

Glendale Union High School District Statement of Compliance

Public Notification of Nondiscrimination Annual Public Notification of Nondiscrimination Glendale Union High School District does not discriminate on the basis of race, color, national origin, sex, age or disability in admission to its programs, services or activities, in access to them, in treatment of individuals, or in any aspect of their operations. GUHSD provides equal access to the Boy Scouts and other designated youth groups. GUHSD Career & Technical Education Department does not discriminate in enrollment or access to any of the programs available, such as business, applied technology, FACS, nursing, and fire science. The lack of English language skills shall not be a barrier to admission or participation in the district's activities and programs. GUHSD does not discriminate in its hiring or employment practices.

This notice is provided as required by Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, the Age Discrimination Act of 1975 and the Americans with Disabilities Act of 1990. Questions, complaints or requests for additional information regarding these laws may be forwarded to the designated compliance coordinator(s), call 623-435-6006 or 623-435- 6067, 7650 N. 43 Ave., Glendale, AZ 85301

Notificación Pública Anual de No Discriminación: El Glendale Union High School District (GUHSD) no discrimina en base a raza, color, nacionalidad, género, edad, o discapacidad de admisión a sus programas, servicios, o actividades, en acceso a ellas, en el tratamiento a individuos, o en ningún aspecto de sus operaciones. GUHSD provee el acceso igual a los Boy Scouts y otros grupos designados para los jóvenes. El departamento de Educación Técnica y de Carreras de GUHSD no discrimina en su matriculación ni en el acceso a cualquier de sus programas disponibles, como negocios, la tecnología aplicada, FACS, enfermería, y formación para bomberos. La falta de habilidades con el inglés no será una barrera a la admisión ni la participación en las actividades del distrito y sus programas. GUHSD tampoco discrimina en sus contratos o prácticas de empleados.

Esta noticia es provista y requerida por el Título VI del Acto de Derechos Civiles de 1964, Sección 504 del Acto de Rehabilitación de 1973, Título IX de la Enmienda Educativa de 1972, en el Acto de Era de Discriminación de 1975, y el Acto de los Estadounidenses con Habilidades Diferenciadas de 1990. Ud. puede comunicarse con el coordinador de cumplimiento sobre preguntas, quejas, o para más información con respecto a estas leyes. Director de Operaciones y Atletismo, 623-435-6006 Directora de la Educación Especial 623-435-6067, 7650 N. 43rd Ave. Glendale, 85301

Aerospace Science (AFJROTC)

Sunnyslope only

Aerospace courses are offered through the AFJROTC program. Specific benefits available to students who pursue the Aerospace Science program include 4-year college ROTC scholarships; Air Force Academy nominations for those qualified; higher pay for those who enlist in the Air Force, Army, Navy, National Guard, and Marines after high school graduation; counseling on vocational opportunities in the military services, Coast Guard and the aerospace industry; leadership training and experience; training in patriotism, customs and courtesies; and involvement with various AFJROTC activities. No military obligation is incurred. There is no lab, book, or uniform fees. Proper grooming in accordance with Air Force standards (e.g., wearing of the uniform, haircuts, etc.) is a requirement of these courses.

Aerospace Science 1-2

Grades 9-12

2 Sem 1 Credit

The first year is a history course designed to acquaint the student with the historical development of flight and the role of the military. Over three-quarters of the available classroom hours are spent reviewing the development of flight from ancient legends through the Persian Gulf War and beyond. Additionally, the role of the military throughout the history of the United States is identified. Many of the sixty hours dedicated to leadership studies relate directly to the academic subject matter, with cadets presenting written and oral reports. Wearing of the uniform, Air Force customs and courtesies, and basic drill skills are introduced.

Aerospace Science 3-4

Grades 10-12

2 Sem 1 Credit

Prerequisite: None for Juniors, Seniors; Aerospace 1-2 for Sophomores

The second year is a science course designed to acquaint the student with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation. The course begins with a discussion of the atmosphere and weather. After developing an understanding of the environment, how that environment affects flight is introduced. Discussions include the forces of lift, drag, thrust, and weight. Students also learn basic navigation including map reading, course plotting, and the effects of wind. The portion on the Human Requirements of Flight is a survey course on human physiology. Discussed here are the human circulatory system, the effects of acceleration and deceleration, and protective equipment. Leadership hours stress communications skills, time management, and cadet corps activities. As before, written reports and speeches complement academic materials. Cadet corps activities include holding positions of greater responsibility in the planning and execution of corps projects.

Aerospace Science 5-6

Grades 11-12

2 Sem 1 Credit

Prerequisite: None for Seniors; Aerospace 1-2 and 3-4 for Juniors

The third year is a science course which examines our Earth, the Moon and the planets, the latest advances in space technology, and continuing challenges of space and manned spaceflight. Issues critical to travel in the upper atmosphere such as orbits and trajectories, unmanned satellites, space probes, guidance and control systems are explained. The manned spaceflight section covers major milestones in the endeavor to land on the Moon, and to safely orbit humans and crafts in space for temporary and prolonged periods. It also covers the development of space stations, the space shuttle and its future, and international laws for the use of the travel in space. 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 corps.

Aerospace Science 7-8

Grade 12

2 Sem 1 Credit

Prerequisite: Completion of 2 units of Aerospace Science, and approval of Department Chair

The fourth year curriculum is unique from the others. It offers three options depending on the composition of the students enrolled. The Senior Aerospace Science Instructor (SASI) may choose which option they would like to incorporate for that year. **Option 1 – Management of the Cadet Corps.** The cadets manage the entire corps during the fourth year. This hands-on experience affords the cadets the opportunity to put the theories of previous leadership courses into practice. All the planning, organizing, coordinating, directing, controlling, and decision-making will be done by the cadets. They practice their communication, decision-making, personal-interaction, managerial, and organizational skills. **Option 2 Honors Program, Ground School.** The second option is the honors program which is the ground school course. The material covered is an advanced, more in-depth study of the previous aerospace topics. This course is the foundation for students interested in receiving a private pilot's license. When the course is completed the students should be prepared to take and pass the Federal Aviation Administration (FAA) written examination. **Option 3 – Aerospace Careers, Laboratory Manual, Geography, Survival, and Policy and Organization.** The third option includes a textbook on choosing a career which has valuable information about careers in the aviation and aerospace industry. The laboratory manual contains experiments that supplement the information in *Aerospace Science: The Science of Flight*, and *Aerospace Science: The Exploration of Space*. It is designed to help students apply scientific concepts and principles discussed in the texts. The geography portion of the course adds to the basic knowledge of the Earth's surface and the processes that shape it; of places and their connections to other places; and of the relationship between people and environments. The survival section presents "good to know" information that would be useful in any situation. Survival instruction will provide training in skills, knowledge, and attitudes necessary to successfully perform fundamental tasks needed for survival. The information is just as useful to an individual lost hunting or stranded in a snow storm. The section on policy and organization describes the functions of the four branches of service and it also discusses the presidential administrations from the 1970's to 1990's.

Career and Technical Education Programs (CTE)

INDUSTRIAL & ENGINEERING SERVICES

Drafting and Design Technology

Grades 9-12

2 Sem 1 Credit

Apollo, Greenway, Independence, Moon Valley, and Sunnyslope

This course covers principles fundamental to the production and reading of mechanical drawings. The drawings will be produced using computer-aided design systems. This program of study can be the beginning of a great foundation for those students interested in engineering, architecture, computer science, and other technological fields. Some of the units covered are as follows: orthographic projection, technical geometry, dimensioning, engineering problem solving, and product design. This course provides students the opportunity to use mathematical and scientific reasoning with hands-on applications. Students are expected to develop skills in problem solving, teamwork, critical thinking, research, career planning and self-responsibility.

Architectural Drafting and Design Technology

Grades 10-12

2 Sem 1 Credit

Apollo, Greenway, Moon Valley, and Sunnyslope

Prerequisite: Drafting and Design Technology

Students are given opportunities to investigate architecture as a profession and architectural drafting, building construction and building trades as possible occupations. Students will be required to draw a set of working plans of their own design. The drawings will be produced using computer-aided design systems. Students will manufacture scale models of their project designs. Students will challenge their architectural drafting and design skills at local and regional design competitions through the SKILLS USA student program.

Mechanical Drafting and Design Technology

Grades 10-12

2 Sem 1 Credit

*Apollo, Greenway, and Moon Valley***Prerequisite: Drafting and Design Technology**

Students will become skilled at the complete design process: drafting, problem solving, testing, presentation, production, and post-production of mechanical and engineering projects. The course is for students who plan to become technicians in industry or pursue careers in engineering, graphic design, and computer animation. The drawings will be produced using computer-aided design systems. Students are expected to design using 2D and 3D environments. 3D designs will utilize the latest rendering and animation techniques for realism. Students will manufacture scale models of their project designs. Students will challenge their mechanical drafting and design skills at local and regional design competitions through the SKILLS USA student program.

Applied Drafting Mathematics

Grades 10

2 Sem 1 Credit

*Greenway Only***Prerequisite: Algebra 1-2, Concurrent enrollment in Mathematics for Drafting required.**

This course is an expansion of the geometry curriculum created to meet the graduation requirements for the fourth year of math. Students will use math to solve hands-on project-based exercises. This course is co-taught with the applied tech department to provide students with the opportunity to build projects using mathematical principals from technical geometry, trigonometry, physics, advanced algebra and geometric construction. By engaging in drafting concepts such as orthographic projection, technical geometry, dimensioning, engineering problem solving, and product design, students will thus be able to apply math concepts to interactive group based activities and projects while developing skills in problem solving, teamwork, critical thinking, research, career planning and self-responsibility.

Engineering Sciences

Grades 9-12

2 Sem 1 Credit

Greenway, Independence, Moon Valley and Sunnyslope

Engineering Sciences is designed to provide students with a broad exploratory experience in the world of technology. Students work individually and in groups using fundamental scientific principles to solve real world problems. The course provides students the opportunity to study technological systems including energy/power, manufacturing/construction, transportation and communications. Engineering Sciences uses a unique approach that involves a series of modules which allow a student to work in selected areas of interest. Each activity emphasizes the importance of applied academic skills in reading, mathematics and oral communication. Students are expected to develop skills in problem solving, teamwork, critical thinking, research, planning and responsibility.

Advanced Engineering Sciences

Grades 10-12

2 Sem 1 Credit

*Greenway, Independence, Moon Valley and Sunnyslope***Prerequisite: Drafting and Design Technology**

The Advanced Engineering Sciences course is a more complex level of solving real-world technical problems than students encountered in Engineering Sciences. This complexity allows students the opportunity to use more advanced mathematical and scientific reasoning with hands-on applications. The Advanced Engineering Sciences student is also given greater opportunities to develop entry-level technician skills in areas such as computer sciences, mechanics, electronics, and structures. The Engineering Sciences program can be the beginning of a great foundation for those students interested in engineering, architecture, computer science, and other technological fields.

Welding Program Open to All District Students—Hosted at Cortez High School
Students provide their own transportation.

Introduction to Welding Technology

Grades 10-12

2 Sem 1 Credit

This is the first course of a two-year welding and fabrication program offered to sophomore, junior and senior students through a partnership with West-MEC (Western Maricopa Education Center.) Student education will include core concepts on electricity principles, welding theory and history as well core welding principles and adaptations. Student's practical lab experiences will include concepts to develop skills in Oxy Acetylene gas welding for carbon steel of varying thicknesses. Lab work will also include welding using SMAW (Shielded Metal Arc Welding.) process for carbon steel incorporating drag rod and weave bead techniques. Students also begin fabrication concepts and practices as well as all required safety practices. Upon completion of the two-year program, students may test the American Welding Society S.E.N.S.E. test.

Basic Electric Arc Welding Techniques and Practices

Grades 10-12

2 Sem 1 Credit

Prerequisite: Introduction to Welding Technology

This is the second course of a two-year welding and fabrication program offered to sophomore, junior and senior students through a partnership with West-MEC (Western Maricopa Education Center). Students will discover further advancement in SMAW (shielded metal arc welding) including changes in rod movement, polarity manipulation and structural techniques and concepts. Student will also develop and learn GMAW (Gas Metal Arc Welding) applications and practices in the 1G and 1F positions. Students will reinforce welding booth skills through the added addition of more machine work including, grinding and shaping techniques, cutting machine and operation, heat treating, forging and bending of carbon steel for fabrication. Upon completion of the two-year program, students may test the American Welding Society S.E.N.S.E. test.

Electric Arc Welding Processes, Application and Fabrication

Grades 11-12

2 Sem 1 Credit

Prerequisite: Basic Electric Arc Welding Techniques and Practices

This course starts the second year of the two-year welding technology and fabrication program which continues to cover principles and terminology of welding carbon steel using a variety of processes and techniques. Students will add the additional skill and knowledge of practices for GTAW (gas tungsten arc welding) process for carbon steel in variety of positions and thickness. Student will also reinforce previous welding operations and techniques in advanced positioning and layout for SMAW, and GMAW. Using knowledge from these operations and techniques students will incorporate knowledge and practical welding experience for FCAW - ss and FCAW – gs (flux cored arc welding, gas shield and self-shield) Students will add additional fabrication and metal processing techniques to reinforce all welding techniques including, milling and lathe operation, CNC setup and operation, advanced layout and CAD concepts and blue print work. Upon completion of the two-year program, students may test the American Welding Society S.E.N.S.E. test.

Advanced Electric Arc Welding and Positioning

Grades 11-12

2 Sem 1 Credit

Prerequisite: Electric Arc Welding Processes and Applications and Fabrication

This is the final course in the two-year welding technology and fabrication program. The course allows students to focus on advanced welding techniques in multiple processes and positions. Students will utilize previous welding experience to expand welding knowledge to a variety of materials including carbon steel work as well as the weld ability knowledge and practices for aluminum and stainless steels, utilizing GTAW and GMAW welding concepts. Students will also expand welding in various processes to include all positions for groove and fillet welds, including horizontal and vertical positioning. Incorporation of advanced robotic and machine concepts will be utilized to add custom fabrication in a variety of materials and thicknesses to welding skill for industry standard techniques. Upon completion of the two-year program, students may test the American Welding Society S.E.N.S.E. test.

Cabinetmaking 1-2

Grades 9-12

2 Sem 1 Credit

Glendale and Sunnyslope

This course is designed to teach the student to design, problem-solve, calculate and build using the cabinetmaking curriculum as a hands-on vehicle. The student will study the following areas: industrial safety, machine operation, furniture construction, design, production and finishing. The student will build a piece of furniture for themselves or for others.

Cabinetmaking 3-4

Grades 10-12

2 Sem 1 Credit

*Glendale and Sunnyslope****Prerequisite:*** *Cabinetmaking 1-2*

Techniques of cabinetmaking and furniture making will be covered in this advanced course along with the use of all power tools and machines. The students will construct projects of greater difficulty than the previous year. Included in this course is the study of materials commonly used in industry today: plastic laminates, wood veneers, and many different types of hardware. Emphasis is placed on finishing techniques and the use of spray equipment, blueprint reading, and the excellence in workmanship.

Production Stage Craft and Design

Grades 10-12

2 Sem 1 Credit

*Cortez, Glendale, Greenway, Moon Valley, Thunderbird and Washington****Prerequisite:*** *Theatre 1-2 or Instructor's approval*

Students investigate employment opportunities in all areas of technical theatre. Shop safety, attention to detail, problem solving, and positive communication techniques are some specific across curriculum items that will be focused on. Students will be required to complete design projects using professional computer-aided design programs in the areas of set, props, lighting, sound, makeup, and costume. Students will have an opportunity to show their work, make design presentations, and present portfolio reviews through the CTSO student program.

Advanced Production Stage Craft and Design

Grades 11-12

2 Sem 1 Credit

*Cortez, Glendale, Greenway, Moon Valley, Thunderbird and Washington****Prerequisite:*** *Theatre 1-2 and Production Stage Craft and Design or Instructor's approval*

Students will develop skill in the areas of set, props, lighting, sound, makeup, and costume. The course is for students who plan on pursuing a career in technical theatre. Professional computer-aided design projects will be created for each area of technical theatre. Leadership is mandatory for this course. Students will have opportunities to become crew heads, assistants, and stage managers; furthermore, event management training may lead to students working rentals. Students will have an opportunity to show their work, make design presentations, and present portfolio reviews through the CTSO student program.

AUDIO/VISUAL SERVICES**Film & TV 1-2**

Grades 9-12

2 Sem 1 Credit

All campuses

This hands-on course prepares students for a career in the Audio/Visual industry. Script writing, lighting techniques and sound editing projects simulated in a work-based environment will prepare students for careers in this exciting field. Students may expect to work both behind and in-front of the camera. Students will produce and edit digital video/animation.

Film & TV 3-4

Grades 10-12

2 Sem 1 Credit

*All campuses****Prerequisite:*** *Film & TV 1-2*

This course allows students to simulate working with "real-world" industry experiences. Students are teamed together to apply advanced concepts in audio/visual technology. Students will operate studio equipment in the daily production of video school announcements, public service documentaries and short films. Students will produce and edit advanced digital video/animation. Continued study of media is for the serious video or filmmaker willing to dedicate extra-curricular time to the class. This course may be repeated for credit.

Digital Photography 1-2

Grades 9-12

2 Sem 1 Credit

Apollo, Greenway, Independence, Sunnyslope, Thunderbird and Washington

This dynamic course instructs students in visual arts and prepares the student to use basic artistic techniques to effectively communicate ideas and information to business and consumer audiences via digital photography. Students will use digital cameras to capture images, computer software to edit images, and learn graphic arts work-flow practices in order to produce business and artistic photography.

Digital Photography 3-4

Grades 10-12

2 Sem 1 Credit

*Apollo, Greenway, Independence, Sunnyslope, Thunderbird and Washington***Prerequisite:** *Digital Photography 1-2*

Students will increase their photographic and technology skills through experimentation and research into a variety of advanced digital applications. Students will produce and edit advanced digital images for publication in a work-based-environment. Continued study of photos is for the serious photographer willing to dedicate extra-curricular time to the class. This class may be repeated for credit.

Digital Photography 5-6

Grades 10-12

2 Sem 1 Credit

*Apollo, Greenway, Independence, Sunnyslope, Thunderbird and Washington***Prerequisite:** *Digital Photography 3-4 with teacher recommendation*

Students increase their skills through experimentation and research into a variety of photographic media. Knowledge and skills attained may lead to the opportunity, with instructor approval, to participate in the College Board's Advanced Placement program. This course may be repeated for credit.

Digital Photography 7-8

Grades 10-12

2 Sem 1 Credit

*Apollo, Greenway, Independence, Sunnyslope, Thunderbird and Washington***Prerequisite:** *Digital Photography 5-6 with teacher recommendation*

Students increase their skills through experimentation and research into a variety of photographic media. Knowledge and skills attained may lead to the opportunity, with instructor approval, to participate in the College Board's Advanced Placement program. This course may be repeated for credit.

BUSINESS AND COMPUTER SERVICES**Accounting 1-2**

Grades 10-12

2 Sem 1 Credit

Greenway and Washington

Accounting is an excellent opportunity to prepare for employment in any business, finance, accounting or computerized field. Students learn accounting principles by analyzing and recording business transactions and preparing financial statements. The students will learn:

- To manage the records of a business using automated accounting software
- Skills that will make them employable
- Knowledge and skills that will be used in college, business and many careers

Accounting 3-4

Grades 11-12

2 Sem 1 Credit

*Greenway and Washington***Prerequisite:** *Accounting 1-2*

Students increase their employability and accounting background. The student will learn:

- Corporate accounting
- Managerial accounting
- Cost accounting
- Departmentalized accounting
- Industry standard accounting software

This class will increase their potential for success in college business, finance and accounting programs.

Business Internship (COE)

Grade 12

2 Sem 1 Credit

*Washington Only (Cooperative Office Education)***Prerequisite:** *One business education course/or Instructor's Approval. Career interest in office occupations.**Application and interview with the Coordinator. Note: Student must be enrolled in Business Internship Field (COE)*

Senior students attend classes part of the day and are employed in an office part time working an average of 10 hours a week. Through classroom instruction and on-the-job training, the student will:

- develop business skills
- develop a working knowledge of business practices and procedures
- develop a businesslike attitude
- develop self-confidence in a work situation
- learn how to work with people
- learn how to advance in a chosen field
- earn money while gaining experience
- determine student career choice and further education needs for working in the business world

Business Internship Field (COE)

Grade 12

2 Sem 1 Credit

*Washington only (Cooperative Office Education)***Prerequisite:** *Student must be enrolled in Business Internship (COE). Students must work an average of 10 hours per week***Business Operations and Software 1-2**

Grades 9-11

2 Sem 1 Credit

Apollo and Sunnyslope

In this course, students will enhance their technical knowledge and skills that are associated with functions within business operations. Students will use different software packages to accomplish tasks related to business and industry. Areas of study will include the Microsoft Office Suite. Specifically, students will master the use of presentation software, word processing, as well as cloud based software. This class is the first step in preparing students for valuable, professional credentials, which are globally recognized standards for digital literacy and desktop computing proficiency. Completion of this course and Advanced Business Operations and Software leads the student to Microsoft Office User Certification.

Advanced Business Operations and Software

Grades 10-12

2 Sem 1 Credit

*Apollo and Sunnyslope***Prerequisite:** *Student must have successfully complete Business Operations and Software 1-2.*

This course continues the student's knowledge in computer software and its applications in business and industry. Spreadsheet and database concepts will be introduced as well as advanced training in word processing. The students will also be introduced to global business concepts, business travel arrangements, and business management principles. Upon completion of the program, students will be prepared for success in the workplace with globally recognized credentials in digital literacy and business operations and will be able to sit for any of the Microsoft Office User Certification examinations. These certifications are recognized and accepted internationally by business and industry.

Business Operations Internship

Grades 11-12

2 Sem 1 Credit

*Sunnyslope only***Prerequisite:** *One business education course/or Instructor's Approval. Career interest in office occupations.*

Students in Business Operations Internship receive training in such Career and Technical Education areas as word processing, composing presentations, using databases and spreadsheets, phone communication, and duties related to office occupations. Students are also involved in all aspects of managing and operating our school merchandise store. Active FBLA membership is strongly encouraged.

Business Operations Internship Field

Grades 11-12

2 Sem 1 Credit

*Sunnyslope only***Co-requisite:** Student must be enrolled in Business Operations Internship

Students are required to work an average of 10 hours per week in a supervised work or volunteer experience. The school merchandise store provides a hands-on setting for students to apply their office training and skills. Active FBLA membership is strongly encouraged.

CISCO Network Academy 1-4

Grades 11-12

4 Sem 2 Credits

Greenway only

A four-semester course designed to teach students how to design, build and maintain computer networks. The course focuses on network equipment where students learn to configure Cisco routers and switches. Skills learned can potentially lead graduates to entry level IT positions, a foundation for technology-related college programs or careers in a variety of information technology positions. The course introduces students to basic and advanced networking concepts such as IP addressing, the OSI model, network topologies, LAN design, and routing protocols.

Introduction to Business, Marketing and Technology

Grades 9-11

2 Sem 1 Credit

All campuses except Cortez

This course is designed to introduce the students to basic marketing concepts and principles as they relate to Business, Sales, Entertainment, and Sports. Students will also examine the skills necessary to obtain and maintain a job by researching career interests. In addition, students will learn life skills such as technology, personal finance and written and verbal communication. Students will use state-of-the-art equipment and industry related instructional materials.

Intermediate Marketing

Grade 10-12

2 Sem 1 Credit

*All campuses except Cortez***Prerequisite:** Introduction to Business, Marketing & Technology

The course is offered to continue the student's education in business and marketing. The focus of the class will include hands-on activities in a variety of areas. Some of the areas included are: advertising, graphic design, human relations, entertainment, sports, and management. Students will use state-of-the-art equipment and industry related instructional materials. Dual credit may be obtained from the Maricopa Community College system for this class. Marketing is a co-curricular class that encourages students to participate with DECA and apply skills learned in class to real world applications.

Advanced Marketing

Grade 12

2 Sem 1 Credit

*All campuses except Cortez***Co-requisite:** Student must be enrolled in Advanced Marketing Field

Students in Advanced Marketing receive training in such Career and Technical Education areas as selling, merchandise information, duties related to preparing merchandise for sale, and management concepts. Students are also involved in all aspects of managing and operating the student store. Active DECA membership is strongly encouraged.

Advanced Marketing Field

Grade 12

2 Sem 1 Credit

*All campuses except Cortez***Co-requisite:** Student must be enrolled in Advanced Marketing

Students are required to work an average of 10 hours per week in a supervised work or volunteer experience. The campus student store is a hands-on laboratory setting for the students to apply advanced marketing concepts and will be utilized in the marketing class instruction and field experience. Active DECA membership is strongly encouraged.

Coding Foundations

Grade 9-11

2 Sem 1 Credit

Independence, Thunderbird and Washington only

In this course students will be introduced to software development. Students will learn computer concepts and programming. Hands-on projects are a major focus of the course and will be designed to use different programming languages to develop apps for mobile devices and computers. The course will also focus in problem-solving techniques, control structures, and arrays. Students will complete their work in an industry standard state of the art lab environment.

Intermediate Coding

Grade 10-12

2 Sem 1 Credit

Thunderbird and Washington

Using state of the art technology, students will focus on software development in a computer science environment. Students will increase problem solving skills by programming in object oriented languages. While using industry best practices, students will develop collaborative and individual software projects through the complete software development life-cycle. This includes design, planning, coding, testing, deployment, and teamwork.

HUMAN SERVICES**Education Professions**

Grades 11-12

2 Sem 1 Credit

Glendale, Greenway, Independence and Washington

This course is to provide high school students, potentially interested in becoming teachers, with first-hand classroom experience needed to inform and shape occupational choices. The class consists of instruction from a Master teacher and practicum in real classrooms.

Advanced Education Professions

Grades 11-12

2 Sem 1 Credit

Glendale, Greenway, Independence and Washington

This course is a continuation of Education Professions with an additional emphasis on career pathways and further opportunity for internships with mentoring teachers in neighboring schools.

Family & Consumer Sciences Internship

Grade 12

2 Sem 1 Credit

Apollo, Moon Valley and Washington

This class is designed for students interested in exploring careers in Family & Consumer Sciences. This class may include the areas of childcare, elementary education, fashion, interior design, hospitality and culinary arts. In the class, the students learn job-seeking skills related to a job/career they may choose. The students also learn effective communication, financial management, time/stress management and career planning. The FCCLA (Family, Career & Community Leaders of America) student club provides experiences for students to develop leadership and community service skills. Internship may include a wage-earning job or students may also work in the school café, or coffee shop.

Introduction To Early Childhood Education

Grades 10-12

2 Sem 1 Credit

Apollo, Moon Valley and Washington

This year long early childhood education course focuses on the growth and development of young children, conception through preschool age. Students will develop skills in working with young children that can be applied to future careers and parenting. Students will observe children in a developmental preschool setting.

Early Childhood Education 1-2

Grades 11-12

2 Sem 2 Credits

*Apollo, Moon Valley and Washington***Prerequisite:** *Introduction to Early Childhood Education or teacher approval*

2 hours per day; 1 hour class & 1 hour Preschool field.

Early Childhood Education provides hands-on experience and exposes students to the possibility of working with children and skills required for entry into early childhood occupational professions. These would include education, health related occupations, artistic design, business and food/nutrition. Students are required to plan and execute lessons within the preschool lab.

Culinary Arts 1-2

Grades 9-12

2 Sem 1 Credit

Apollo, Cortez, Glendale, Independence, Moon Valley, and Thunderbird

Students will learn the basic culinary skills of food preparation, nutrition, sanitation and safety. Kitchen work is done in cooperative groups and students learn both the preparation and presentation of nutritious meals.

Students will obtain a Maricopa County Food Handlers Card. Students will have the opportunity to experience the joys of cooking as they expand their cooking skills for home and/or the food service industry. Students must complete Culinary Arts 1 before enrolling in Culinary Arts 2.

Culinary Arts 3-4

Grades 10-12

2 Sem 1 Credit

*Apollo, Cortez, Glendale, Independence, Moon Valley, and Thunderbird***Prerequisite:** *Culinary Arts 1-2, Maricopa County Food Handler's Card, and teacher recommendation*

This class is designed to prepare students with the academic and workplace industry standard skills needed for hospitality and commercial food production. The focus is on preparation for careers in industries such as hotels, meeting centers, educational facilities, recreation/parks and cruise lines.

Culinary Arts 5-6

Grades 11-12

2 Sem 1 Credit

*Apollo, Cortez, Glendale, Independence, Moon Valley, and Thunderbird***Prerequisite:** *Culinary Arts 3-4, Maricopa County Food Handler's Card, and teacher recommendation*

Students will learn advanced academic and workplace industry skills for hospitality and commercial food production. Students will master the skills and knowledge required to enter the industry. Students will have the opportunity through participation with a variety of organizations to compete for scholarships.

Culinary Arts 7-8

Grade 12

2 Sem 1 Credit

*Apollo, Cortez, Glendale, Moon Valley, and Thunderbird***Prerequisite:** *Culinary Arts 5-6, Maricopa County Food Handler's Card, and teacher recommendation*

Students will participate in an individualized learning environment that allows for the continued development of advanced culinary and industry skills. Students will have the opportunity to plan and participate in multiple catering functions. Students will have the opportunity through participation with a variety of organizations to compete for scholarships.

Hospitality and Tourism 1-2

Grade 9-11

2 Sem 1 Credit

*Apollo and Greenway**Seniors by instructor permission*

In this class, students will learn the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events, and other travel related services. If you want to see the world, enjoy serving others, or dream of operating a restaurant or bed and breakfast someday, then Hospitality and Tourism is the right class for you.

Hospitality and Tourism 3-4

Grades 10-12

2 Sem 1 Credit

*Apollo and Greenway****Prerequisite: Hospitality and Tourism 1-2***

In this class students will explore in-depth the departments within the lodging sector, learn about food & beverage management, hone basic culinary skills, and learn strategies for providing amazing guest service. Students will explore the supervisory and managerial aspects of the hospitality industry, including leadership, motivation, ethics, and employee relations. Students will also learn advanced employability skills, including the creation of an employment portfolio. Students will have the opportunity to participate in a variety of field training experiences to Northern Arizona University and local resorts. Students will plan, implement, cook for and host a large-scale marketing event. FCCLA (Family, Career & Community Leaders of America), a nationally recognized leadership club, is integrated into class.

Careers in Law Enforcement 1-4

Grades 11-12

2 Sem 1 Credit

Moon Valley and Washington

This class will educate the student on what can be expected from a career in Law Enforcement. Topics for this class will include instruction ranging from patrol officers, violent crimes detectives, death investigators, accident investigators and flexibility towards areas of class interest. Students will gain information from State, Federal and City Law Enforcement hiring processes to assist them in a future career in Law Enforcement.

Fire Service 1-4

Grade 11-12

2 Sem 1 Credit

Apollo, Glendale, Moon Valley, Sunnyslope and Washington

This is a challenging class that explores interesting career opportunities in fire science. Topics will range from the history of the fire services, fire ground activities, fire prevention, technical rescue, hazardous materials, CPR and first aid certifications. This is a unique opportunity for students interested in the fire science program to advance in training and pursue a career in the fire service industry.

HEALTH SERVICES**Health Careers Education 1-2 (HCE)**

Grades 11-12

2 Sem 1 Credit

All campuses

This program includes clinical experience at one of the major hospitals in the Phoenix area. Work experience is scheduled weekly for in class hours, some afterschool and weekends may be requested. Related instruction is conducted at Moon Valley High School. Transportation to and from the hospital/clinical sites is provided by the district. Students work side-by-side with hospital staff in a variety of jobs which include nursing, pharmacy, social services, physical and recreational therapy, x-ray, supply, laboratory, and others. The experience provides students with skills, knowledge, and understanding of occupations of the health field. Certified Nursing Assist (CAN) credentialing exam is available for those who qualify.

Health Careers Education 1-2 Field (HCE)

Grades 11-12

2 Sem 1 Credit

*All campuses****Prerequisite: Student must be co-enrolled in Health Careers Education 1-2 (HCE)*****WEST-MEC****(Course Catalog available on campuses)****ALL WEST-MEC Courses require an application****Please see your counselor for more information and timelines or by visiting west-mec.org****Applications open to ALL GUHSD students.**

English Language Learner Program (ELL)

ELL Conversational English & Academic Vocabulary

Grades 9-12 2 Sem 1 Elective Credit

Prerequisite: Limited English proficiency as determined by assessment; placement based on the recommendation of ELL Department. Concurrent enrollment in the following four ELL courses is required: ELL English Grammar, ELL English Reading, ELL English Writing, and ELL Resource.

One focus of ELL Conversational English and Academic Vocabulary is the development of speaking and listening skills for beginning English learners. An additional focus is the development of the English academic vocabulary. Students learn to pronounce words clearly, follow oral directions and commands, respond appropriately to oral questions, and comprehend the organization of academic text. The students are also introduced to target academic vocabulary and simple grammatical forms while speaking on a variety of topics and in a variety of situations, such as spontaneous conversation, prepared dialogues, impromptu speeches, and prepared speeches.

ELL Grammar 1

Grades 9-12 2 Sem 1 Elective Credit

Prerequisite: Limited English proficiency as determined by assessment; placement based on the recommendation of ELL Department. Concurrent enrollment in the following four ELL courses is required: ELL Conversational English/Academic Vocabulary, ELL English Reading, ELL English Writing, and ELL Resource.

The focus of ELL English Grammar is the correct application of grammar when writing and speaking about a variety of topics, in a variety of genres. Students learn to apply correct language conventions, usage, and select verb tenses when writing simple, compound, and complex sentences.

ELL English Reading

Grades 9-12 2 Sem 1 Elective Credit

Prerequisite: Limited English proficiency as determined by assessment; placement based on the recommendation of ELL Department. Concurrent enrollment in the following four ELL courses is required: ELL Conversational English/Academic Vocabulary, ELL Grammar 1, ELL English Writing, and ELL Resource.

The focus of ELL English Reading is the development of oral and silent reading skills for beginning English learners. Students use reciprocal reading strategies for fiction, informational text, and persuasive text. Extensive vocabulary, common Greek and Latin roots and affixes, literary terms, and selected literary elements are introduced. Students learn to analyze text for overall meaning.

ELL English Writing

Grades 9-12 2 Sem 1 Elective Credit

Prerequisite: Limited English proficiency as determined by assessment; placement based on the recommendation of ELL Department. Concurrent enrollment in the following four ELL courses is required: ELL Conversational English/Academic Vocabulary, ELL Grammar 1, ELL English Reading, and ELL Resource.

The focus of ELL English Writing is the development of writing skills for beginning English learners. Students learn simple and compound sentence structure. Grammar in context is emphasized. Composition pieces include expository paragraphs, summaries, personal narratives or expressive poems, and business letters.

ELL Resource

Grades 9-12 2 Sem 1 Elective Credit

Prerequisite: Limited English proficiency as determined by assessment; placement based on the recommendation of ELL Department. Concurrent enrollment in Algebra 1 and in four courses of ELL Level 1, ELL Level 2, or ELL Level 3 is required.

ELL Resource is a math intervention program designed to meet the needs of English Language Learners who are preparing for Algebra 1. This program directly addresses individual needs through a diagnostic pre-test and direct instruction in basic math and pre-algebra skills. Emphasis is remediation of deficient math skills.

ELL English Writing 1-2

Grades 9-12 2 Sem 1 LangArts Credit

Prerequisite: Limited English proficiency as determined by assessment; placement based on the recommendation of ELL Department. Concurrent enrollment in the following three additional ELL courses is required: ELL Read180/Reading 1-2, Reading ELL Listening/Speaking/Vocabulary 1-2, and ELL Grammar 2.

The focus of ELL English 1-2 is the development of English writing proficiency along with effective oral presentation skills and reading strategies. Composition pieces include text-based expository essay, summary, personal narrative, business letter, and persuasive text. Students also apply correct language conventions in their writing and locate resources electronically in the Media Center. In conjunction with ELL Read180/Reading 1-2, this course is aligned to the Arizona ELL Proficiency Standards. It will prepare students for state mandated writing assessments.

ELL READ180/Reading 1-2

Grades 9-12 2 Sem 1 Elective Credit

Prerequisite: Limited English proficiency as determined by assessment; placement based on the recommendation of ELL Department. Concurrent enrollment in the following three ELL courses is required: ELL Listening/Speaking/Vocabulary 1-2, ELL Grammar 2, and ELL English Writing 1-2.

READ180 is a reading intervention program designed to meet the needs of students whose reading achievement in English is below grade level. This program directly addresses individual needs through adaptive and instructional software, high-interest literature, and direct instruction in reading skills. Emphasis is placed on phonemic awareness, phonics, fluency, vocabulary, and comprehension. The study of literature is introduced through short stories, poetry, novels, and informational text. Students learn to find evidence to text-based questions, and analyze for literary elements, figurative language, and overall meaning. In conjunction with ELL English 1-2, this course is aligned to the Arizona ELL Proficiency Standards and will prepare students for state mandated reading assessments.

ELL Grammar 2

Grades 9-12 2 Sem 1 Elective Credit

Prerequisite: Limited English proficiency as determined by assessment; placement based on the recommendation of ELL Department. Concurrent enrollment in the following three ELL courses is required: ELL Academic English Reading, ELL English Writing 1-2, and ELL Read180/Reading 1-2.

The focus of ELL Academic English Writing and Grammar is the correct application of grammar when writing and speaking about a variety of topics, in a variety of genres. Students learn to apply correct language conventions, usage, and select verb tenses when writing simple, compound, and complex sentences. This class may be repeated for credit.

ELL Listening/Speaking/Vocabulary 1-2

Grades 9-12 2 Sem 1 Elective Credit

Prerequisite: Limited English proficiency as determined by assessment; placement based on the recommendation of ELL Department. Concurrent enrollment in the following three ELL course is required: ELL Grammar 2, ELL English Writing 1-2, and ELL Read 180/Reading 1-2.

ELL Listening/Speaking/Vocabulary 1-2 introduces students to academic vocabulary, and introduces the academic skills of listening and note-taking, making presentations, and reading and writing in a variety of genres focusing on providing text-based evidence to questions and text-based writing.

ELL English Writing 3-4

Grades 9-12 2 Sem 1 Lang Arts Credit

Prerequisite: Limited English proficiency as determined by assessment; placement based on the recommendation of ELL Department. Concurrent enrollment in ELL Reading 3-4 is required. Concurrent enrollment in ELL Grammar 2 may also be required.

The focus of ELL English 3-4 is the development of English writing proficiency along with effective oral presentation skills and reading strategies. Composition pieces include text-based expository and argument essays, workplace documents, poetry or expressive piece, and a research project. Students learn to apply correct language conventions in their writing and locate resources electronically in the Media Center. In conjunction with ELL Reading 3-4, this course is aligned to the Arizona ELL Proficiency Standards and will prepare students for the state mandated writing assessments.

ELL Reading 3-4

Grades 9-12 2 Sem 1 Elective Credit

Prerequisite: Limited English proficiency as determined by assessment; placement based on the recommendation of ELL Department. Concurrent enrollment in ELL English Writing 3-4 is required. Concurrent enrollment in ELL Grammar 2 may also be required.

The focus of ELL Reading 3-4 is the development of reading strategies for comprehension of fiction, persuasive, and functional text. The study of literature is continued through short stories, poetry, novels, and informational text. Students learn to find evidence to text-based questions, and analyze for literary elements, figurative language, and overall meaning. Effective oral and written communication skills and common Greek and Latin roots and affixes are also taught. In conjunction with ELL English 3-4, this course is aligned to the Arizona ELL Proficiency Standards and will prepare students for the state mandated reading assessment.

World Language

(World Language course offerings vary by campus)

World Language Level 1-2

Grades 9-12

2 Sem 1 Credit

The first year foreign language course enables students to function at a novice level of proficiency in the four skills of language acquisition: speaking, writing, reading, and listening. Basic grammar structures are learned so that the student can communicate in the present moment in simple survival situations.

Cultural aspects of the people and countries where the target language is spoken are explored through a variety of activities including videos, music, and enrichment activities.

- French 1-2
- German 1-2
- Japanese 1-2
- Spanish 1-2

World Language Level 3-4

Grades 9-12

2 Sem 1 Credit

Prerequisite: Successful achievement in Level 1-2 or teacher recommendation

The second year foreign language course expands upon the student's proficiency skills of speaking, writing, reading, and listening with emphasis on describing personal activities in the simple past. Further investigation of the cultural aspects of the people and countries where the target language is spoken are explored.

- French 3-4
- German 3-4
- Japanese 3-4
- Spanish 3-4

Heritage Speakers Spanish

Grades 9-12

2 Sem 1 Credit

Prerequisite: Enrollment in Spanish 1-2 OR placement exam proficiency

This course is designed for the native Spanish speaker who wants to meet the foreign language requirement for the GUHSD Endorsed Diploma. Course content will emphasize increasing student literacy in Spanish through the use of academic vocabulary, the study of grammar, and extensive reading and writing in Spanish. In addition, cultural aspects of the people and countries where Spanish is spoken are explored through a variety of activities including videos, music, and enrichment activities. This course content will prepare students to move on to the Honors 5-6 and Advanced Placement courses.

World Language Honors Level 5-6

Grades 9-12

2 Sem 1 Credit

Prerequisite: Successful achievement in Level 3-4 AND teacher recommendation

The student's proficiency in the language skills of speaking, writing, reading, and listening are further enhanced by focusing on detailed descriptions of memorable events in the past. A focus on accurate language usage begins the two-year preparation for the college placement exam thus granting accelerated credit to this third year course. Investigation into more detailed cultural aspects of the target language's country and people are explored.

- Honors French 5-6
- Honors German 5-6
- Honors Japanese 5-6
- Honors Spanish 5-6

World Language Advanced Placement Level

Grades 9-12

2 Sem 1 Credit

Prerequisite: Successful achievement in Honors Level 5-6 AND teacher recommendation

Advanced Placement foreign language is designed to prepare students to pass the College Board's Advanced Placement examination which may grant college credit from most colleges and universities. Intense preparation is performed in the four language skill areas with students reading authentic language articles and modern short stories, writing extended essays and short plays, and listening to authentic language excerpts leading to a high level of comprehension and communication. Further cultural studies with authentic materials are explored.

- Advanced Placement French
- Advanced Placement German
- Advanced Placement Spanish

Note: The above Advanced Placement courses are contingent upon enrollment numbers.**Honors Japanese 7-8**

Grades 9-12

2 Sem 1 Credit

Prerequisite: Successful achievement in Honors Level 5-6 AND teacher recommendation

Japanese 7-8 is designed to prepare students to continue their studies at a college or university level. Intense preparation is performed in the four language skill areas with students reading authentic language articles and modern short stories, writing extended essays and short plays, and listening to authentic language excerpts leading to a high level of comprehension and communication. Further cultural studies with authentic materials are explored.

Language Arts

Regular and Honors English 1 through 8 are aligned to the Arizona College and Career Ready Standards and will prepare students for the state assessment.

READ 180/English 1-2

Grade 9

2 Sem 2 Credits

Prerequisite: Placement based on 8th grade assessment, 9th grade SRI testing and teacher recommendation. Concurrent enrollment in an English 1-2 class is required.

READ 180 is a reading intervention program designed to meet the needs of students whose reading achievement is below grade level. This program directly addresses individual needs through adaptive and instructional software, high-interest literature, and direct instruction in reading skills. Emphasis is on the skills of phonemic awareness, phonics, fluency, vocabulary, and comprehension. The class is blocked with English 1-2.

English 1-2

Grade 9

2 Sem 1 Credit

Composition units focus on writing the expository, narrative, and argument essays, summaries of informational texts, and research. Students learn to apply correct language conventions in their writing. Students are taught to read closely and analyze literary devices in a variety of literature, poetry and short stories. In addition to these subjects, high school study skills, oral presentation skills, and test taking skills are taught; an introduction to the use of the media center is included. In addition, students incorporate technology in their assignments.

Honors English 1-2

Grade 9

2 Sem 1 Credit

Prerequisite: Teacher recommendation

An intensified program of study, this course introduces the skills needed for critical reading and written analysis of literature. Specific literary types such as the short story, non-fiction, the novel, drama, and poetry are studied. Composition instruction stresses mastery of expository, narrative, and argument essay forms. Emphasis is also placed on intensive review of usage and mechanics, vocabulary development, oral presentation skills, and the use of research skills.

English 3-4

Grade 10

2 Sem 1 Credit

Composition units focus on writing the expository, narrative and argument essay, and the research report which includes a synthesis of informational text. Students are taught to apply correct language conventions in their writing. A study by genre continues students' exposure to literature. Students are taught to read closely and analyze. Other literary forms, including novels and drama, are also read and analyzed. A media center research unit is included as well as a unit on oral presentation skills. In addition, students incorporate technology in their assignments.

Honors English 3-4

Grade 10

2 Sem 1 Credit

Prerequisite: Successful completion of English 1-2 and teacher recommendation

An intensified program of study, this course includes extensive practice in various essay forms and an introduction to media center research. Emphasis is placed on critical reading and analysis of a variety of literary forms which include the short story, novel, drama, and poetry. The students review correct language conventions, develop vocabulary skills as they relate to the study of world and American literature and develop oral presentation skills.

English 5-6

Grade 11

2 Sem 1 Credit

Composition units focus on the expository, narrative and analytical argument essays. A research unit is included with instruction on the research process and documentation of sources. Students are taught to use the processes of revision and editing to apply correct language conventions in their writing. Emphasis is placed on the interpretation of essays, biographies, poems, short stories, plays, and novels primarily from American literature. Students are also expected to improve their oral presentation and literary analysis skills.

Advanced Placement Language

Grade 11

2 Sem 1 Credit

Prerequisite: Successful completion of English 3-4 and teacher recommendation

Advanced Placement English provides the accelerated college-bound English student with three unique advantages: The student studies challenging college level works of recognized literary merit, develops power and precision in organizing, expressing ideas in rhetorical analysis and analysis on argument, and takes the College Board's Advanced Placement Language and Composition examination in English. Success on this exam may grant credit or advancement placement at many colleges and universities. All students are required to take the College Board's examination for this subject.

English 7-8

Grade 12

2 Sem 1 Credit

Composition units focus on a problem-solution essay and workplace documents. Students also focus on narrative and argument essays. A research unit is included with instruction on the research process and documentation of sources. Students are taught to use the processes of revision and editing to apply correct language conventions in their writing. Emphasis is placed on the interpretation of essays, biographies, poems, short stories, plays, and novels primarily from English literature. Students are also expected to improve their oral presentation and literary analysis skills.

Advanced Placement Literature

Grade 12

2 Sem 1 Credit

Prerequisite: Successful completion of English 5-6 or AP Language and teacher recommendation

Advanced Placement English provides the accelerated college-bound English student with three unique advantages: The student studies challenging college level works of recognized literary merit, develops power and precision in organizing and expressing ideas in college-level essay writing, and takes the College Board's Advanced Placement Literature examination in English. Success on this exam may grant credit or advancement placement at many colleges and universities. All students are required to take the College Board's examination for this subject.

Journalism 1-2

Grades 9-12

2 Sem 1 Credit

Students learn newspaper production with special emphasis on the following areas: news, feature, editorial and sports writing, headline writing and typography, editing and copy reading, page makeup and design, advertising, press law and responsibility. Optional units of study include history of journalism and broadcasting. This course is designed to prepare students for successful publication of the school newspaper.

Journalism 3-4

Grades 10-12

2 Sem 1 Credit

Prerequisite: Journalism 1-2 or teacher recommendation

Journalism 3-4 students produce the school newspaper as a laboratory instrument. This class includes practical application of newspaper production skills such as planning, editing, financing and distributing the paper, writing headlines and stories, and designing pages. Other units of study include research techniques and analysis of current events and the professional communications media. Maturity, responsibility and willingness to work and meet deadlines are required personal attributes. At some schools students also publish newsletters, write for local newspapers, produce a literary magazine and a 5-minute video newscast, and write and print a school calendar.

Journalism 5-6

Grades 11-12

2 Sem 1 Credit

Prerequisite: Journalism 3-4 and teacher recommendation

Journalism 5-6, with emphasis on advanced newspaper production, is offered to students who wish to explore the field of journalism for a third year, generally in management or editorial-level positions. Students learn procedures for submitting articles and photographs for professional publication and investigate career opportunities in the professional media or in journalism education.

Journalism 7-8

Grade 12

2 Sem 1 Credit

Prerequisite: Journalism 5-6 and teacher recommendation

Journalism 7-8 emphasizes refinement of learned skills and is offered to students who may be planning to pursue a career in the field. Additional units of study include communication law, graphic design, and consumer surveying. Students are encouraged to submit work to professional publications.

Mathematics

The state of Arizona requires, at a minimum, a student successfully complete Algebra 1, Geometry, Algebra 2 (or its equivalent) and an additional course with significant math content as determined by the Glendale Union High School District for graduation from high school.

Algebra 1 Grades 9-12 2 Sem 1 Credit

Prerequisite: Arizona Mathematics Standards for eighth grade graduation

The Algebra 1 course begins with connections back to early Algebra, reviewing algebraic concepts that students have already studied while at the same time moving students forward into the ideas described in the Arizona College and Career Readiness Standards. Students contrast exponential and linear functions as they explore exponential models using the tools of tables, graphs, and symbols. Finally, they apply these same tools to a study of quadratic functions. Throughout, the connection between functions and equations is made explicit to give students the opportunity to model and make sense of problems.

Honors Algebra Grades 10-12 2 Sem 1 Credit

Prerequisite: Arizona Mathematics Standards for eighth grade graduation, teacher recommendation and/or placement test score.

This course covers all topics in Algebra in more depth and with greater rigor. Students placed in Honors Algebra are expected to remain in the Honors sequence for all four years of high school.

Geometry Grades 9-12 2 Sem 1 Credit

Prerequisite: Successful completion of Algebra 1

The Geometry course begins with connections back to geometric concepts learned in earlier courses and extend those ideas to new concepts presented in the Arizona College and Career Readiness Standards. There is a focus on modeling, problem solving, transformations, proof, and constructions throughout the course. The student will be required to demonstrate knowledge of these skills and their application within and without the field of mathematics.

Honors Geometry Grades 10-12 2 Sem 1 Credit

Prerequisite: Successful completion of Honors Algebra 1 course and teacher recommendation.

This course covers all topics in Geometry in more depth and with greater rigor.

Algebra 2 Grades 10-12 2 Sem 1 Credit

Prerequisite: Geometry

Algebra 2 extends the knowledge students have of algebraic and statistical concepts learned in earlier courses and extend those ideas to new concepts presented in the Arizona College and Career Readiness Standards. They have investigated linear, exponential, and quadratic functions in previous years. Algebra II further develops important mathematical ideas introduced in Algebra I by extending techniques to solve equations and students' knowledge of functions by studying inverses and new function families: polynomial, radical, trigonometric, and rational functions. Students will also study probability and statistics. The student will be required to demonstrate knowledge of these skills and their application within and without the field of mathematics.

Honors Algebra 2 Grades 9-12 2 Sem 1 Credit

Prerequisite: Successful completion of Honors Geometry and teacher recommendation

This course covers all topics in Algebra 2 in more depth and with greater rigor. This course is a college preparatory course for those students who plan to take Calculus.

College Algebra

Grades 10-12

2 Sem 1 Credit

Prerequisite: Algebra 2

This course also attends to the entrance requirements for Arizona universities, and is required for the endorsement. It includes topics traditionally included in a College Algebra course, which are, among others, algebra, trigonometry, analytic geometry, functions, matrices, and logarithmic functions. Fulfills the 4th credit of the Arizona Board of Regents Coursework Competency Requirements in mathematics for admission into a university in the state of Arizona.

Advanced Placement Calculus AB

Grade 12

2 Sem 1 Credit

Prerequisite: Successful completion of Honors Pre-Calculus or College Algebra and teacher recommendation

This course consists of a full academic year of work in Calculus and related topics comparable to first semester courses in colleges and universities. All students are required to take the College Board's examination for this subject. Success on this exam may grant credit or advancement placement at many colleges and universities. Fulfills the 4th credit of the Arizona Board of Regents Coursework Competency Requirements in mathematics for admission into a university in the state of Arizona.

Advanced Placement Calculus BC

Grade 12

2 Sem 1 Credit

Prerequisite: Successful completion of Calculus AB and teacher recommendation

Calculus BC can be offered by schools that are able to complete all the prerequisites before the course. Calculus BC is a full-year course in the calculus of functions of a single variable. It includes all topics covered in Calculus AB plus additional topics. Both courses represent college-level mathematics for which most colleges grant advanced placement and credit. All students are required to take the College Board's examination for this subject. Success on this exam may grant credit or advancement placement at many colleges and universities. Fulfills the 4th credit of the Arizona Board of Regents Coursework Competency Requirements in mathematics for admission into a university in the state of Arizona.

Math Intervention Lab

Grade 9

2 Sem 1 Elective Credit

Prerequisite: Placement based on 7th grade Arizona Instrument to Measure Standards (AIMS) math score, placement testing, and/or teacher recommendation. Concurrent enrollment in an Algebra class is required.

Math Intervention Lab is a math intervention program designed to meet the needs of students whose math achievement is below grade level. This program directly addresses individual needs through a diagnostic pre-test, adaptive and instructional software, and direct instruction in Algebra skills. Emphasis is on the support of the Algebra curriculum along with remediation in deficient math skills. The class is blocked with Algebra.

Personal Finance 1-2

Grade 12

2 Sem 1 Credit

Prerequisite: Geometry or concurrent enrollment in Geometry in Grade 12

In this course, students will be involved in financial planning and self-management skills for the future. Areas of study will include planning for educational expenses, personal and household budgeting, taxes, banking, investing, insurance, credit procedures, rights and responsibilities of consumers, and long-range financial planning. A foundation of economics will be included to make informed real-world financial decisions and apply decision-making skills to make effective use of income to achieve personal financial success. This course **does not** fulfill Arizona Board of Regents Coursework Competency Requirements in mathematics for admission into a university in the state of Arizona.

Statistics 1-2

Grades 11-12

2 Sem 1 Credit

Greenway, Independence, and Sunnyslope only

Prerequisite: Successful completion of Algebra 2, College Algebra, or Honors Pre-Calculus and teacher recommendation.

In this course students will be introduced to the major concepts of probability, interpretation of data, and statistical problem solving. Students will learn the course concepts through instruction, hands-on experimentation and investigation. They will analyze existing data as well as data collected through a survey, observational study or experiment. They will then display the data in different ways, analyze it, and draw conclusions based on the results. The four main components of the course are: exploring data, data collection, probability, and inference.

AP Statistics

Grade 11-12

2 Sem 1 Credit

Moon Valley, Sunnyslope, Thunderbird, and Washington only

Prerequisite: Successful completion of Honors Algebra 2, Algebra 2 or Pre-Calculus and teacher recommendation

This is an Advanced Placement course that is equivalent to a college or university statistics course. The course covers introductory material for statistical analysis including analysis of data, surveys, observational studies, experiments, patterns, probability, and random variables. The later part of the course will cover statistical inference including hypothesis testing, confidence intervals, goodness of fit and tests of independence. Success on this exam may grant credit or advancement placement at many colleges and universities. All students are required to take the College Board's examination for this subject. A calculator with statistical functions is required, students are strongly encouraged to purchase a TI 84. This course fulfills the 4th credit of the Arizona Board of Regents Coursework Competency Requirements in mathematics for admission into a university in the state of Arizona.

Naval Science (NJROTC)

All campuses except Sunnyslope and Washington

The Naval Science course, under the Naval Junior Reserve Officers Training Corps program (NJROTC), is based on meeting the needs of today's high school student. While military oriented, the purpose of the course is to instill in each student the values of citizenship, service to the United States, personal responsibility, and a sense of accomplishment. The objectives of the class are as follows: promote patriotism; develop informed and responsible citizens; promote habits of orderliness and precision; develop respect for constituted authority; and develop a high degree of personal honor, self-reliance, individual discipline and leadership. Additionally, the course promotes an understanding of the basic elements and requirements for national security; develops respect for and an understanding of the need for authority in a democratic society; provides incentives to live healthy and drug free; develops leadership potential; promotes high school completion; and provides information on the military services as a possible career. All enrolled students are encouraged to participate in numerous field trip opportunities available throughout the school year. Naval Science is open to all students, with regular academic credit toward graduation. Although the course is designed as a four-year program of instruction with entry normally at the freshman or sophomore level, adjustments can be made and credit granted for each semester completed. Students taking Naval Science are eligible for participation in the course related co-curricular activities which may include the drill teams, color guard, air rifle team, orienteering team, academic team, athletic team, community service activities, and Rocket Club. Students who complete a minimum of two years of Naval Science may receive advanced status and increased pay should they decide to enlist in any branch of the Armed Forces or National Guard. Several scholarship opportunities are available to the military service academies and selected Reserve Officer Training Corps (ROTC) colleges and universities. No military service obligation is incurred by taking any Naval Science course.

Naval Science 1-2 Grades 9-11 2 Sem 1 Credit

The student is introduced to the Naval Science program. Subjects include: Introduction to the NJROTC Program, Introduction to Leadership, Citizenship, The Foundations of our Government, Navy Ships and Aircraft, Introduction to Military Customs and Courtesies, Wearing the Naval Uniform, and an Introduction to Military Drill and Ceremonies.

Naval Science 3-4 Grades 10-11 2 Sem 1 Credit

Prerequisite: Naval Science 1-2 or Senior Instructor recommendation

The student is exposed to an intermediate level within the Naval Science program. Subjects include: Maritime History, Leadership, Maritime Geography, Oceanography, Meteorology and Weather, Astronomy, Physical Sciences, and advanced Military Drill and Ceremonies.

Naval Science 5-6 Grades 11-12 2 Sem 1 Credit

Prerequisite: Naval Science 3-4 or Senior Instructor recommendation

The student is instructed at an advanced level within the Naval Science program. Subjects include: Sea Power and National Security, Naval Operations and Support Functions, Military Law, International Law and the Sea, Ship Construction and Damage Control, Shipboard Organization, Basic Seamanship, Marine Navigation, Rules of the Road and Maneuvering Board, Naval weapons and Aircraft, and supervision of Military Drill and Ceremonies.

Naval Science 7-8 Grade 12 2 Sem 1 Credit

Prerequisite: Naval Science 5-6 or Senior Instructor recommendation

The student is placed in a leadership role within the Naval Science program. As senior students their responsibilities are similar to those of junior officers in the Navy. Subjects include: Human Motivation, Group Dynamics, Leadership Techniques, Responsibilities and Qualities of a Leader, and Achieving Effective Communication. Additionally, students are expected to assist the Naval Science Instructors in the regular conduct of classes; act as drill instructors; plan, organize, and conduct extra-curricular activities; plan, prepare, and present lessons in certain academic areas, as well as evaluate subordinates performance and potential, including morale, behavior and performance of their particular class.

Non-Departmental

Leadership Grades 9-12 2 Sem 1 Credit

Prerequisite: Election to Student Council or permission of the teacher

This course is designed to provide students with an awareness of the intricacies of representative government and communications through direct involvement with both processes. Classroom instruction is combined with leadership experience through student council meetings, committee meetings, event planning and projects. This course may be repeated for credit.

Library Media Services Grades 9-12 2 Sem 1 Credit

Students will be trained to assist in various aspects of Media Center operation and organization. Students will also be working with computers and AV equipment. Since public relations skills are important in the Media Center, students should be enthusiastic, reliable and self-directed. Library Media Services students are graded on their attitude, attendance, efficiency, responsibilities and tests. This course may be repeated for credit.

Peer Tutoring

Grades 9-12 1/2 Sem 1/2 - 1 Credit

All campuses except Sunnyslope

Peer tutors will receive diagnostic and instructional training. Skills acquired from this training will be used to assist students in one-on-one and small group instructional situations. The goal of every peer tutor will be to ensure that each student receives the additional help he/she needs in meeting the objectives or outcomes for his/her class(es). Peer tutors will be assigned according to local school needs. This course may be repeated for credit.

Publication Production (Yearbook)

Grades 9-12

2 Sem 1 Credit

All campuses except Washington

Prerequisite: Teacher approval

Reliable students with time to devote to producing the school yearbook are encouraged to sign up for this class. Units include writing copy, designing pages, and organizing the book. Meeting deadlines is vitally important to ensure books are delivered on time. Mastery of typing, graphic arts, journalism, or photography is recommended. Other publications such as handbooks or magazines may be produced, and photography skills may be taught at some schools. This course may be repeated for credit.

Performing Arts

DANCE

Dance – Beginning

Grades 9-12

2 Sem 1 Credit

Students will be introduced to a variety of dance forms that may include jazz, modern, partnering, ballet, lyrical, musical theatre, tap, hip hop, and ethnic. Students will receive instruction in composition, improvisation, production, history, vocabulary, and performance. Students will develop an appreciation of dance through participation, observation, and self-evaluation. Performance is a requirement of all dance classes. If you are unwilling to perform in front of your classmates or other audiences, you may not enroll in any dance class. Participation in all performances, including dress rehearsals, is required. This course may not be repeated for credit.

Dance – Intermediate

Grades 9-12

2 Sem 1 Credit

Prerequisite: Audition and teacher recommendation

This course is for students with exceptional skills and an ability to contribute to a performance troupe. Students will advance their studies of a variety of dance forms. Students will receive advanced instruction in technique, history, vocabulary and performance. Students will further enhance their appreciation of dance through participation, observation, and self-evaluation. Performance is a requirement of all dance classes. If you are unwilling to perform in front of your classmates or other audiences, you may not enroll in any dance class. Participation in all performances, including dress rehearsals, is required. This course may be repeated for credit.

Dance – Advanced

Grades 9-12

2 Sem 1 Credit

Prerequisite: Audition only teacher recommendation

This course is for students with exceptional skills and an ability to contribute to a performance troupe. Students will advance their studies of a variety of dance forms. Students will receive advanced instruction in technique, history, vocabulary, and performance. Students will further enhance their appreciation of dance through participation, observation, and self-evaluation. Performance is a requirement of all dance classes. If you are unwilling to perform in front of your classmates or other audiences, you may not enroll in any dance class. Participation in all performances, including dress rehearsals, is required. This course may be repeated for credit.

INSTRUMENTAL MUSIC

Band – Beginning (Brass, woodwind, percussion) Grades 9-12 2 Sem 1 Credit
All campuses except Thunderbird

This class is designed for any student who has a desire to play a band instrument. A limited number of instruments are available. The course consists of instruction in the fundamentals of music notation, the development of fundamental playing skills, tone production and development of proper attitude. This course may be repeated for credit.

Band – Intermediate Grades 9-12 2 Sem 1 Credit
Prerequisite: One year of beginning band and/or audition by the director

Activities may include marching in football games and parades, performing in concerts, etc. The course includes continued development of music reading skills, further development of technique, increased emphasis on tone production and intonation, development of attitude with emphasis on group participation. Elements of music theory and music listening are included. Attendance at all performances is required. This course may be repeated for credit.

Band – Advanced Grades 9-12 2 Sem 1 Credit
Prerequisite: One or more years of band experience and/or audition by the director

Activities include marching in football games and parades, performing in concerts, music festivals, pep rallies, assemblies, etc. The course includes development of sight reading skills, development of fluent technique, perfection of tone production and intonation with emphasis on ensemble quality, acceptance of all responsibilities of group participation. Elements of theory and music listening, and music history are included. Attendance at all performances is required. This course may be repeated for credit.

Guitar - Beginning Grades 9-12 2 Sem 1 Credit
Cortez, Greenway, Independence, Moon Valley, Thunderbird and Washington

This course is designed for those interested in learning how to play classical guitar from the beginning level. The student will develop skills in reading music, the use of the guitar fret board, the use of chord symbols, the basic tuning and care of the guitar, the basic methods of playing chords. The school has a limited number of guitars available for student use; however, the student should be prepared to furnish his/her own guitar. Rentals are available through local music dealers. This course may be repeated for credit.

Guitar - Intermediate Grades 9-12 2 Sem 1 Credit
Cortez, Greenway, Moon Valley and Washington

Prerequisite: Successful completion of Beginning Guitar and instructor approval
This course is designed for those students who have attained basic technique on the guitar and can read music. Students will further develop their technique in solo as well as ensemble, and will cover music of moderate difficulty. This course may be repeated for credit.

Guitar - Advanced Grades 9-12 2 Sem 1 Credit
Cortez, Greenway, Moon Valley and Washington

Prerequisite: Successful completion of Intermediate Guitar and/or Audition by the instructor
Designed as an elective performance organization primarily involved with ensemble performance techniques, the Advanced Guitar student prepares music to be performed at schools, community organizations, and concerts. Development of music reading skills, advanced technique, and acceptance of all responsibilities of group participation is required. This course may be repeated for credit.

Jazz Ensemble Grades 9-12 2 Sem 1 Credit

Prerequisite: Audition by the director

This course is designed for those students who have an interest in performing jazz/jazz-rock literature. Course includes development of sight-reading skills in various jazz styles, ensemble playing, rhythmic interpretation and improvisation methods. Acceptance of all responsibilities of group participation and attendance at all performances is required. This course may be repeated for credit.

Orchestra Grades 9-12 2 Sem 1 Credit

All campuses except Cortez

Prerequisite: Approval of the director

Students in the beginning to advanced levels of development will receive instruction in the basic fundamentals of string instruments; bowing, technique and tone production. Student may be required to provide his/her own instrument. Attendance at all performances is required. This course may be repeated for credit.

Piano Grades 9-12 2 Sem 1 Credit

All campuses except Greenway, Moon Valley and Washington

This class is open to beginning, intermediate or advanced pianists who wish to study piano or improve their piano skills. Musical styles to be studied will include classical, popular, jazz, folk, country western, and rock and roll. Techniques in the fundamentals of music, sight-reading, and transposition will be basic to the course structure. Opportunities for qualified students to perform in public concerts will be encouraged. This course may be repeated for credit.

THEATRE

Theatre Arts 1-2 Grades 9-12 2 Sem 1 Credit

Designed to introduce the student to the basic elements of theatrical arts, this course includes units on acting, technical theatre, history, directing, and drama as literature. Activities for the class to include pantomime, voice, dialect study, set construction, painting, lights, sound, and play analysis through in-class performance and written work.

Theatre Arts 3-4 Grades 10-12 2 Sem 1 Credit

Prerequisite: Theatre Arts 1-2 or teacher recommendation

This course emphasizes practical hands-on application of the basic skills of the theatre arts introduced in 1-2. Additional units in advanced acting techniques, mime, improvisation, make-up, lights, sound, and set design are included. Individual growth in all areas relating to theatre arts in the school and the community is encouraged through performance, written work, outside reading and attendance of outside productions. As in all theatre classes, emphasis will be on demonstration and practical experience in a working atmosphere.

Theatre Arts 5-6 Grades 11-12 2 Sem 1 Credit

Prerequisite: Theatre Arts 3-4 and/or teacher recommendation

This advanced course for career-minded theatre students is a performance-oriented course in which the skills and knowledge acquired in Theatre Arts 1-2 and 3-4 are used. Advanced work in acting, directing, and technical theatre is included. Students will be active in production work throughout the year by working on scenes, plays, and audition monologues.

Theatre Arts 7-8

Grade 12

2 Sem 1 Credit

Prerequisite: Theatre Arts 5-6 and/or teacher recommendation

Designed for seniors with a career interest in the theatre, this advanced theatre course emphasizes instruction and practice in production work--technical, acting, and directing. Emphasis is placed on the individual's major interest in the field of theatre.

Production Stage Craft and Design

Grades 10-12

2 Sem 1 Credit

*Cortez, Glendale, Greenway, Moon Valley, Thunderbird and Washington****Prerequisite:*** Theatre 1-2 or Instructor's approval

Students investigate employment opportunities in all areas of technical theatre. Shop safety, attention to detail, problem solving, and positive communication techniques are some specific across curriculum items that will be focused on. Students will be required to complete design projects using professional computer-aided design programs in the areas of set, props, lighting, sound, makeup, and costume. Students will have an opportunity to show their work, make design presentations, and present portfolio reviews through the CTSO student program.

Advanced Production Stage Craft and Design

Grades 11-12

2 Sem 1 Credit

*Cortez, Glendale, Greenway, Moon Valley, Thunderbird and Washington****Prerequisite:*** Theatre 1-2 and Production Stage Craft and Design or Instructor's approval

Students will develop skill in the areas of set, props, lighting, sound, makeup, and costume. The course is for students who plan on pursuing a career in technical theatre. Professional computer-aided design projects will be created for each area of technical theatre. Leadership is mandatory for this course. Students will have opportunities to become crew heads, assistants, and stage managers; furthermore, event management training may lead to students working rentals. Students will have an opportunity to show their work, make design presentations, and present portfolio reviews through the CTSO student program.

VOCAL MUSIC*(All Campuses)***Choir 1-2**

Grades 9-12

2 Sem 1 Credit

This course is designed to give each student the basic fundamentals of vocal production and part-singing. The students also learn basic music notation and sight singing. Attendance at all performances is required. This course may be repeated for credit.

Choir 3-4

Grades 9-12

2 Sem 1 Credit

This course is designed to continue the student's training in proper vocal production and part-singing. The literature presented will be more difficult than that studied in Choir 1-2. Attendance at all performances is required. This course may be repeated for credit.

Concert Choir

Grades 9-12

2 Sem 1 Credit

Prerequisite: Audition by the director

Students chosen for this choir demonstrate good tone production, sight singing ability, and a desire to sing music of a worthwhile quality. A continued emphasis is placed on vocal development and sight singing skills. Attendance at all performances is required. This course may be repeated for credit.

Vocal Ensemble

Grades 9-12

2 Sem 1 Credit

Prerequisite: Audition by the director

The members of the vocal ensemble will learn and perform the finest of choral literature. Music of a variety of periods will be studied. All students have the opportunity to sing solos and to sing in small ensembles. Attendance at all performances is required. This course may be repeated for credit.

Physical Education

A PE uniform is required to be worn in **all** Physical Education classes.

Physical Education 1-2

Grade 9

2 Sem 1 Credit

This required course is designed to introduce students to the fundamental concepts associated with health related fitness and leading a physically active lifestyle. Students will engage in a variety of activities related to improving aerobic fitness, muscular strength and endurance, flexibility, and body composition. Students will also have an opportunity to participate in activities that integrate the five components of health related fitness as well as activities that promote lifetime physical activity. Fitness activities and co-educational units are included in this course and all students will participate in the GUHSD fitness assessment.

Advanced Physical Education

Grades 10-12 1 or 2 Sem 1/2 or 1 Credit

All campuses except Apollo

Prerequisite: Physical Education 1-2

This course can be taken for 1 semester or the full year and is designed to improve skill techniques and to introduce students to leisure and/or lifetime fitness activities. Throughout the year students will be given a choice of activities which may include: Aerobic Conditioning, Archery, Badminton, Basketball, Fitness Activities, Flag Football, Golf, Racquetball, Soccer, Softball, Swimming, Track, Volleyball, Weight Training and Yoga. This course may be repeated for credit.

Systematic Conditioning

Grades 10-12 1-2 Sem 1/2 or 1 Credit

Prerequisite: Must have completed 2 semesters of Physical Education

This course is designed to give the student an opportunity to develop their body systems into peak physical condition and appearance and to have the student understand how to maintain this level throughout life. Each student will develop an individualized program as the principles of conditioning and training are learned. Emphasis will be placed on increasing the muscular structure, running for stamina, physical training and weight controls. Classroom lectures and written tests on the body systems may be included in the course. This course may be repeated for credit.

Science

Integrated Science

Grade 9-12

2 Sem 1 Credit

Students in Integrated Science will utilize an inquiry and literacy approach to focus on the skills of planning and conducting investigations, as well as analyzing and interpreting data. Students will obtain, evaluate, and communicate scientific information. This year long course will allow students to read scientific texts, conduct numerous hands-on data collection opportunities, use mathematical practices, and communicate their scientific knowledge through writing and speaking. The Integrated Science course focuses on the topics of the Scientific Process, Science and Society, Astronomy, Earth's Processes, Weather and Climate, and Physics. The Integrated Science course is aligned with the Arizona Science Standards as well as the Framework for K-12 Science Education. The Integrated Science course is approved as a laboratory science credit for university admission.

Honors Integrated Science

Grade 9-12

2 Sem 1 Credit

Co-requisite: Concurrent enrollment in either Honors English or Honors Math and teacher recommendation

The skills and concepts from the Integrated Science course (as noted above) will be covered in greater detail and depth. Texts, data collection opportunities, and writing assignments will be reflective of an honors level science course.

Biology

Grades 10-12

2 Sem 1 Credit

This is an introductory course in biological sciences. The central theme of this course is scientific investigation and the concepts of change and diversity. Students will acquire a knowledge base in:

- Cells
- Living Systems
- Genetics
- Ecology
- Evolution
- Classification

The Biology curriculum is aligned with the Arizona State Standards and this course is approved as a laboratory course for university admission.

Honors Biology

Grades 9-12

2 Sem 1 Credit

Prerequisite: *Honors Thinking Science and teacher recommendation OR*

Co-requisite: *Honors English 1-2 & Honors Algebra/Geometry, and teacher & parent recommendation.*

Honors Biology classes cover basically the same topics covered in regular Biology, but in greater depth. These students also have the opportunity for in-depth research and/or science fair projects.

Advanced Placement Biology

Grades 11-12

2 Sem 1 Credit

Prerequisite: *Honors Biology, successful completion of Algebra 2, and teacher recommendation. Chemistry recommended or taken concurrently.*

The chemistry and biochemical processes of photosynthesis, cellular respiration, membrane structure and functions, enzyme activity, biomedical genetics, reproductive processes and embryogenesis are covered in depth. Other topics include: Cellular Transport; Anatomy and Physiology of plants and animals; Ecology and Organic Adaptation. This course is recommended for those students who are planning a career in medicine, molecular biology, biochemistry, pharmacy, or pre-dental. Success on this exam may grant credit or advancement placement at many colleges and universities. All students are required to take the College Board's examination for this subject.

Bioscience

Grades 10-12

2 Sem 1 Credit

Sunnyslope only

Students in the Bioscience course will apply scientific principles and technical skills in support of biologists and biotechnologists in research, industrial, and government settings. The program is designed and delivered as a coherent sequence of experiences using technical instruction, academic foundations, experiential learning, leadership, and personal development to cover a number of different topics related to the fields of biomedicine and bio-innovation. Students will be introduced to biosciences through existing hands-on projects and problems. Students investigate human body systems and various health conditions while learning how structure and function contribute to information processing, medicine and medical terminology, research processes, and bioinformatics. Additional key biological concepts taught during the course include homeostasis, metabolism, inheritance of traits, and defense against disease. The experimental design process is embedded throughout the duration of the course. This course is designed to provide an overview of all the courses in the Bioscience Program, provide an opportunity for students to develop a health-care oriented resume, work on job application skills and practices, and lay the scientific foundation for subsequent courses.

Chemistry

Grades 10-12

2 Sem 1 Credit

Prerequisite: Algebra 1 with a minimum grade of C and Geometry concurrently

The central theme of this course is scientific investigation through hands-on laboratory experimentation and the use of conceptual models. A knowledge base will be acquired through units on:

- Properties and composition of substances
- Qualitative and quantitative relationships and measurements of energy
- Descriptions and predictions of the products of chemical reactions
- Physical interactions of matter and energy

The Chemistry curriculum is aligned with the Arizona State Standards and this course is approved as a laboratory course for university admission.

Honors Chemistry

Grades 10-12

2 Sem 1 Credit

Prerequisite: Algebra with a minimum grade of B and taking Geometry concurrently or Honors Algebra/Geometry with a minimum grade of C, and teacher recommendation

Honors Chemistry will cover a wider area of concepts than Chemistry. This class will be lab-oriented with open-ended experiments that will allow students to go beyond the basic principles. Students who need a strong background in Chemistry for their career needs should select this course.

Advanced Placement Chemistry

Grades 11-12

2 Sem 1 Credit

*Greenway only****Prerequisite:*** Successful completion of Honors Chemistry, Algebra with a minimum grade of B and teacher recommendation

Advanced Placement Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

Environmental Science

Grades 11-12

1 Sem .5 Credit

Environmental Science offers an overview of how the various components of the earth interact with each other. It also explores the role humans play in these interactions. The topics covered include human populations and needs, energy resources, effects of pollution, and sustainability practices to reduce human impact. Students will participate in hands-on activities and labs that utilize critical thinking skills and the scientific method. The Environmental Science curriculum is aligned with the Arizona State Standards and this course is approved as a laboratory course for university admission.

Human Science

Grades 11-12

1 Sem .5 Credit

The purpose of Human Sciences is to provide exploratory experiences, labs and real-life application to better understand the structure and function of human anatomy with an emphasis on homeostasis. There is a focus on disorders, disease, behaviors and chemicals that young adults will primarily be exposed to. Students will participate in hands-on activities and labs that utilize critical thinking skills and the scientific method. The Human Science curriculum is aligned with the Arizona State Standards and this course is approved as a laboratory course for university admission.

Honors Physics

Grades 11-12

2 Sem 1 Credit

*Sunnyslope and Thunderbird only****Prerequisite:*** Geometry with minimum grade of C, Algebra 2 concurrently, and teacher recommendation.

In Honors Physics, mathematical concepts are applied to solving problems and deriving laws to help explain natural behavior. Topics covered include: kinematics, dynamics, thermodynamics, wave motion, light, electrostatics, electric circuits, and electromagnetism. This course is needed by those students who plan on entering into a career involving: education, premedical, pre-dental, architecture, forestry, engineering, electronics, communication, chemistry or law.

Advanced Placement Physics

Grades 11-12

2 Sem 1 Credit

*All campuses except Greenway and Cortez****Prerequisite:*** Algebra 2 with a minimum grade of B, and teacher recommendation

Advanced Placement Physics will cover the Advanced Placement curriculum including modern theories such as quantum and relativity, and atomic and nuclear physics. The problem solving that is included in this course requires students to use analysis skills and apply knowledge from a broad range of formulas. Success on this exam may grant credit or advancement placement at many colleges and universities. All students are required to take the College Board's examination for this subject.

Honors Engineering Physics

Grades 11-12

2 Sem 1 Credit

*Moon Valley only****Prerequisite:*** Geometry with minimum grade of C, Algebra 2 concurrently, and teacher recommendation

In Engineering Physics, physics and mathematical concepts are applied to solving problems and deriving laws to help explain natural behavior. Topics covered include: kinematics, forces, momentum and impulse, energy and power, electrical circuits, and thermodynamics. Each unit is designed around an engineering component where students will apply their physics knowledge and the engineering design process. Emphasis is given to integrating science, technology, engineering and math (STEM).

The Engineering Physics course is divided into two semesters. Each semester divided into three units, along with labs conducted during each unit. Students will complete a Capstone Project at the end of the year. In addition to the Science and CTE content standards being addressed within each unit, the Arizona Workplace Employability Skills Standards and Measurement Criteria were used to ensure students are applying complex communication, collaboration, and expert thinking skills, as well as demonstrating intergenerational and cross-cultural competence, professionalism, initiative and self-direction in all classroom activities. Students will be given the opportunity to participate in the CTSO Skills USA competition.

Social Studies**World History & Geography/Arizona Geography**

Grades 10-12

2 Sem 1 Credit

This course is a survey of world history from ancient times to the Modern Age. Students will be instructed to demonstrate analytical skills and have the ability to interpret significant patterns, themes, ideas, beliefs, and turning points in world history.

Advanced Placement World History/Arizona Geography

Grades 10-12

2 Sem 1 Credit

Prerequisite: Teacher recommendation

This course uses the College Board curriculum to investigate the structures and changes in human societies from ancient times to the present. The instruction of this course provides the students with an in-depth study of World History utilizing a college level text, primary and secondary sources, and the writing of free response and document based essays. Success on this exam may grant credit or advancement placement at many colleges and universities. All students are required to take the College Board's examination for this subject.

U.S. & Arizona History/Geography

Grade 11

2 Sem 1 Credit

This course is a survey of United States history from the American Revolution to the current issues of today. Students will be instructed to demonstrate analytical skills and have the ability to interpret significant patterns, themes, ideas, beliefs, and turning points in United States history.

Advanced Placement U.S. & Arizona History/Geography Grades 11-12 2 Sem 1 Credit

Prerequisite: Successful completion of World History and teacher recommendation

This course uses the College Board curriculum which is a survey of United States history from Colonial America through the Modern Era. The instruction of this course provides students with an in-depth study of United States history utilizing a college level text, primary and secondary sources, and the writing of free response and document based essays. Success on this exam may grant credit or advancement placement at many colleges and universities. All students are required to take the College Board's examination for this subject.

U.S. & Arizona Government Grade 12 1 Sem ½ credit

This course is a survey of United States governmental institutions. Students will be instructed to reach an informed position and construct a thoughtful argument utilizing appropriate knowledge of government, economics, history, geography, and United States political institutions.

Economics Grade 12 1 Sem .5 credit

This course is a survey of the U.S. economic system that includes the foundations of economics (scarcity, production and the mixed market economy), microeconomics and macroeconomics, and the role of the U.S. in a global economy. Students will be instructed to reach an informed position and construct a thoughtful argument while applying economic theory to real world situations.

Advanced Placement U.S. & Arizona Government/Economics Grade 12 2 Sem 1 Credit

Prerequisite: Successful completion of US & AZ History and teacher recommendation

This full year course integrates the College Board U.S. Government curriculum with the study of Economics; emphasizing concepts relevant to the study of the role of the federal government and the economy. The College Board curriculum provides students with an in-depth study of United States governmental concepts as well as the principles of political behavior. The instruction of this course utilizes a college level text, primary and secondary sources, and the writing of free response essays. Success on this exam may grant credit or advancement placement at many colleges and universities. All students are required to take the College Board's examination for this subject.

Psychology Grades 11-12 1 Sem .5 Credit

Greenway only

Introduction to psychology gives students a scientific basis for understanding behavior and to have more insight into themselves and their environment through learning to better adapt, cope, react, set goals and make decisions. A sampling of areas of exploration would include: learning, motivation, creativity, emotion, personality, behavioral conditioning and mental illness.

Sociology Grades 11-12 1 Sem .5 Credit

Greenway only

Sociology is the social study of man, culture and society, cultural and social change and ethnic groups. It will encourage students to discover the basic structure of human society, identify the main forces that hold groups together or weaken them, and learn the conditions that transform social life.

Special Education Program

COMMUNITY-BASED

Personal Economics/Math Essentials 1-8 Grades 9-12 2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP)

This course is based on the Individuals with Disabilities Education Act (IDEA). It is designed for students with significant disabilities and addresses basic functional math skills aligned to the Arizona College and Career Ready Standards. Emphasis is on increasing and refining math skills necessary for independent living.

Literacy Essentials 1-8 Grades 9-12 2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP)

This course is based on the Individuals with Disabilities Education Act (IDEA). It is designed for students with significant disabilities and addresses basic reading and written language skills aligned to the Arizona College and Career Ready Standards. Emphasis is on increasing and refining reading and writing skills necessary for independent living.

Science Essentials 1-8 Grades 9-12 2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP)

This course is based on the Individuals with Disabilities Education Act (IDEA). It is designed to address the basic health and science skills of students with significant disabilities and aligned to the Arizona College and Career Ready Standards. Students will actively use the scientific process to understand content and make connections to real life. Emphasis is on promoting healthy independent living skills that helps students approach responsible decision making, exercise and physical fitness, nutrition principles, personal care and appearance, mental and emotional health, stress management, and first-aid.

Social, Recreation & Leisure 1-8 (Essentials) Grades 9-12 2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP)

This course is based on the Individuals with Disabilities Education Act and designed to address the basic skills of students with significant disabilities. This course provides the age-appropriate opportunities and activities in the areas of social, recreation and leisure, which will occur within a variety of natural integrated environments.

Occupational Preparation 1-8 (Essentials) Grades 9-12 2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP)

This course is based on the Individuals with Disabilities Education Act and designed to address the basic workplace skills of students with significant disabilities. The focus of Occupational Preparation is on prerequisite career development skills. Students will complete activities that focus on work readiness such as effective oral, written and listening communication skills. Students will also complete activities that focus on decision making in school or the workplace. This course is aligned to the Arizona Workplace Standard.

C/B Work Experience Grades 11-12 2 Sem 1 Credit

Prerequisite: Self-contained Special Education need as determined by assessment and the student's Individualized Education Plan (IEP). Students must be 16 years or older, and have successfully completed at least two years of high school curriculum.

Work Experience introduces students to the world of work and develops programs that involve students in real workplace situations. The student does not have to have a paid job to receive work experience credit. The United States Department of Labor standards are followed. This course can be repeated once for a total of 2 elective credits.

Adaptive Physical Education

Grades 9-12

2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP)

This course requires a doctor's written recommendation or IEP for the student to enroll. The course is designed to provide students who cannot participate in the regular physical education program for an extended period of time, an opportunity to engage in appropriate physical education activities. The course activities will be designed to meet the individual needs of each student. This course may be repeated for credit.

LIFE SKILLS**Math Fundamentals 1-12+**

Grades 9-12

2 Sem 1 Credit

Prerequisites: Determined by student's Individualized Education Plan (IEP)

This course is based on the Individuals with Disabilities Education Act (IDEA). It is designed for students with mild to moderate disabilities and addresses mathematics skills aligned to Arizona's College and Career Ready Standards. Emphasis is on increasing and refining math skills necessary for independent living.

English Fundamentals A-B

Grades 9-12

2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP)

This course is based on the Individuals with Disabilities Education Act (IDEA). It is designed for students with mild to moderate disabilities and provides explicit, systematic, research-based reading and writing instruction aligned to the Arizona's College and Career Ready Standards. Emphasis is on increasing reading comprehension and writing skills while establishing skills in phonemic awareness and phonics, word recognition and spelling, vocabulary and morphology, and grammar and usage.

Science Fundamentals 1-8

Grades 9-12

2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP)

This course is based on the Individuals with Disabilities Education Act (IDEA). It is designed for students with mild to moderate disabilities and addresses basic health and science skills aligned to the Arizona College and Career Ready Standards. Students will actively use the scientific process to understand content and make connections to real life.

**Personal Economics 1-8
(Fundamentals)**

Grades 9-12

2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP)

This course is based on the Individuals with Disabilities Education Act (IDEA). It is designed for students with mild to moderate disabilities and addresses basic reading and written language skills aligned to the Arizona College and Career Ready Standards. The focus of this course is to enable the student to apply basic math skills necessary for everyday independent living and everyday work situations.

**Occupational Preparation 1-8
(Fundamentals)**

Grades 9-12

2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP)

This course is based on the Individuals with Disabilities Education Act and designed to address the basic reading and written language skills of students with mild to moderate disabilities. The focus of Occupational Preparation is on prerequisite career development skills. Students will complete activities that focus on work readiness such as effective oral, written and listening communication skills. Students will also complete activities that focus on decision making in school or the workplace. This course is aligned to the Arizona Workplace Standards.

Careers Fundamentals 1-8

Grades 10-11

2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP)

This course is based on the Individuals with Disabilities Education Act and designed to address the basic reading and written language skills of students with mild to moderate disabilities. The focus of this course is on the development of work readiness skills for post high school employment. Students complete activities that focus on selecting and planning occupational choices, exhibiting appropriate work habits and behavior, and seeking and securing employment. This course is aligned to the Arizona Workplace Standards.

RESOURCE**Math Reasoning 1-2**

Grades 9-12

2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP) and course placement test.

This course is designed for students who demonstrate the need for instruction on foundational number sense by building number concepts and problem solving skills. The course builds the necessary skills for successful entry into Algebra. Placement in this course is based on skills level and IEP goals and objectives.

Math Reasoning 3-4

Grades 9-12

2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP) and course placement test

This course is designed for students showing proficiency in basic number sense skills, but who need further instruction in working with rational numbers. The course builds the necessary skills for successful entry into Algebra. Placement in this course is based on skills level and IEP goals and objectives.

Math Reasoning 5-6

Grades 9-12

2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP) and course placement test

This course is designed for students who are proficient with number sense and rational numbers, but need foundational skills for pre-algebra. The course builds the necessary skills for successful entry into Algebra. Placement in this course is based on skills level and IEP goals and objectives.

Math Strategies 1-8

Grades 9-12

2 Sem 1 Credit

(Supplemental)***Prerequisite:*** Determined by student's Individualized Education Plan (IEP)

This course is designed to specifically target students who need instruction in math strategies and skills development. This course will focus on strengthening students' problem solving and computational skills that will be applied to all levels of mathematics.

Algebraic Reasoning

Grades 9-12

2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP)

Algebra Skills is designed to target and reinforce algebraic skills and concepts necessary for students to be successful in the Algebra 1 curriculum. Students enrolled in this course must be placed by IEP team decision and have not completed Algebra 1 or higher math courses.

English Fundamentals C-D

Grades 9-12

2 Sem 1 Credit

Prerequisite: Determined by student's Individualized Education Plan (IEP)

This course is aligned to the Arizona College and Career Ready standards in Language Arts and designed to meet the needs of students whose IEP goals and objectives warrant the need for specially designed instruction in the areas of reading and writing.

Literacy Strategies 1-8 Grades 9-12 2 Sem 1 Credit
(Supplemental)
Prerequisite: Determined by student's Individualized Education Plan (IEP)
This course is designed to target students who need improvement in both basic reading and writing skills and is a combination of both the reading and writing strategies courses.

Strategies for Success 1-2 Grades 9-12 2 Sem 1 Credit
Prerequisite: Determined by student's Individualized Education Plan (IEP)
This course is designed to teach skills in organization, reading, note taking, test taking, study skills, time management skills, communication and self-advocacy with an emphasis on application of strategies to content areas.

Personal Skills Development 1-2 Grades 9-12 2 Sem 1 Credit
Prerequisite: Determined by student's Individualized Education Plan (IEP)
The focus of this course is on transition activities as required in each student's IEP. Transition activities may include but are not limited to the following: self-advocacy skills, development of a course of study, identification of needed inter-agency links, completion of career occupational searches, completion of postsecondary school searches, understanding banking procedures, understanding transportation options, understanding voter registration and selective service procedures, and an introduction to types of social/recreation programs in the community. This course is aligned with the transition requirements of the Individuals with Disabilities Education Act.

Learning Skills Grades 11-12 2 Sem 1 Credit
Prerequisites: Determined by student's Individualized Education Plan (IEP).
The focus of learning skills is on completion of general classroom assignments and re-teaching of key concepts from the general education curriculum.

Work Experience 1-4 Grades 11-12 2 Sem 1 Credit
Prerequisite: Determined by student's Individualized Education Plan (IEP). Students must be 16 years or older, and have successfully completed at least two years of high school curriculum.
Work Experience introduces students to the world of work and develops programs that involve students in real workplace situations. The student does not have to have a paid job to receive work experience credit. The United States Department of Labor standards are followed. This course can be repeated once for a total of 2 elective credits.

Visual Arts

Art 1-2 Grades 9-12 2 Sem 1 Credit
An introductory course designed to meet the needs of the student. Art principles are explained with class units exploring their use. A variety of media is used including pencil, ink, watercolor, and paint. The work includes color theory, perspective, basic design, drawing, and painting.

Art 3-4 Grades 10-12 2 Sem 1 Credit
Prerequisite: Art 1-2 and teacher recommendation
This course provides the student opportunities for in-depth exploration of composition, watercolor, drawing, painting, and graphics.

Advanced Art Grades 10-12 2 Sem 1 Credit
Prerequisite: Art 3-4 and teacher recommendation
Students increase their skills through experimentation and research into a variety of two-dimensional media in a studio atmosphere. This course may be repeated for credit.

Advanced Placement Drawing

Grades 11-12

2 Sem 1 Credit

*All campuses except Cortez and Greenway****Prerequisite:*** *Advanced Art and teacher recommendation*

Advanced Placement Drawing is focused on preparation for the College Board's Advanced Placement portfolio exam with emphasis in drawing and painting. The work begun in Advanced Art may be used to prepare a student's portfolio with an emphasis on quality, concentration and breadth.

Digital Photography 1-2

Grades 9-12

2 Sem 1 Credit

Apollo, Greenway, Independence, Sunnyslope, Thunderbird and Washington

This dynamic course instructs students in visual arts and prepares the student to use basic artistic techniques to effectively communicate ideas and information to business and consumer audiences via digital photography. Students will use digital cameras to capture images, computer software to edit images, and learn graphic arts work-flow practices in order to produce business and artistic photography.

Digital Photography 3-4

Grades 10-12

2 Sem 1 Credit

*Apollo, Greenway, Independence, Sunnyslope, Thunderbird and Washington****Prerequisite:*** *Digital Photography 1-2*

Students will increase their photographic and technology skills through experimentation and research into a variety of advanced digital applications. Students will produce and edit advanced digital images for publication in a work-based-environment. Continued study of photos is for the serious photographer willing to dedicate extra-curricular time to the class. This class may be repeated for credit.

Digital Photography 5-6

Grades 10-12

2 Sem 1 Credit

*Apollo, Greenway, Independence, Sunnyslope, Thunderbird and Washington****Prerequisite:*** *Digital Photography 3-4 with teacher recommendation*

Students increase their skills through experimentation and research into a variety of photographic media. Knowledge and skills attained may lead to the opportunity, with instructor approval, to participate in the College Board's Advanced Placement program. This course may be repeated for credit.

Digital Photography 7-8

Grades 10-12

2 Sem 1 Credit

*Apollo, Greenway, Independence, Sunnyslope, Thunderbird and Washington****Prerequisite:*** *Digital Photography 5-6 with teacher recommendation*

Students increase their skills through experimentation and research into a variety of photographic media. Knowledge and skills attained may lead to the opportunity, with instructor approval, to participate in the College Board's Advanced Placement program. This course may be repeated for credit.

Advanced Placement Two-Dimensional Design

Grades 11-12

2 Sem 1 Credit

*Independence, Sunnyslope, Thunderbird and Washington only****Prerequisite:*** *Minimum of two photography courses/credits and teacher recommendation*

Advanced Placement Art is focused on preparation for the College Board's Advanced Placement portfolio exam with emphasis in graphic design and/or photography. The work begun in Advanced Photography may be used to prepare a student's portfolio with an emphasis on quality, concentration and breadth. May include wet lab and/or digital techniques.

Three-Dimensional Design 1-2

Grades 9-12

2 Sem 1 Credit

All campuses

This is an introductory course in which students will produce three-dimensional sculptures in a variety of media such as ceramics, woods, metals, and other materials. This course emphasizes the creative use of the elements of art and principles of design.

Three-Dimensional Design 3-4

Grades 10-12

2 Sem 1 Credit

*All campuses except Glendale***Prerequisite:** *Three-Dimensional Design 1-2 and teacher recommendation*

Students will increase their three-dimensional design skills through experimentation and research into a variety of advanced media applications.

Advanced Three-Dimensional Design

Grades 10-12

2 Sem 1 Credit

*All campuses except Glendale and Sunnyslope***Prerequisite:** *Three-Dimensional Design 3-4 and teacher recommendation*

Students increase their skills through experimentation and research into a variety of three-dimensional media in a studio atmosphere. Knowledge and skills attained may lead to the opportunity, with instructor approval, to prepare for the College Board's Advanced Placement Program. This course may be repeated for credit.

Advanced Placement Three-Dimensional Design

Grades 11-12

2 Sem 1 Credit

*Apollo, Glendale, Independence, Thunderbird and Washington only***Prerequisite:** *Advanced Three-Dimensional Design and teacher recommendation*

Advanced Placement Three-Dimensional Design is focused on preparation for the College Board's Advanced Placement portfolio exam with emphasis in sculpture and ceramics. The work begun in Advanced Three-Dimensional Design may be used to prepare a student's portfolio with an emphasis on quality, concentration and breadth.

Online Instruction

GUHSD online courses are aligned to our district curriculum and can be taken at a distance or at our Online Learning Academy. Students who meet the criteria may take online courses to recover credits and stay on track for graduation. We offer online courses in math, science, language arts, social studies, foreign language, CTE and the arts. More information about our online program can be found at online.guhsdaz.org