are detailed in the AP Calculus BC course description, which is available at AP Central (http://apcentral.collegeboard.com). AP Calculus BC is an extension of AP Calculus AB, and provides the equivalent of a second course in a college calculus sequence. **Students are expected to take the AP Calculus BC Exam at the end of this course.**

AP Statistics Grade Level: 11-12 Code: MAZ611
Length: 36 weeks

Major Concepts/Content: **Major Content/Concepts:** AP Statistics is a college-level course, which differs from a high school statistics course in terms of depth of coverage and time commitments for study. The content is organized to emphasize major topics, which include the following: (1) data investigation, (2) designing and conducting studies, (3) anticipating patterns using probability and simulations, and (4) statistical inference. These topics are detailed in the AP Statistics course description, which is available at AP Central (http://apcentral.collegeboard.com). 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. **Students are expected to take the AP Statistics Exam at the end of this course.**

SCIENCE

Three (see graduation requirements on page 1) Carnegie Units of Science are required for graduation from a DoDDS high school.

Physics Applications in the Community Length: 36 weeks Code: SCP302

Major Concepts/Content: Introduction to Physics presents concepts of physics in relation to world experiences. Information is presented in an integrated approach, linking physics with technology, social perspectives, and the history and nature of science. The course presents a thematic approach to physics using explorations of topics. Kinematics and dynamics are introduced by studying the physics of sports and transportation systems. Communication and information technologies are used to examine wave theory, light, and sound. Electrical and thermal energy topics are studied within the context of the home, as well as on a global scale. Applications of physics to health and medicine provide opportunities to study x-rays, CT scans, and ultrasound. Scientific predictions, such as those associated with radioactive decay, Newton's first two laws, the Law of Universal Gravitation, and special relativity, are contrasted with non-scientific views in order to highlight the characteristics of good science.

Biology Length: 36 weeks Code: SCB401
Required

Major Concepts/Content: Biology is designed to provide students with an integrated approach to the study of living organisms, in addition to science as inquiry, science and technology, science and social perspectives, and the history and nature of science. The course integrates unifying science concepts and processes of systems, order and organization, evidence, models and explanation, change, consistency and equilibrium; and form and function. Scientific inquiry and understanding about inquiry are emphasized through practical implications and meaningful applications. Based on the philosophy that scientific knowledge is best acquired through inquiry, the course uses a variety of techniques to introduce, stimulate, explore, and reinforce major scientific concepts, theories, principles, and skills.

AP Biology Length: 36 weeks Code: SCB612

Major Concepts/Content: AP Biology provides an understanding of the unifying themes and fundamental concepts and principles of biology with an emphasis on inquiry and critical thinking skills including problem solving, mathematical reasoning, and experimental investigations. Topics of study include molecules and cells, heredity and evolution, and organisms and populations. Laboratory work is an integral component of this course. Technology including graphing calculators, probe ware, graphing and data analysis software, and biological apparatus is used throughout this course. Though our system has an

open enrollment policy, students should understand that this course is designed to be a second year biology course, and the equivalent of a two-semester long introductory, college level biology course. The course requires a working knowledge of biology, and chemistry. The breadth, pace and depth of material covered exceeds the standard high school Biology course, as does the college-level textbook, laboratory work, and time and effort required of students. This course provides the biology foundations for college majors in biology. **Students are expected to take the AP Biology Exam at the end of this course.**

Human Anatomy and Physiology Grade Level: 10-12 Length: 36 weeks Code: SCX401

Major Concepts/Content: Human Anatomy and Physiology is an elective course for students with a special interest and high motivation for an in-depth study of normal human structures and functions. Information is presented in an integrated approach with science as inquiry, science and technology, science and social perspectives, and the history and nature of science. The course integrates biology and chemistry using unifying concepts and processes of systems, order and organization, evidence, models and explanation, change, consistency and equilibrium, and form and function. Scientific inquiry and understanding about inquiry are emphasized through practical and meaningful applications. Topics students study include the muscular, nervous, digestive, respiratory, circulatory, excretory, endocrine, and reproductive systems, and genetics.

Chemistry Applications in the Community Level: 10-12 Length: 36 weeks Code: SCC502

Major Concepts/Content: Chemistry Applications in the Community is an entry-level course designed to help students understand the chemistry behind some important societal issues. Information is presented in an integrated approach with science as inquiry, science and technology, science and social perspectives, and the history and nature of science. The course integrates unifying science concepts and processes of systems, order and organization, evidence, models and explanation, change, consistency and equilibrium, and form and 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.

Chemistry Grade Level: 10-12 Length: 36 weeks Code: SCC501

Major Concepts/Content: Chemistry is designed to help students understand the major principles of chemistry. Information is acquired through an integrated approach, incorporating advanced topics with science as inquiry, science and technology, science and social perspectives, and the history and nature of science. The course integrates unifying science concepts and processes of systems, order and organization, evidence, models and explanation, change, consistency and equilibrium; and form and function. Scientific inquiry and understanding about inquiry are emphasized through practical implications and meaningful applications. Topics that students study include atomic theory and structure, chemical bonding, principles of chemical reactions, molecular structure, and how science and technology relate to chemistry.

AP Chemistry Grade Level: 11-12 Length: 36 weeks Code: SCC612

Major Concepts/Content: The AP Chemistry course is designed to be the equivalent of the general chemistry course taken during the first year of college. 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. **Students prepare to take the AP exam in the spring.**

Physics Grade Level: 10-12 Length: 36 weeks Code: SCP501

Major Concepts/Content: Physics presents basic concepts of physics in relation to world experiences. Information is presented in an integrated approach, linking physics with technology, social perspectives, and the history and nature of science. The class is designed to provide an understanding of the physical laws fundamental to all sciences. Fundamental laws of mechanics are introduced, along with measurement and problem-solving techniques. Other topics included are wave theory, heat, sound, light, magnetism, electricity, atomic structure, nuclear reactions, and high-energy physics.

Environmental Science Grade Level: 11-12 Code: SCZ401
Length: 36 weeks

Major Concepts/Content: 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 and technology, science and social perspectives, and the history and nature of science. The course integrates unifying science concepts and processes of systems, order and organization, evidence, models and explanation, change, consistency and equilibrium, and form and 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.

AP Environmental Science Grade Level: 11-12 Code: SCZ611
Length: 36 weeks

Major Concepts/Content: AP Environmental Science provides an investigative approach to the interrelationships of the natural world through the study of the fundamental concepts, principles, and methodologies of environmental science, with an emphasis on inquiry and critical thinking skills including problem solving and experimental investigations. Topics of study include Earth systems and resources, ecosystems and energy flow, population biology, land and water use, energy resources and consumption, pollution, and global change. These themes in AP Environmental Science are detailed in the AP Environmental Science course description, which is available on AP Central (http://apcentral.collegeboard.com). Laboratory work and field studies are an integral component of this course. Technology including graphing calculators, probe ware, graphing and data analysis software, and environmental sciences apparatus is used throughout this course. Students should understand that this course is designed to be a second year environmental science course, and the equivalent of a one semester-long, laboratory-based, introductory, college level environmental science course. The course requires a working knowledge of biology, chemistry and/or physics, and one year of algebra. The breadth, pace and depth of material covered exceeds the standard high school Environmental Science course, as does the college-level textbook, laboratory work, and time and effort required of students. **Students are expected to take the AP Environmental Science Exam at the end of this course.**

SOCIAL STUDIES

Three (see graduation requirements on page 1) Carnegie Units of Social Studies are required for graduation from a DoDDS high school.

World History 9: Civilizations Grade Level: 9 Code: SSW305
Length: 36 weeks

Major Concepts/Content: The world regions/cultures course is designed to study other cultures so students can understand the global community in which they live. Students develop skills necessary to analyze change and continue the study of cultures and geography begun in the sixth and seventh grades. An overview of physical geographic concepts and skills is basic to this course. Its emphasis is on the cultures of the Southwest Asia (Middle East), Africa, South Asia, Central Asia, East Asia, Southeast Asia, and Europe. The host nation culture is studied and used as a basis of comparison. Instructional activities will be provided relative to the content of the world cultures and regions course. Students will locate major

cultures in specific geographic areas, compare the development of different societies, and use geographic skills to explore physical and cultural diversity of regions.

World History Grade Level: 10-12 Code: SSW401
Length: 36 weeks

Major Concepts/Content: The world history course is designed to build on the content in the ninth grade geographical and cultural studies by studying the historical development of these cultures. The course continues the chronological study of ancient world civilizations. After an overview of the Early Ages, the course emphasizes the period from the Middle Ages to the contemporary world. Using the multidisciplinary approach, world history is a balanced program, not just a history of Western Europe. Attention is given to Europe, Asia, Africa, North and South America. The host nation's history and culture are used for comparison.

Honors World History 9 Grade Level: 9 Code: SSW371
(With Honors Literature 9) Length: 36 weeks

Major Concepts/Content: 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. Instructional activities will be provided using the content of World History. Students will read and critically respond to a wide spectrum of challenging literary selections that mirror the cultures, themes and times of the period from Ancient Civilization to 1500 A.D. Students will study geographical factors that affect civilizations and conduct in-depth research on topics relative to major historical events, people, and regions. Many of the learning activities will culminate in shared products for Social Studies and English. Students will receive a grade in both English and World History.

Honors World History 10 Grade Level: 10 Code: SSW471
(With Honors Literature 10) Length: 36 weeks

Major Concepts/Content: 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. Instructional activities will be provided using the content of World History. Students will read and critically respond to a wide spectrum of challenging literary selections that mirror the cultures, themes and times of the period from 1500 to the present. Students will conduct in-depth research on topics relative to major historical events, people, and regions. Many of the learning activities will culminate in shared products for Social Studies and English. Students will receive a grade in both English and World History.

AP World History Grade Level: 10 Code: SSW412
Length: 36 weeks

The AP program in World History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in world history. The program prepares students for intermediate and advanced college courses by making demands upon them

equivalent to those made by full-year introductory college courses. The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts in different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge, leading interpretive issues, and skills in analyzing types of historical evidence. Periodization, explicitly discussed, forms an organizing principle to address change and continuity throughout the course. Specific themes provide further organization to the course, along with consistent attention to contacts among societies that form the core of world history as a field of study. These topics are detailed in the AP World History course description, which is available at AP Central (http://apcentral.collegeboard.com). Students prepare to take the AP exam in the spring.

United States History Grade Level: 11-12 Code: SSU501
Length: 36 weeks

Major Concepts/Content: Following a review of the nation's beginnings and the impact of the Enlightenment on U.S. democratic ideals, students in grade eleven study the major events in American history in the twentieth century. Building on prior knowledge of industrialization, students analyze the emergence and impact of accelerated technological development, a corporate economy, and related social and cultural effects on society. Students trace the change in the ethnic composition of American society; the movement toward equal rights for racial minorities and women; and the role of the United States as a major world power. Emphasis is placed on the expanding role of the federal government and federal courts as well as the continuing tension between the individual and the state. Students consider the major social problems of our time and trace their causes in historical events. Students analyze how the United States has served as a model for other nations and that the rights and freedoms we afforded are not accidental, but the results of a defined set of political principles that are not always basic to citizens of other countries. Students understand that our rights under the U.S. Constitution are a precious inheritance that depends on an educated citizenry for their preservation and protection.

AP US History Grade Level: 11-12 Code: SSU611
Length: 36 weeks

Major Concepts/Content: The AP program in United States History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials - their relevance to a given interpretive problem, their reliability, and their importance - and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions based on an informed judgment and to present reasons and evidence clearly and persuasively in essay format. 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 prepare to take the AP exam in the spring.**

United States Government Grade Level: 12 Code: SSG601
Length: 18 weeks

Major Concepts/Content: The United States government course is a required one semester course designed to provide students with essential knowledge and skills related to the nation's government and its historical development. Students in this course pursue a deep understanding of the institutions of American government. They analyze the history and interpretations of the Constitution, the Bill of Rights, and the current state of the legislative, executive, and judiciary branches of government. An emphasis is placed on analyzing the relationship between federal, state, and local governments, with particular attention paid to important historical documents. Students compare systems of government in the world (comparison with host nation's government is encouraged as part of the program). These standards

represent the culmination of civic efficacy as students prepare to vote, participate in community activities, and assume the responsibilities of citizenship.

AP American Government and Politics Grade Level: 12 Code: SSG612
Length: 36 weeks

Major Concepts/Content: A well-designed AP course in United States 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 U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and 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. Instructional activities will be provided relative to the content standards of the AP US Government, and use chronological and spatial thinking, historical research, and interpretation to demonstrate intellectual reasoning, reflection and research skills. **Students are expected to take the AP American Government and Politics exam in May.**

Psychology Grade Level: 10-12 Code: SSP501
Length: 18 weeks

Major Concepts/Content: The psychology course is designed to be a one-semester elective course offered at the eleventh and twelfth grades. This study of the behavior of human beings focuses on physical characteristics, cognitive activity, emotional states, and social interaction.' Students study the stages of human development, motivational theory, theories of personality, and mental wellness and illness. The process of scientific investigation is a major part of this course. Students will participate in group activities that enhance the study of specific units, outline theories of behavior, make case studies, and complete research for oral and written reports. Activities will include participating in self-awareness and group dynamic activities.

Model United Nations (Fall semester) Grade Level: 10-12 Code: SSZ403
Length: 18 weeks

Major Concepts/Content: The model United Nations course is designed to study the major operations and functions of the United Nations and the role of diplomacy in the organization work. The major political, economic, and cultural concerns of Asia, Africa, the Americas, Europe, and the Middle East will be studied with major emphasis on assigned countries. Instructional activities will be provided using the content of the model United Nations course. Students will be assigned a country to research. They will prepare resolutions on a current problem that reflects their assigned country's political and economic goals. Debates on resolutions in model United Nations simulations will demonstrate parliamentary procedure.

Street Law Grade Level: 10-12 Code: SSZ303
Length: 18 weeks

Major Concepts/Content: 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. Depending on the length of the course, topics will include an introduction to law and the legal system, criminal law, torts, consumer law, family law, housing, and individual rights and responsibilities. Students will study some of the current issues and controversies relating to the law and legal system. Students will learn the different methods of solving legal problems, including negotiation, mediation, and the trial process. An effort will be made to make the course relevant to students in DoDEA schools by including special lessons that compare American and the host nation's law and instruct students in the basics of the Code of Military Justice.

Economics Grade Level: 10-12 Code: SSN401
Length: 18 weeks

Major Concepts/Content: The economics course is a one-semester course designed to acquaint students with the major concepts in the study of economics. Students study how scarce resources are

allocated among competing demands. The production, distribution, and accumulation of wealth are discussed and analyzed. Supply and demand, business organization, money and banking, the role of the federal government, and comparisons among economic systems are major topics of study.

PHYSICAL EDUCATION

1½ Carnegie Unit(s) of Physical Education is required for graduation from a DoDDS high school.

Personal Fitness Grade Level: 9-12 Code: PEF301
Required Length: 18 weeks
Major Concepts/Content: This semester course, which is required for graduation, is designed to enable students in grades nine through twelve to develop the movement skills and conceptual knowledge to make personal physical fitness decisions for a lifetime. Developmentally appropriate concepts of movement, physical fitness, and personal and social development are included in this course. Students apply appropriate information and problem solving that will help them achieve an individual, optimal level of fitness. The course focuses on why fitness is important, assessing an individual's exercise and activity needs, and how to exercise safely.

Lifetime Sports Grade Level: 9-12 Code: PEL301
Required Length: 18 Weeks
Major Concepts/Content: This semester course, which is required for graduation, is designed to enable students in grades nine through twelve to develop the movement skills and conceptual knowledge for sports participation throughout life.

Physical Activity and Nutrition Grade Level: 10-12 Code: PEN301
Required Length: 18 weeks
Major Concepts/Content: This one semester physical activity and nutrition course is required for graduation. This course provides a variety of opportunities for students to experience alternative, non-competitive physical activities. It is designed to enable students in grades nine through twelve to develop the movement skills and conceptual knowledge necessary to implement a personal physical activity and nutrition plan. Students participate in non-competitive physical activity and meal planning with pre and post physical activity and nutrition assessments. Students access information, obtain and analyze data, and develop their own personal physical activity and nutrition plan.

Conditioning Grade Level: 11-12 Code: PEG402S
Elective Length: 18 weeks
Major Concepts/Content: This one 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 of the student's choosing. 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. The course provides advanced instruction in the selected sports and physical activities. Enhanced understanding and application of more complex tactics and skills for enjoyment of full participation in sports and physical activity is the goal. Students analyze sports strategies and design tactics and routines for improved performance. **This course is for elective credit and may be taken only after required PE courses are completed.**

HEALTH

One-half Carnegie Unit of Health is required for graduation from a DoDDS high school.

Health Ed Grade Level: 10-12 Code: HLH301
Required Length: 18 weeks
Major Concepts/Content: This required health education course is designed to help high school students extend their conceptualization of knowledge, attitudes, and skills related to health issues learned in middle school. The focus is on students dealing with the world today and preparing for adult living based on a health and wellness ethic. Developmentally appropriate concepts of personal and community health, safety, mental health, alcohol, tobacco, and other drugs, and family life and human sexuality are taught in this course. Students will utilize health education concepts when applying health information literacy

skills, enhancing intrapersonal and interpersonal communications, analyzing internal and external influences, and applying thinking, self-management, and advocacy to promote wellness and reduce health risks.

OTHER ELECTIVES

Journalism Grade Level: 10-12 Code: LAJ401
(Elective credit only) Length: 18 - 36 weeks

Major Concepts/Content: The journalism course encourages student responsibility for the development of personal and staff management skills, for the production of a publishable product, and for adherence to ethical values affecting journalists, while helping students to refine and put to practical use their thinking, writing, and analyzing 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; 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. Students in the class will produce a school newspaper.

Yearbook Production Grade Level: 10-12 Code: AAY301
(Elective credit only) Length: 18 - 36 weeks

Major Concepts/Content: The Yearbook Production class is designed to produce the official yearbook for the school. All phases of yearbook production, including photography, copy writing, page layout, in addition to selling advertisements and books 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. Upon completion of the yearbook production course, students should be able to:

- Produce a quality yearbook in a timely fashion.
- Provide accurate accounting for all funds collected/disbursed.
- Present the school in a positive manner.
- Discover and nurture talents/interests in photojournalism.

English as a Second Language Grade Level: 9-12 Code: LAA301 1st year
LAA401 2nd year
LAA501 3rd year
Length: 36 weeks LAA601 4th year

Major Concepts/Content: The English as a Second Language courses are designed to develop and increase English language proficiency and academic skills for students whose primary language is not English. They actively involve 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 related to meeting everyday needs and participating in the American school cultural, and on the cognitive academic language needed for success in the general education classroom. The content includes the development of both social and academic listening and speaking skills through dialogues, conversations, chants, role-

playing, and oral reporting. The content also includes the development of reading strategies, in both fiction and nonfiction, previewing, determining main idea and details, inferring, analyzing, and evaluating written material; and the development of writing, both factual and creative, at all stages of the writing process including prewriting, drafting, responding to peer writing, revising, editing, and publishing. Vocabulary and syntax are presented and developed in context and in authentic situations using the language of the general education content classes. The development of critical thinking and study skills, and sociocultural knowledge is emphasized throughout the learning process. **Two years of ESL credit can be substituted for two years of Language Arts credit.**

AVID 9, 10, 11, 12 Grade Level: 9-12 Code: LAV301
(Elective credit only) LAV401
LAV501
Length: 36 weeks LAV601

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

Staff Assistant Grade Level: 9-12 Code: AAC301
(No credit toward graduation) Length: 18-36 weeks
Major Concepts/Content: The staff assistant course is designed to provide students with experiences in assisting professional school personnel in the duties for which they are responsible. **NOTE: No credit for staff assistant is permitted toward graduation.**