



Phoenix Union High School District  
**COURSE CATALOG**  
**2012-2013**

*Mathematics*

*Science*

*Special Education*

*Business*

*English*

*Physical Education / Health*

*ELL*

*Reading*

*Career and Technical Education*

*Performing Arts*

*Art*

*World Languages*

*Social Studies*

*JROTC*

*Family and Consumer Science*

*Magnets*

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Phoenix Union High School District  
**COURSE CATALOG**  
**2012-2013**

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Phoenix, Arizona 85012  
(602) 764-1100  
[www.PhoenixUnion.org](http://www.PhoenixUnion.org)

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## GENERAL INFORMATION AND SPECIAL PROGRAM REQUIREMENTS

### REQUIREMENTS FOR GRADUATION

	PUHSD Graduation Requirements Class of		Entrance Requirements for Arizona Universities
	2010-12	2013	
English	4.0	4.0	4.0
Social Studies	3.0	3.0	2.0
Mathematics (p. A5)	3.0	4.0	4.0
Laboratory Science (p. A6)			3.0
Biology	1.0	1.0	
Additional Lab course(s)	1.0	2.0	2.0
Health Education	0.5	0.5	
Fine Arts <sup>1</sup>			1.0
OR	1.0	1.0	
Career and Technical Education <sup>2</sup>			
World Languages			2.0
Electives	6.5	6.5	
TOTAL	20.0	22.0	
	Credits***	Credits***	

**Notes:**

1. Visual and Performing Arts courses are offered in the following areas: Art, Dance, Theatre Arts and Music.
2. Career and Technical Education courses are offered in the Career and Technical Education areas: Business/Technology Education, Family and Consumer Sciences and Industrial Technology Education.
3. Basic students will meet the same graduation requirements as general education students as determined by the IEP team.

\* Please refer to page A4 for a more detailed explanation of specific entrance requirements.

\*\* ARIZONA INSTRUMENT TO MEASURE STANDARDS (AIMS)  
All students must take the AIMS test as directed by the State Board of Education. Passing the AIMS test as a graduation requirement will be in effect beginning with the graduating class of 2006. (Further details are on page VI.)

### RECOMMENDED REQUIREMENTS FOR GRADUATION -- PRACTICAL STUDENTS

	Class of 2010-12	2013	
English	3.0	3.0	(Applications, Principles, Essentials)
Reading	2.0	2.0	
Mathematics	2.0	2.0	(Applications, Principles)
Science	2.0	2.0	(Applications, Principles)
Social Studies	1.0	1.0	(Essentials)
Adult Survival	2.0	2.0	
Health Essentials	0.5	0.5	
Job Prep Essentials	0.5	0.5	
Vocational Electives	0.0	2.0	(Vocational courses and/or programs)
Electives	7.0	7.0	
TOTAL	20.0	22.0	Credits ***

\*\*\* ARIZONA INSTRUMENT TO MEASURE STANDARDS (AIMS)

All Practical, Basic and C.B.T. students must participate in AIMS testing. Students who meet the criteria for significantly cognitively disabled, as determined by the IEP team, may be eligible for the AIMS-A, an alternative assessment. (Further details on page VI.)

### RECOMMENDED SEQUENCE OF COURSES FOR STUDENTS ENROLLED IN THE PRACTICAL PROGRAM

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
English	English	English	Social Studies
Reading	Reading	Health/Job Prep	Elective
Math	Math	Elective	Elective
Science	Science	Voc. Course	Voc. Course
Adult Survival	Adult Survival		
Elective	Elective		

### GRADUATION REQUIREMENTS FOR DROP-BACK SENIORS

The Governing Board has approved a policy that allows students to complete their high school education under the graduation requirements in effect at the time of their initial enrollment in the District or meet all graduation requirements of the current year.

For specific requirements, refer to the appendix or see your Counseling Department.

### EDUCATIONAL PROGRAMS

The Phoenix Union High School District wishes to inform students, parents, employees and the general public that it provides an equal opportunity educational program. All courses, services and activities are offered in accordance with E.E.O.-A.A.A.P. compliance.

### ATTENDANCE ZONE REGULATIONS

Prior to the fall of 1983, students within the Phoenix Union High School District were allowed to attend the district high school of their choice. This practice was determined by the United States Federal Court to be a contributing factor in disproportionate ethnic balances between the various district schools and is no longer an option.

Each student is now expected to attend the high school in the attendance zone of residency (see attendance zones and map in appendix) with the following exceptions:

1. Students whose transfer would enhance the ethnic balances of both the sending and receiving schools may request a transfer under the ethnic transfer policy;
2. Students with special circumstances, such as the need for adaptive education, may be considered for transfer by filing an application and the appropriate documentation through the principal;
3. Students may apply for special magnet programs offered at each high school. A description follows.

Magnet school transfers can only take place during the first two weeks of any school year. However, students may make application for transfer for any subsequent school year at any time. New residents to the district must make any transfer requests within 10 days of the first day of attendance at a district school. ALL REQUESTS FOR TRANSFER MUST BE FILED WITH THE PRINCIPAL OF THE SCHOOL THE STUDENT IS CURRENTLY ATTENDING. Forms are available in the school's registration office. Questions regarding residency or tuition should be referred to the Specialist for Attendance and Residence at (602) 764-1219. Questions regarding athletic eligibility should be referred to the Director of Athletics at (602) 764-1222. Special problem transfers require the approval of both the sending and receiving schools.

### PLANNING A FOUR YEAR PROGRAM: EDUCATION AND CAREER ACTION PLAN

An ECAP (Education and Career Action Plan) reflects a student's current plan of coursework, career aspirations, and extended learning opportunities in order to develop the student's academic and career goals. The ECAP is developed with the involvement of students, parents and school personnel working together to guide the student in his/her choices and educational experiences. The ECAP is developed with the involvement of students, parents and school personnel working together to guide the student in his/her choices and educational experiences. The ECAP should be revisited and updated on a yearly basis throughout high school and the postsecondary years.

### REGISTRATION

Registration of current 8th grade students for entrance into 9th grade next year will occur during the winter of the current year. Tenth grade, eleventh grade and twelfth grade students will register during the spring. Actual registration procedures

will be explained by the counselors at each high school or partner district. All questions about specific course offerings and graduation requirements should be directed to the counselors or the Assistant Principal for Registration at each school.

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## COURSE LOAD / CREDITS

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1. All students are registered for a full schedule of classes, to taking at least 6 credits per school year. Exceptions are granted only by the written permission of the school administration or the student's parent/guardian, the IEP, or fifth-year status.
2. Credit earned within the Phoenix Union High School District will be granted for (a) successful completion of a course which meets a minimum of 55 minutes daily, five days a week, for at least 18 weeks or equivalent amount of time within the school year; (b) successful completion of the competency option for a particular course or courses (See your counselor for more specific details); (c) successful completion of a Directed Studies class.
3. Course work taken in summer school, night school and approved correspondence programs may be applied toward graduation upon approval of the student's counselor and principal. No more than four correspondence credits will be counted toward graduation and of those no more than one credit may be counted in each discipline (e.g., English, math, etc.).
4. Enrollment as a Student Assistant: A maximum of two units of credit may be earned for Student Assistant. However, no more than 1/2 unit of credit may be earned during any one semester enrollment in Student Assistant.
5. Enrollment in Physical Education: Students will be permitted to register for a maximum of two physical education classes per day (inclusive of Health Education).

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## PLACEMENT IN COURSES

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The District has selected some tests which are used for initial placement of new students into particular courses. The placement guidelines are used in conjunction with factors such as parental preference, student past performance/motivation, teacher recommendation, etc.

Upperclassmen are placed in classes according to the previous course taken, the grades earned, and their program of studies. Ninth graders are placed on the basis of 8th grade placement tests and teacher recommendations.

More intensive assessment assists the placement of students in specialized programs such as English Language Development, hearing lab, basic strand classes, vision lab and practical courses.

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## PLACEMENT: ENGLISH LANGUAGE LEARNERS (ELL)

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The Sheltered English Immersion (SEI) program consists of English-as-a-Second-Language classes which provide English Language Development (ELD), and ELL (Sheltered) content classes.

**English Language Learners (ELL)** -- Students are placed in these courses based on assessment of English and first language skills according to state statute.

**English Language Learners (ELL) Content Courses** -- ELL content courses are intended for students who are learning English and are able to receive most of their instruction in English. The same curriculum is followed as the regular course.

**Bilingual** -- Bilingual courses are intended for students who are learning English but who need to receive most of their instruction in their native language. The same curriculum is followed as the regular course. Students must have parental waivers to be placed in bilingual classes.

Individual assessment of student needs determines student placement in English Language Learners (ELL) and bilingual content courses.

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## PLACEMENT: SPANISH

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Incoming ninth grade students who obtain an appropriate score on the Spanish 3-4 Placement Test will be placed in Spanish 3-4. During the course of Spanish 3-4, students will be given the opportunity to demonstrate competency in and receive ungraded credit for Spanish 1-2.

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## PLACEMENT: SPECIAL EDUCATION

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Students who have been determined eligible for special education and related services, which must include the need for specially-designed instruction, may be enrolled in general education courses with supplementary aids and services, Basic Strand, Practical Strand or Community Skills classes. Generally, the courses are designed to address the same content areas as the general education curriculum. It is expected that the method of instruction and depth of content covered will be modified to meet the instructional needs of the students. The Individualized Education Program (IEP) specifies the special education to be provided as well as the type of setting that is needed by the student (e.g., inclusion, resource or self-contained). Enrollment in certain classes is restricted to students with disabilities only and is specified in the course description.

Community Skills classes are designed for students with moderate, severe and multiple disabilities who require total modification of the general education curriculum. The courses include academic instruction but emphasize those functional skills that will be needed to live as independently and productively as possible. The program is designed to teach these skills in the natural environments in which these skills are to be used, such as school, vocational, recreational and community settings.

Practical Strand classes are designed for students with mild cognitive disabilities who require total modification of the general education curriculum. These students are instructed in the Arizona Alternative Academic Standards. The academic ability of these students is at or below the 3rd grade level. The courses include academic, functional, and job preparation skills instruction with an emphasis on practical concepts that will be needed for work and independent living.

Basic Strand classes are designed for students who require significant modification of the general education curriculum. The courses will emphasize remediation and compensation strategies for addressing behavior and academic achievement. The course content is expected to be similar in scope to that in the general education curriculum.

**Inclusion codes** indicate that significant curriculum modifications are required for the student in regular education classes in order for the student to meet success. Significant curriculum modifications need to be determined by the student's IEP team.

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## PLACEMENT: GIFTED

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Gifted students are capable of exceptionally high performance or achievement in general intellectual ability, specific intellectual/academic ability, creative thinking ability, psychosocial/leadership ability, visual or performing arts ability, or psychomotor ability.

Students who score at the 88th percentile or higher on nationally-normed tests, such as the Stanford-9, are referred to their school's Gifted Facilitator for testing. Students who are successful on one of the State of Arizona approved gifted assessments scoring at the 97th percentile are eligible for gifted students services. Visual and performing arts students may be identified as gifted/talented through performance recitals and/or teacher recommendation.

Services for gifted identified students are mandated by the



State of Arizona. The PUHSD provides the following services for gifted students: Honors (H) and Advanced Placement (AP) courses, dual high school/college credit, accelerated high school placement, a Seminar for Honors Students, summer enrichment activities, field trips and special projects.

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## PLACEMENT: HONORS (H) / ADVANCED PLACEMENT (AP)

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**HONORS** – Identified gifted students and other high-achieving students are eligible to enroll in Honors courses available in subject areas such as English, mathematics, science, social studies and foreign language. Only students earning grades of A, B or C will earn Honors credit which allows for an additional weight on a student's GPA.

While there is no minimum test score required for placement in Honors courses, it is highly recommended that students achieving a minimum score at the 88th percentile or above on a standardized test be enrolled in Honors courses. Parent request and counselor and teacher recommendations should be key factors in placement.

**ADVANCED PLACEMENT (AP)** – Through college-level AP courses, you enter a universe of knowledge that might otherwise remain unexplored in high school; through AP exams, you have the opportunity to earn credit or advanced standing at most of the nation's colleges and universities. AP offers something for everyone and the only requirements are a strong curiosity about the subject you plan to study and the willingness to work hard. Advanced Placement courses are in the disciplines of English, mathematics, science, social studies, art and foreign languages. Students enrolled in an AP class are required to take the AP examination. Financial assistance is available for the cost of the exam. Here are just a few reasons to sign up for an AP class today:

### GAIN THE EDGE IN COLLEGE PREPARATION

- Get a head start on college-level work.
- Improve your writing skills and sharpen your problem-solving techniques.
- Develop the study habits necessary for tackling rigorous course work.

### STAND OUT IN THE COLLEGE ADMISSIONS PROCESS

- Demonstrate your maturity and readiness for college.
- Show your willingness to push yourself to the limit.
- Emphasize your commitment to academic excellence.

### BROADEN YOUR INTELLECTUAL HORIZONS

- Explore the world from a variety of perspectives, most importantly your own.
- Study subjects in greater depth and detail.
- Assume the responsibility of reasoning, analyzing, and understanding for yourself.

### HOW DO YOU ENROLL?

Once you've decided to take the AP challenge, it's easy to enroll. Talk to an AP teacher or the AP Coordinator at your school about the course you want to take. Discuss the course's workload and any preparation you might need with your counselor.

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## PLACEMENT: DUAL ENROLLMENT

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Students may receive both high school and community college credit while enrolled in PUHSD high school courses that are approved to offer dual enrollment credit. All courses are taught by PUHSD teachers who are community college certified. Some dual enrolled courses require that students take and pass a community college Accuplacer test prior to enrolling. Tuition fee payments will be made directly to the community college. In-state enrollees may pay a much lower rate than current community college costs.

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## PLACEMENT: CONCURRENT ENROLLMENT

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Students who are enrolled in high school may also take community college or university courses at the college campus outside of high school class time for college credit. Prior approval by Principal or designee is required for each concurrent course request to be granted high school credit.

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## MAGNET PROGRAMS IN THE PHOENIX UNION HIGH SCHOOL DISTRICT

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The Phoenix Union High School District offers ten magnet programs and one magnet high school. A magnet program provides a special curriculum which is designed to provide both specialized and advanced preparation to students with special needs or ambitions. Each of the magnet programs and the magnet high school listed below offer all honors and advanced placement courses common to other Arizona secondary schools and a full co-curricular program which includes student government, athletics and activity clubs.

- The Center for Medical Arts & Health Studies** at Alhambra High School is designed for students interested in preparing for careers in medical or health fields. There are two major strands: Sports Medicine and Medical Research. Students enroll in "Introduction to Medical Arts" their first year and choose a strand for their remaining three years. Students are encouraged to take advanced science and math courses in conjunction with the Magnet curriculum. Sports Medicine students work with Alhambra sport teams in the treatment and prevention of sports injuries. Students can earn a Nursing Assistant License. This program works with local Health Systems in a close partnership to provide opportunities for our students to observe medical professionals at work in various health facilities and complete clinical experiences as nursing assistants.
- The Center for Computer Studies** at Carl Hayden Community High School features a variety of computer courses, most of which are not available at any other district school. Computer facilities and equipment provide business and science applications which are augmented by a strong academic curriculum in both fundamental and advanced computer language and theory.
- The Center for Marine Science** at Carl Hayden Community High School. Through hands-on activities, field trips and original research projects, the Center for Marine Science will equip students with the information, skills and personal experiences necessary to deal with the complex environmental issues facing mankind today. This educational program will enable students to make intelligent decisions about the environment and discover possible solutions for its wise use, restoration and conservation.
- The Center for Global Studies** at Central High School gives students in the Phoenix Union High School District the opportunity to study foreign relations, international trade and finance, cultural anthropology and four years of either Chinese, Japanese, Latin, Spanish, or French. Those students who enter as 9th graders and complete three years of the program prior to their twelfth grade year will be involved in research that may provide the opportunity for travel outside the United States.



During the 11th grade year, magnet students are eligible to apply for travel to Hermosillo, Sonora, Mexico, to participate in a five-day community service project. Students are hosted by Central's sister school and spend two days working in an elementary school. Students also host the Mexican students in Phoenix during the spring semester. During the twelfth grade year, magnet students, through student fund-raising and donations, may participate in travel to the country of the language studied as part of an ongoing student exchange program. Magnet students host students from these countries. Selected twelfth grade students travel to Mexico to participate in a community service project.

The International Studies program is designed for students with an interest in foreign language, cultures and customs of foreign nations and economic, political and diplomatic relations among countries.

- E. **Metro Tech High School**, a Magnet high school, combines all the necessary academic courses for graduation and post secondary education with a wide variety of Career and Technical Education (CTE) programs. Critical thinking, communication, information processing, collaboration and work habits are emphasized and assessed in every course at Metro Tech. Regular and honors courses needed to complete the program are offered with many of the course offerings integrated and jointly instructed. In core areas, English and social studies teachers remain with students for a two-year period, creating a family-like atmosphere. Metro Tech graduates will acquire the skills needed to be successful for post-secondary and the world of work.
- F. **The International Baccalaureate** at North High School and Betty Fairfax High School offers the serious, college-bound student an opportunity to earn a special high school diploma that virtually assures success in any college endeavor. The program demands a high level of proficiency in all academic areas and requires a minimum of four years of one foreign language. Challenging classes that meet IB standards assure students the opportunity to achieve at levels set by and tested by, the International Baccalaureate organization based in Geneva, Switzerland.
- G. **The Center for Aviation/Aerospace Education** at South Mountain High School. Students enrolling in Aviation/Aerospace will gain exposure to a variety of careers in the aviation field. They will experience aircraft engineering and design in the Aerospace Technical Lab. They will learn about the repair and maintenance of aircraft in Aircraft Maintenance Technology. In Air Traffic Control students will learn how to control air traffic. In Ground and Flight School they will work toward earning their FAA private pilot certificate in a single engine aircraft.
- H. **The Center for Multimedia Communications** at South Mountain High School offers students access to state-of-the-art equipment in the study of television, radio, print and web-design production, as well as the opportunity to explore multi-media journalism methods essential to success in today's technology-driven world.
- I. **The Center for Law-Related Studies** at South Mountain High School. This program offers the student a chance to explore career opportunities in law and law-related fields and occupations through course work and involvement with the various legal professions in the community.
- J. **The Center for Visual Arts** at South Mountain High School. The Center for Visual Arts offers students a four-year sequenced program of study in a wide variety of art disciplines. Students are encouraged to develop their own personal styles in ceramics, computer art, drawing/painting, jewelry and fiber arts, photography or sculpture using various media techniques and processes. Students are given many opportunities to exhibit their work, to participate in field trips and to interact with local and national professional artists.

K. **The Center for Performing Arts** at South Mountain High School. Students enrolled in the Center for the Performing Arts bring with them commitment, desire and determination, key ingredients needed whether they choose to pursue dance, theater or music. Unparalleled learning situations are provided through the use of state of the art equipment, nationally and internationally recognized artists as guest teachers, field trips and community performances.

The magnet programs are available to all Phoenix Union High School District students with applications processed on a first-come, first-served basis. It is possible that there will be a waiting period; however, as the Phoenix Union High School District is committed to transfer policies which improve ethnic balances in all schools, timeliness of the application is extremely important.

District resident students taking advantage of the magnet offerings and not residing in the magnet school attendance zone will be provided free transportation and textbooks.

Counselors at each campus have complete information on specific course offerings and can advise students of application procedures.

For further Magnet Program information, call (602) 764-8099.

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### CAREER & TECHNICAL EDUCATION PROGRAMS

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The Phoenix Union High School District offers its students career and technical education courses in the following areas: Business/Technology Education, Family and Consumer Sciences, Industrial Technology Education, Construction Trades, Transportation Trades, Health Service Occupations, Innovative Technology, Law Enforcement, Fire Services, Education Professions, and Cosmetology.

Students who participate in programs offering dual enrollment with community college programs may be granted advanced standing credit at their community college.

All career and technical education programs offer students the opportunity to participate with national and state recognized Career and Technical Student Organizations (CTSOs). For further information, contact the CTE office at Metro Tech High School.

## AIMS

### **What is AIMS?**

AIMS stands for Arizona's Instrument to Measure Standards. It is a state-mandated test, adopted by the State Board of Education, to measure student proficiency on reading, writing and mathematics standards at grades 3, 5, 8 and high school, and on science standards at grades 4, 8 and high school.

### **How are the standards tested on AIMS?**

The reading test requires students to read lengthy passages and answer questions to test their understanding of material read. The readings include fiction, nonfiction, poetry, graphs and charts. Students also are tested on their use of reference materials such as a dictionary, thesaurus and almanac. The test format is multiple-choice questions.

The writing test requires students to compose a formal letter of communication, a descriptive essay, narrative, or an analysis of a work of literature. Students' writings are scored on each of six writing traits: ideas and content, grammar and mechanics, organization, word choice, voice and sentence fluency. Students may not use a word processor during the test.

The mathematics test covers six areas: number sense, logic, algebra, geometry, data analysis and probability and measurement. Students must accurately compute problems as well as demonstrate understanding of mathematical concepts. They may not use a calculator or computer during the test.

The science test is an end-of-course life science assessment that covers four areas: scientific inquiry; history and nature of science; science in personal and social perspectives; and life science. A majority of the emphasis is placed on scientific inquiry and life science. A multiple-choice format requires students to demonstrate understanding of science concepts and inquiry using life science examples.

### **Who has to take AIMS?**

All students are required to take and pass the reading, writing, and math AIMS tests in order to graduate. Beginning with their tenth grade year, students have multiple opportunities to pass the test prior to their twelfth grade year. Once a student passes a portion of the AIMS with a "meets" designation, he/she does not have to repeat that test in order to graduate. However, a student who has met proficiency on any portion of the AIMS may take the test again in an attempt to exceed the standards. The highest score will be maintained; thus there is no penalty if the retake score is lower than the original score.

The AIMS high school science test is a life science assessment designed for tenth grade students. However, ninth grade students who are enrolled in a life science course may participate in the AIMS high school science test. High school students will take the AIMS high school science test no more than once, either during their first year of high school or during their second year of high school. (In spring 2008, all cohort 11 students (generally ninth graders) who are enrolled in a life science course and all cohort 10 students (generally tenth graders) who are enrolled in a life science course will participate in the AIMS high school science test. In spring 2009, all cohort 12 students (generally ninth graders) who are enrolled in a life science course and all cohort 11 students (generally tenth graders) who did not test on AIMS high school science during spring 2008, will participate in the AIMS high school science test. For students in cohort 11, it will not matter whether or not they are enrolled in a life-science course. If they do not have an AIMS high school science score from spring of 2008, they will test on AIMS high school science in spring 2009. For AIMS high school science test administration beyond 2009, this pattern will continue.

All Basic, Practical, and C.B.T. students will be required to participate in AIMS testing. Students who meet the criteria for significantly cognitively disabled, as determined by the IEP team, may be eligible for AIMS-A, an alternative assessment. All other students with disabilities will be required to take the high school level AIMS, with standard accommodations as determined by the IEP team. The IEP team will determine AIMS competency requirements for students with disabilities.

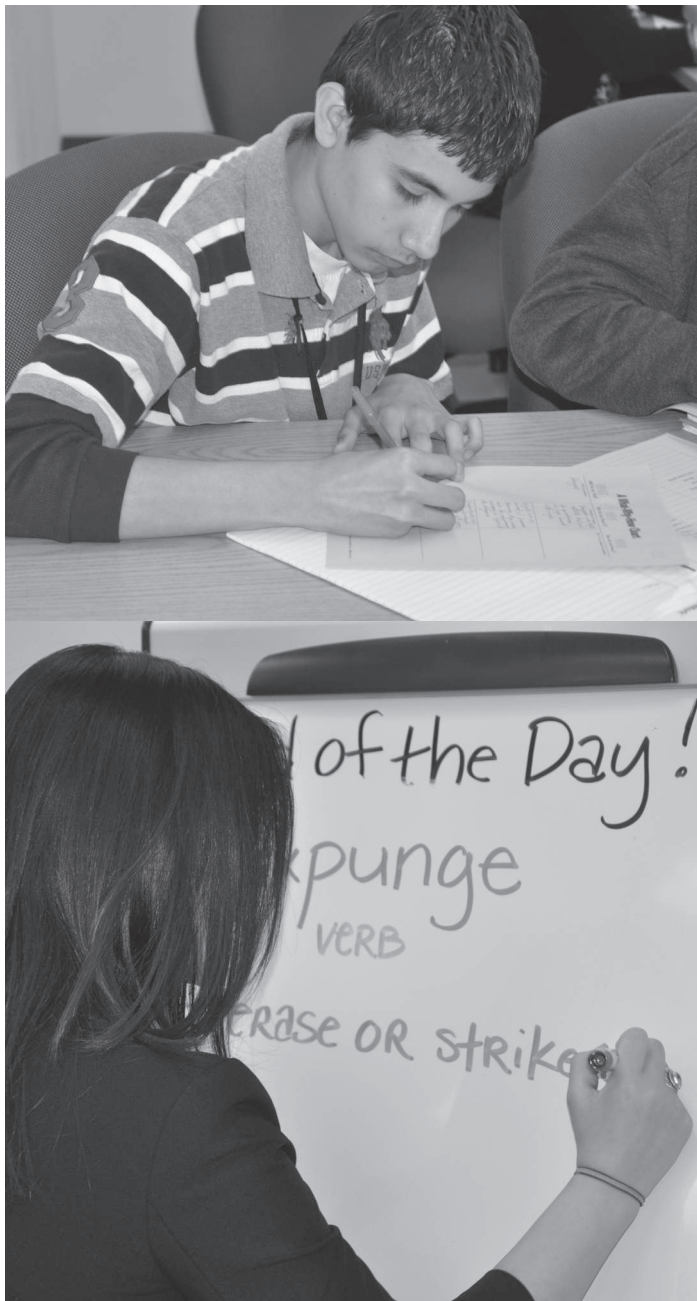
### **How are AIMS Reading, Writing, and Math results used by schools?**

AIMS results are used to determine if an individual student has met graduation requirements. These results are also used to determine whether a school has met federal No Child Left Behind (NCLB) requirements of adequate yearly progress and to determine a school's label under the AZ LEARNS statute.

Spring 2008 was the first operational administration of the AIMS science test. The AIMS high school science test is not a high stakes test. This means that students are not required to pass the AIMS high school science test in order to graduate from high school. How AIMS science will be included in AYP or AZ LEARNS calculations is yet to be determined.

# DISTRICT-WIDE OFFERINGS

The following courses may be offered on any of the PUHSD campuses. They are offered according to student need. Not all courses are available every semester on every campus. For more detailed information on course content, check with your school counselor or department chair in that subject area.



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# CAREER & TECHNICAL EDUCATION (CTE) PROGRAM

The Phoenix Union High School District offers its students state approved career and technical education courses in the following occupational areas: Agriculture, Business & Marketing, Education & Training, Family & Consumer Sciences (FACS), Health Careers, and Industrial & Emerging Technologies (ITE). All programs begin at the freshman level.

Career and Technical Education programs offer two, three and four-year programs of study. With the completion of a program, students may be eligible for career-related certificates and/or licenses.

Many CTE Programs offer dual enrollment with local community colleges, and students who participate may be granted advanced standing credit at their community college. Students should check with their counselors to determine if dual enrollment credits are offered in a program of interest.

All career and technical education programs offer students the opportunity to participate with national and state recognized Career and Technical Student Organizations (CTSOs). For further information, contact your counselor.

The following programs are offered at campuses throughout the Phoenix Union High School District. Additional program offerings are listed under the Franklin and Metro Tech sections of this course catalog.

<b>DISTRICTWIDE CTE PROGRAM OFFERINGS</b> (course descriptions begin on page C3)				
<b>AGRISCIENCE</b>	<b>BUSINESS EDUCATION</b>	<b>EDUCATION TRAINING</b>	<b>FAMILY &amp; CONSUMER SCIENCES</b>	<b>INDUSTRIAL TECHNOLOGY EDUCATION</b>
<ul style="list-style-type: none"> <li>• Agriscience: Environmental Engineering</li> <li>• Agriscience: Plant Systems</li> </ul>	<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Business &amp; Technology</li> <li>• Marketing</li> <li>• Sports &amp; Entertainment Marketing</li> </ul>	<ul style="list-style-type: none"> <li>• Early Childhood Education</li> <li>• Education Professions</li> </ul>	<ul style="list-style-type: none"> <li>• Culinary Arts</li> <li>• Fashion Design &amp; Merchandising</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Game Design</li> <li>• Construction/Woods Technology</li> <li>• Design/Drafting Technology</li> <li>• Engineering</li> <li>• Transportation/Auto Technology</li> <li>• Web Design</li> </ul>

<b>METRO TECH CTE PROGRAM OFFERINGS</b> (course descriptions begin on page C86)				
<b>BUSINESS EDUCATION</b>	<b>EDUCATION TRAINING</b>	<b>FAMILY &amp; CONSUMER SCIENCES</b>	<b>HEALTH CAREERS</b>	<b>INDUSTRIAL TECHNOLOGY EDUCATION</b>
<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Banking &amp; Financial Services</li> <li>• Business Management</li> <li>• Floral Design &amp; Business Operations</li> </ul>	<ul style="list-style-type: none"> <li>• Early Childhood Education</li> <li>• Education Professions</li> </ul>	<ul style="list-style-type: none"> <li>• Culinary Arts</li> <li>• Fashion Design &amp; Merchandising</li> </ul>	<ul style="list-style-type: none"> <li>• Health Careers: Pharmacy Support Services</li> <li>• Health Careers: Nursing Asst.</li> </ul>	<ul style="list-style-type: none"> <li>• Automotive Collision Repair</li> <li>• Automotive Technologies</li> <li>• Computer &amp; Network Technologies</li> <li>• Construction Technologies</li> <li>• Cosmetology</li> <li>• Drafting: Architectural</li> <li>• Drafting: Mechanical</li> <li>• Electrical Wiring Trades</li> <li>• Film &amp; Digital Media</li> </ul>

<b>FRANKLIN CTE PROGRAM OFFERINGS</b> (course descriptions begin on page C80)
<b>INDUSTRIAL TECHNOLOGY EDUCATION</b>
<ul style="list-style-type: none"> <li>• Law Enforcement</li> <li>• Fire Fighting</li> </ul>



# CTE FRESHMAN LEVEL PROGRAMS

CTE offers various Exploring Careers classes designed specifically for freshmen as part of the Business; Family and Consumer Sciences (FACS); and Industrial Technology Education (ITE) programs. Students will explore a multitude of careers and career pathways which will be especially beneficial as they begin developing their Education and Career Action Plan (ECAP). (Further information on ECAP begins on page A6)

## BUSINESS EDUCATION

### COMPUTER AND TECHNICAL EDUCATION 1

One-semester course, grade level 9

Prerequisite: None

This course is designed to give students an exploration of a variety of occupation areas within the business field. Students will utilize technology-based research tools to locate and collect information and demonstrate computer literacy skills by communicating using e-mail, Internet, and other technology tools with an emphasis on word processing and presentation software. All students must provide parental/guardian approval for Internet use.

### COMPUTER AND TECHNICAL EDUCATION 2

One-semester course, grade level 9

Prerequisite: None

This course is designed to continue the exploration of occupational areas which will assist students in the development of their career and education plans in the business environment. Students will utilize technology-based research tools to locate and collect information and demonstrate computer literacy skills with an emphasis on spreadsheet and database software. All students must provide parental/guardian approval for Internet use.

## INDUSTRIAL TECHNOLOGY EDUCATION (ITE)

### EXPLORING TECHNOLOGY 1-2

Two-semester course, grade level 9

Prerequisite: None

This course is designed to give students an exploration of a variety of occupations with an emphasis in the Industrial Technology trades career area. Students can learn to make informed decisions about their future career plans that match for their personal aptitudes, interests, and personality. Students will use technology tools and devices; participate in team work; and develop individual projects to enhance their employability skills. Students will have the opportunity to gain valuable leadership and communication skills; begin preparation for writing scholarships; and get involved with community service learning by participating in SkillsUSA, a national and state career and technical student organization.

### EMERGING TECHNOLOGIES 1-2

Two-semester course, grade level 9

Prerequisite: None

This course is designed to give students an exploration of a variety of occupations with an emphasis in emerging technology in career areas related to engineering, sustainability, and computer programming. Students will explore how to make informed decisions about future career plans that match their personal aptitudes, interests, and personality. Students will use technology tools and devices; participate in team work; and develop individual projects to enhance their employability skills. Students will have the opportunity to gain valuable leadership and communication skills; begin preparation for writing scholarships; and get involved with community service learning by participating in SkillsUSA, a national and state career and technical student organization. All students must provide parental/guardian approval for Internet use.

## FAMILY & CONSUMER SCIENCES (FACS)

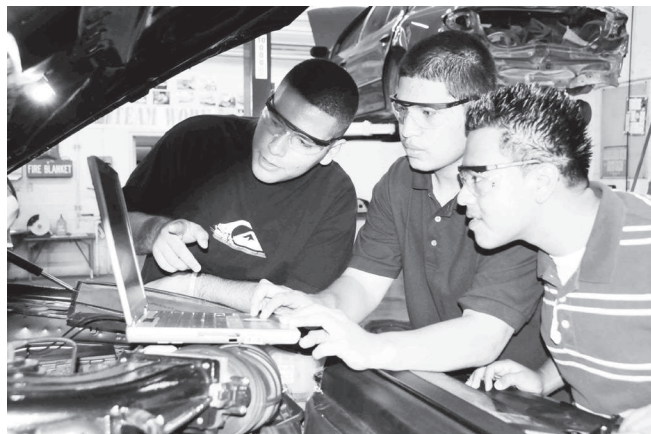
### FAMILY AND CONSUMER SCIENCES (FACS) 1-2 CAREER EXPLORATION

Two-semester course, grade level 9

May be taken individually as one-semester courses, or together as a year-long sequence

Prerequisite: None

In this course, students will explore a variety of occupational areas in relation to their skills, strengths, weaknesses, and potential fit for a particular career. This process will help the student gain awareness of the world of work and serve as a basis to assist them in the development of career and education plans. Students will utilize technology-based research tools to locate and collect information. This course will also allow students to explore and practice skills utilized in various Human Service related careers. This will include culinary skills and food preparation; human behavior; growth and development of children; and fashion and design skills. All students must provide parental approval for Internet use. Because the structure of the curriculum units in each semester is independent of the other, students may enroll for the entire school year, or for a single semester. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in a state and national career and technical student organization.



# AGRISCIENCE

## Agriscience: Environmental Engineering (3-Credit Program Sequence)

<b>9th grade</b>	Intro to Applied Biological Systems 1-2 H	Note: Students who successfully complete Intro to Applied Bio Systems 1-2 H and AP Biology: Applied Biological Systems 3-4 will also earn a Biology credit.
<b>10th grade</b>	AP Biology: Applied Biological Systems 3-4	
<b>11th grade</b>	Agriscience: Environmental Engineering 1-2 H	Note: Students who successfully complete Agriscience: Environmental Engineering 1-2 H and AP Environmental Science: Agriscience Environmental Engineering 3-4 will also earn an Environmental Science credit.
<b>12th grade</b>	AP Environmental Science: Agriscience Environmental Engineering 3-4	

### INTRODUCTION TO APPLIED BIOLOGICAL SYSTEMS 1-2 H

Two-semester course, grade level 9, 10, 11  
Prerequisite: None

This introductory course is ideal for students who have an interest in environmental science. Emphasis for this class will be animal science, plant science, natural resources and related careers. This is the first class in a two class sequence that leads to the AP Biology exam. Students in this class will experience hands-on activities in the laboratories and classroom. Students are required to complete a capstone project and develop and approved supervised agricultural experience related to environmental science. This course is recognized as a laboratory science credit if taken in sequence with AP Biology - Applied Biological Systems 3-4, for AZ college entrance requirements. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in FFA, a national and state career and technical student organization.

### AP BIOLOGY: APPLIED BIOLOGICAL SYSTEMS 3-4

Two-semester course, grade level 10, 11, 12  
Prerequisite: Introduction to Applied Biological Systems 1-2 H, successful completion of Chemistry, and/or Biology

In this advanced applied biology class, students who wish to study biology at a more challenging level will study principles of living systems at the molecular, cellular and organismic levels of organization. This course provides students with an opportunity to develop a conceptual framework for modern biology emphasizing: science as a process, applications of biological knowledge and critical thinking to environmental and social concerns. This course will be the equivalent to a college-level laboratory-based science course for academically advanced students who have had an introductory life science course. Students may earn college credit and/or advanced placement based on their performance on the Advanced Placement examination in biology. Students are expected to complete a capstone project develop and approved supervised agricultural experience, and participate in leadership and community service. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in FFA, a national and state career and technical student organization. Due to the rigor of the AP program, this course receives honors credit.

Note: Students who successfully complete Intro to Applied Bio Systems 1-2 H and AP Biology: Applied Biological Systems 3-4 will also earn a **Biology** credit.



### AGRISCIENCE: ENVIRONMENTAL ENGINEERING 1-2 H

Two-semester course, grade level 11, 12  
Prerequisite: AP Biology – Applied Biological Systems 3-4, successful completion of Biology, Chemistry, Geometry

This course will cover the advanced skills in environmental science. The focus for this class is engineering design in environmental systems. Project focus will include water and air quality, pollution prevention, hazardous materials, and solid waste management. This intensive class emphasizes technical knowledge and skills related to environmental engineering and environmental science. This is the prerequisite class for the AP Environmental Science – Agriscience Environmental Engineering 3-4 course. Students will participate in many experiential projects in the classroom and the laboratories. This course is recognized as a laboratory science credit for AZ college entrance requirements. Students are expected to complete a capstone project, develop an approved agricultural experience, and participate in leadership and community service. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in FFA, a national and state career and technical student organization.

### AP ENVIRONMENTAL SCIENCE: AGRISCIENCE ENVIRONMENTAL ENGINEERING 3-4

Two-semester course, grade level 12  
Prerequisite: Agriscience – Environmental Engineering 1-2 H, successful completion or concurrent enrollment of Biology, Chemistry, Geometry, Physics

Topics to be covered in this class are: scientific analysis, the interdependence of Earth's systems, human population dynamics, renewable and nonrenewable resources, environmental quality, global changes and their consequences, the environment and society and choices for the future. Students will participate in laboratory and field investigations, allowing them to learn about the environment through firsthand observation and analysis. This course is a college-level science course for academically advanced students who wish to pursue advanced study of the environment. Students may earn college credit and/or advanced placement based on their performance on the Advanced Placement Environmental Science exam. Students are expected to complete a capstone project, and develop a supervised agricultural experience, and participate in leadership and community service or service learning opportunities. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in FFA, a national and state career and technical student organization. Due to the rigor of the AP program, this course receives honors credit.

Note: Students who successfully complete Agriscience: Environmental Engineering 1-2 H and AP Environmental Science: Agriscience Environmental Engineering 3-4 will also earn an **Environmental Science** credit.



Agriscience: Plant Systems (3-Credit Program Sequence)		
9th grade (recommended)	Intro to Applied Biological Systems 1-2	Note: Students who successfully complete Intro to Applied Bio Systems 1-2 and Applied Biological Systems 3-4 will also earn a Biology credit.
10th grade	Applied Biological Systems 3-4	
11th grade	Agriscience: AG 5-6	
12th grade	Agriscience: AG 7-8	

**PROGRAM EMPHASIS:**

Student enrolled in this program will acquire the knowledge and skills needed to get a head start in agriscience – related career opportunities in Aquaculture, horticulture, Turf grass (gold) management, crop Forest Management, and livestock production.

**AGRISCIENCE: INTRODUCTION TO APPLIED BIOLOGICAL SYSTEMS 1-2**

Two-semester course, grade level 9  
Prerequisite: None

This is a lab- centered course designed give students basic knowledge and skill in the areas of plant and animal production. Agriscience facilitates career explorations that involve leadership development to enhance student to select a course of study which they will follow through their four year program of study. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in FFA, a national and state career and technical student organization.



**AGRISCIENCE: APPLIED BIOLOGICAL SYSTEMS 3-4**

Two-semester course, grade level 10, 11, 12  
Prerequisite: None; Agriscience 1 or 2 is recommended

This is a lab-centered course with a focus on the application of advanced science technologies in relation to agriculture. The class will focus on a variety of practices that involve both plants and animals. Lab experiences will include agriculture mechanics, nutritional needs, and landscaping. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in FFA, a national and state career and technical student organization.



**AGRISCIENCE I: AG 5-6**

Two-semester course, grade level 11, 12,  
Prerequisite: Agriscience 3-4

This course centers on the development of skill in the areas of living system. Student will explore hand – on management with disease control, pests, soils will and nature resources sciences. Scientific processes will be practiced throughout all laboratory and classroom activities. An emphasis will be placed on biotechnology. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in FFA, a national and state career and technical student organization.

**AGRISCIENCE II: AG 7-8**

Two-semester course, grade level 12  
Prerequisite: Agriscience 5-6

This course will emphasize advanced skill on research techniques necessary for a student's future. Areas of interest will include horticulture, crop forestry, and turf grass (golf) management as well as aquaculture and livestock production. Independent student studies can lead to on the –job training opportunities through industry – based internship, job shadowing, and/or employment. Students who successfully complete this program will leave high school with skills to work in today's job market or be able to continue their education at a post – secondary education institution. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in FFA, a national and state career and technical student organization.





# BUSINESS EDUCATION

## Accounting (3-Credit Program Sequence)

		Recommended Practicum
9th grade (not required)	* Computer & Technical Education 1-2	
10th grade	Accounting 1-2	
11th grade	Accounting 3-4	
12th grade	Accounting 5-6	Internship (optional)

\*Course descriptions for Computer & Technical Education 1-2 found on page C3

### ACCOUNTING 1-2

Two-semester course, grade level 10, 11  
Prerequisite: None: Computer and Technical Education 1-2 recommended

This course is designed to equip students with practical working knowledge of the skills needed to perform daily accounting activities of the average business. The importance of accurate systematic records in business, as well as in personal affairs, is addressed. This course will introduce computerized accounting. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Business Leaders of America (FBLA), a state and national career and technical student organization.

### ACCOUNTING 3-4

Two-semester course, grade level 11, 12  
Prerequisite: Accounting 1-2

The second year course introduces the students to additional manual and computerized accounting concepts and principles that pertain to partnerships and corporations. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Business Leaders of America (FBLA), a state and national career and technical student organization.

### ACCOUNTING 5-6

Two-semester course, grade level 12  
Prerequisite: Accounting 3-4

The final course of the Accounting program of study continues with advanced practices of manual and computerized accounting concepts and principles. An emphasis will be placed on the evaluation of local, state, national, and international economics and the role of accounting in the economy. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Business Leaders of America (FBLA), a state and national career and technical student organization.

### ACCOUNTING INTERNSHIP 1-2

Two-semester course, grade level 12  
Prerequisite: Successful completion of Accounting 1-2, 3-4 and currently enrolled in Accounting 5-6

This course is a coordinated work based learning program which provides students authentic work experience in Accounting. This course allows the student to participate in a structured work environment off campus, and involves the application of technical skills gained in earlier Accounting Program classes. This paid or unpaid internship helps the student to practice and improve employability skills in the accounting industry. Appropriate internship placement is secured with the assistance of the teacher. Students will be required to comply with industry-specific regulations.

## Business and Technology Education (2-Credit Program Sequence)

	Option 1	Option 2	Option 3	Recommended Practicum
9th grade (not required)	*Comp & Tech Ed 1-2	*Comp & Tech Ed 1-2	*Comp & Tech Ed 1-2	
10th grade	Bus & Tech Ed 1-2		Bus & Tech Ed 1-2	
11th grade	Bus & Tech Ed 3-4	Bus & Tech Ed 1-2		
12th grade		Bus & Tech Ed 3-4	Bus & Tech Ed 3-4	Internship (TBA 2011-2012; optional)

\*Course descriptions for Computer & Technical Education 1-2 found on page C3

### BUSINESS AND TECHNOLOGY EDUCATION 1

Two-semester course, grade level 10, 11  
Prerequisite: None: Computer & Technical Education 1-2 recommended

This course is designed to prepare students for instruction in business communications, principles of business law, word processing, spreadsheet, database, presentation software and desktop publishing. The students will also gain skills with office equipment and procedures, public relations, filing, records management and report preparation. This course takes an integrated approach to teaching and learning to provide students enhanced technical knowledge and skills associated with functions within business occupations. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Business Leaders of America (FBLA), a state and national career and technical student organization.

### BUSINESS AND TECHNOLOGY EDUCATION 3-4

Two-semester course, grade level 11, 12  
Prerequisite: Business and Technology 1-2

This advanced course is designed to further develop skills using word processing, spreadsheet, database, presentation software and desktop publishing while integrating the skills attained in the Business and Technology 1-2 course. This course provides the same integrated approach to teaching and learning as the introductory course. Students will be provided advanced development of their technical knowledge and skills associated with functions within business occupations. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Business Leaders of America (FBLA), a state and national career and technical student organization.

## BUSINESS AND TECHNOLOGY EDUCATION INTERNSHIP 1-2

Two-semester course, grade level 12

Prerequisite: Successful completion of Accounting 1-2, 3-4 and currently enrolled in Accounting 5-6

This course is a coordinated work based learning program which provides students authentic work experience in the business environment. This course allows the student to participate in a structured work environment off campus, and involves the application of technical skills gained in earlier Business and Technology Program classes. This paid or unpaid internship helps the student to practice and improve employability skills in the business environment. Appropriate internship placement is secured with the assistance of the teacher. Students will be required to comply with industry-specific regulations.



### Marketing (2-Credit Program Sequence)

	Option 1	Option 2	Option 3	Recommended Practicum
<b>9th grade</b> (not required)	*Comp & Tech Ed 1-2	*Comp & Tech Ed 1-2	*Comp & Tech Ed 1-2	
<b>10th grade</b>	(all) Marketing 1-2		(all) Marketing 1-2	
<b>11th grade</b>	(all) Marketing 3-4	(all) Marketing 1-2		
<b>12th grade</b>		(all) Marketing 3-4	(all) Marketing 3-4	Internship (optional)

\*Course descriptions for Computer & Technical Education 1-2 found on page C3

#### MARKETING 1-2

Two-semester course, grade level 10, 11

Prerequisite: None: Computer and Technical Education 1-2 recommended

This course provides students an understanding of the social and economic responsibilities of those engaged in a competitive economic system. The program of study includes salesmanship, advertising, management, promotion, world economics, free enterprise, marketing research, business ownership, human relations, buying and pricing. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Distributive Education Clubs of America (DECA), a state and national career and technical student organization.

#### MARKETING 1-2 HONORS

Two-semester course, grade level 10

Prerequisite: None

This course offers an intensive study in social and economic responsibilities and preparation to compete in a global economic system with an emphasis in public relations, marketing, management, sales and entrepreneurship. Course activities are designed for students who have been successful in honors level coursework involving reading, writing, and math skills. Students will use problem solving skills, collaborative thinking, application and reflection to complete a capstone project that encompasses a marketing concept. Students will have opportunities to manage an on-site student-based enterprise; demonstrate technical skills in local, regional, state and international competitions; gain valuable leadership and employment skills and receive opportunities for scholarships, and community involvement by participating in DECA, an International Career and Technical Education Student Professional Organization

#### MARKETING 3-4

Two-semester course, grade level 11, 12

Prerequisite: Successful completion of Marketing 1-2 and Program Instructor approval

This course will provide instruction in areas such as advanced salesmanship, advertising, public relations, store operations, entrepreneurship, and management. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Distributive Education Clubs of America (DECA), a state and national career and technical student organization.

#### MARKETING 3-4 HONORS

Two-semester course, grade level 11, 12

Prerequisite: Successful Completion of Marketing 1-2 H and program instructor approval

This course offers an intensive study in social and economic responsibilities and engagement in a competitive global economic system with an emphasis to prepare students in advanced marketing, management, and entrepreneurship. Course activities are designed for students who have been successful in honors level coursework involving reading, writing, and math skills. Students will use problem solving skills, collaborative thinking, application and reflection to complete a capstone project that encompasses a marketing concept. Students will run an on-site student-based enterprise. They are eligible to enroll in a Marketing Internship course to attain authentic off-site work-based learning experience. Students will demonstrate technical skills in local, regional, state, and international competitions; gain valuable leadership and employment skills; and receive opportunities for scholarships and community involvement by participating in DECA, an international Career and Technical Education Student Professional Organization.

*\*Special Note: Students who pass Marketing 1-2 or Sports & Entertainment Marketing 1-2 and take the Economics CRT during the same school year will meet the Economics graduation requirement.*

**MARKETING INTERNSHIP 1-2**

Two-semester course, grade level 12  
 Prerequisite: Successful completion of Marketing 1-2 and 3-4 or currently enrolled in Marketing 3-4 and Program Instructor approval.

This course is a coordinated work based learning program which provides students authentic work experience in Marketing related fields. This course allows the student to participate in a structured work environment off campus, and involves the application of technical skills gained in earlier Marketing Program classes. This paid or unpaid internship helps the student to practice and improve employability skills in the marketing industry. Appropriate internship placement is secured with the assistance of the teacher. Students will be required to comply with industry-specific regulations.

**SPORTS & ENTERTAINMENT MARKETING 1-2**

Two-semester course, grade level 10, 11  
 Prerequisite: None; Computer and Technical Education 1-2 recommended

This course provides students with an understanding of the social and economic responsibilities of those engaged in a competitive economic system as it pertains to the Sports and Entertainment Marketing business. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Distributive Education Clubs of America (DECA), a state and national career and technical student organization.

**SPORTS & ENTERTAINMENT MARKETING 3-4**

Two-semester course, grade level 11, 12  
 Prerequisite: Successful completion of Marketing 1-2 and Program Instructor approval

This course provides students an advanced understanding of the social and economic responsibilities of those engaged in a competitive economic system as it pertains to the Sports and Entertainment Marketing business. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Distributive Education Clubs of America (DECA), a state and national career and technical student organization.

**SPORTS & ENTERTAINMENT MARKETING INTERNSHIP 1-2**

Two-semester course, grade level 12  
 Prerequisite: Successful completion of Marketing 1-2 and 3-4 or currently enrolled in Marketing 3-4 and Program Instructor approval.

This course provides potential occupational employment and internship opportunities to teach and practice the concepts necessary for the specific industry. The course is an organized internship, arranged by the school district with a local employer. The course helps the student to practice and improve employability skills in the industry.

**ELECTIVE BUSINESS CLASSES**

**BUSINESS EDUCATION 1-2 INDEPENDENT STUDY**

Two-semester course, grade level 12  
 Prerequisite: Prior approval of the Career & Technical Education Supervisor, Principal, Business/Technology Education Instructor and Instructional Leader

This course will provide an opportunity to complete one level of a course sequence and enable the student to develop advanced work in areas where the number requesting this work does not warrant offering a specific course. The student will work out a program of study to enhance his/her goals and knowledge of one of the major areas of business and will have an opportunity to specialize in a chosen field. Only 1.0 credit can be earned in this course to meet high school graduation requirements.

**BUSINESS LAW 1-2**

Two-semester course, grade level 11, 12  
 Prerequisite: None

This course is designed for the student who wants to have a better understanding of the legal system and what effect laws have on our society. An individual's rights and responsibilities under the law are emphasized as well as an understanding and respect of the law as it applies to the individual, to business and to society.



# EDUCATION TRAINING

## Early Childhood Education (2-Credit Program Sequence)

	Option 1	Option 2	Option 3	Recommended Practicum
9th grade (not required)	*FACS 1-2	*FACS 1-2	*FACS 1-2	
10th grade	ECE 1-2		ECE 1-2	
11th grade	ECE 3-4	ECE 1-2		
12th grade		ECE 3-4	ECE 3-4	Internship (optional)

\*Course descriptions for Family & Consumer Sciences 1-2 found on page C3

### EARLY CHILDHOOD EDUCATION 1-2

Two-semester course, grade level 10, 11

Prerequisite: None; FACS 1-2: Career Exploration recommended

This program is for students who are interested in careers in early childhood education and/or employment in the child care industry. Students develop the academic and job skills necessary for employment by participating in classroom and child care learning center activities. Responsibility and essential teaching skills are emphasized. This course provides the foundation for the attainment of the nationally recognized CDA industry credential. Students may be expected to earn their CPR/First Aid certification, attain a current Maricopa Food Service Worker/Food Handler's card and may be required to pass a TB test. Students will be required to comply with industry-specific personal presentation and dress code. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Educators of America (FEA), a state and national career and technical student organization.

### EARLY CHILDHOOD EDUCATION 3-4

Two-semester course, grade level: 11, 12

Prerequisite: Successful completion with a C or better in Early Childhood Education 1-2

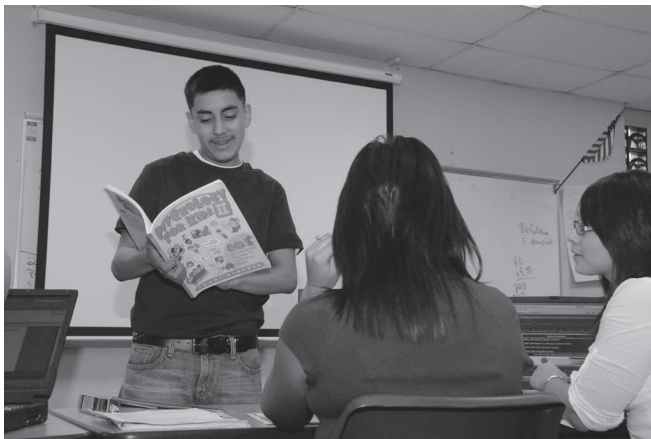
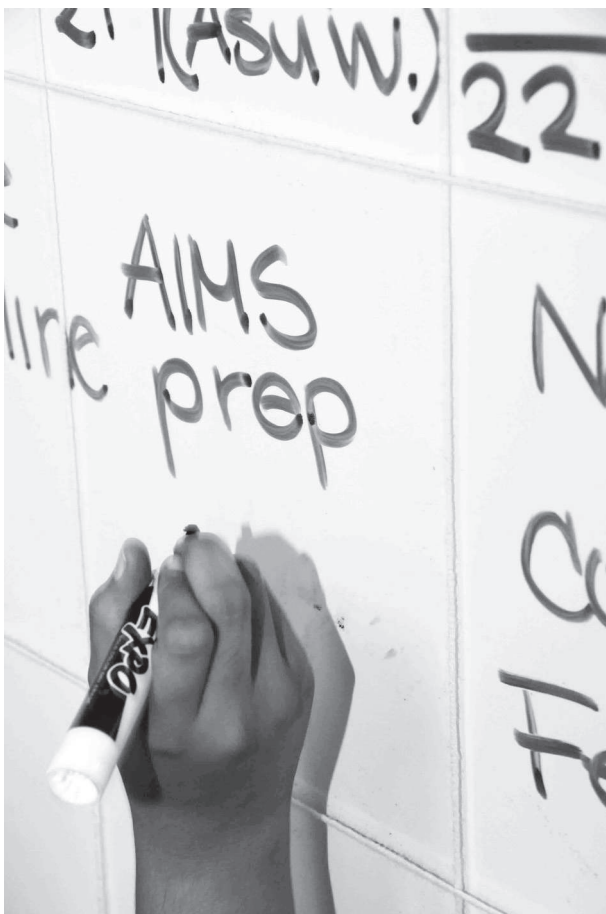
This advanced program includes job skills, related academic skills and responsibility skills needed to be successful in the early childhood education environment and the child care industry. The work experience in an authentic or simulated child care learning center laboratory will provide a variety of real learning experiences that are required for employment. This course prepares student to obtain the nationally recognized CDA industry credential. Students will be required to earn their CPR/First Aid certification, attain a current Maricopa Food Service Worker/Food Handler's card and may be required to pass a TB test. Students will be required to comply with industry-specific personal presentation and dress code. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Educators of America (FEA), a state and national career and technical student organization.

### EARLY CHILDHOOD EDUCATION INTERNSHIP 1-2

Two-semester course, grade level 12

Prerequisite: Successful completion of Early Childhood Education 1-2 and 3-4 or completion of 1-2 and currently enrolled in Early Childhood Education 3-4; and Program Instructor approval

This course is a coordinated work based learning program which provides students authentic work experience in Early Childhood Education. This course allows the student to participate in a structured work environment at a licensed preschool or daycare facility, and involves the application of technical skills gained in earlier Early Childhood Education Program classes. This paid or unpaid internship helps the student to practice and improve employability skills in the early childhood education industry. Appropriate internship placement is secured with the assistance of the teacher. Students will be required to comply with industry-specific regulations, including but not limited to: current CPR/First Aid certification; current TB test; fingerprint requirements; and a current food service worker's card.





Education Professions (2-Credit Program Sequence)				
	Option 1	Option 2	Option 3	Recommended Practicum
9th grade (not required)	*FACS 1-2	*FACS 1-2	*FACS 1-2	
10th grade	Ed. Professions 1-2		Ed. Professions 1-2	
11th grade	Ed. Professions 3-4	Ed. Professions 1-2		
12th grade		Ed. Professions 3-4	Ed. Professions 3-4	Internship (optional)

\*Course descriptions for Family & Consumer Sciences 1-2 found on page C3

### EDUCATION PROFESSIONS 1-2

Two-semester course, grade level 10, 11, 12

Prerequisite: On track to graduate; Algebra 1-2; at least one year of Science; one year of World Languages recommended; FACS 1-2: Career Exploration recommended

This course provides students interested in becoming a teacher a program of study in education career choices. Students will analyze the stages of child development related to teaching and learning. They will experience hands-on activities in the preparation of lesson planning and classroom management. Students will delve into education theory and methodology; learning styles; history of U. S. education and structure; roles and characteristics of teachers. Introductory classroom observation and interactive field experiences will be included. As an integral part of the course, competition opportunities will be included through participation with FEA (Future Educators of America), a national and state career and technical student organization.

### EDUCATION PROFESSIONS 3-4

Two-semester course, grade 11 or 12

Prerequisite: Successful completion of Education Professions 1-2

This course continues a program of study in the “teaching” career and preparation for entry in to a post-secondary school. Advanced studies and instruction will be delivered in educational theory and methodology, learning styles, and related technology use. Issues related to exceptional learners; diversity and its impact on teaching and learning and leadership styles will be examined. Students will also study the roles and organization of school districts and governing boards. Advanced opportunities will be offered in observation and interactive field experiences. As an integral part of the course, competition opportunities will continue to be offered through participation with FEA (Future Educators of America), a national and state career and technical student organization.

### EDUCATION PROFESSIONS INTERNSHIP 1-2

Two-semester course, grade level 12

Prerequisite: Successful completion of Education Professions 1-2 and 3-4 or completion of 1-2 and currently enrolled in Education Professions 3-4; and Program Instructor approval

This course is a coordinated occupational employment approach to teaching and practicing the concepts in the specific industry. The course is an organized internship, arranged by the school district with a local employer. This course helps the student to practice and improve employability skills in the industry.

## FAMILY & CONSUMER SCIENCES (FACS)

Culinary Arts (2-Credit Program Sequence)				
	Option 1	Option 2	Option 3	Recommended Practicum
9th grade (not required)	*FACS 1-2	*FACS 1-2	*FACS 1-2	
10th grade	Culinary Arts 1-2		Culinary Arts 1-2	
11th grade	Culinary Arts 3-4	Culinary Arts 1-2		
12th grade		Culinary Arts 3-4	Culinary Arts 3-4	Internship (optional)

\*Course descriptions for Family & Consumer Sciences 1-2 found on page C3



### CULINARY ARTS 1-2

Two-semester course, grade level 10, 11

Prerequisite: None; FACS 1-2: Career Exploration recommended

Students in Culinary Arts 1-2 will, in a laboratory setting, acquire hands-on skills and experience needed to demonstrate the application of creative food preparation. The focus will be on the development of food preparation skills required to be a success in the culinary and related industries. Other focus points include proper food handling, safety and sanitation, use of weights and measurements, use of tools and equipment, knife skills, culinary language terminology, ingredient identification and their function. Students will be required to comply with industry-specific personal presentation and dress code. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in a state and national career and technical student organization.

### CULINARY ARTS 3-4

Two-semester course, grade level: 11, 12

Prerequisite: Successful completion of Foods 1-2 or Culinary Arts 1-2

This advanced course continues a program of study in food preparation, planning and production, including Cooking Techniques, Baking Skills, and Restaurant Service. Students will experience real work while catering for special events. An emphasis will be on refining the sophistication of student skills necessary to build a career as a Baker, a Chef, or a Manager in the food service or other related industries; or own and operate their own successful bakery or restaurant. Students will be required to attain a current Maricopa Food Service Worker/ Food Handler's card. Students will be required to comply with industry-specific personal presentation and dress code. Career preparation, teamwork, and business skills are a part of the curriculum. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in a state and national career and technical student organization.

### CULINARY ARTS INTERNSHIP 1-2

Two-semester course, grade level 12

Prerequisite: Successful completion of Foods/Culinary Arts 1-2 and 3-4 or completion of 1-2 and currently enrolled in Culinary Arts 3-4; and Program Instructor approval

This course is a coordinated work based learning program which provides students authentic work experience in Culinary Arts. This course allows the student to participate in a structured work environment off campus, and involves the application of technical skills gained in earlier Culinary Arts Program classes. This paid or unpaid internship helps the student to practice and improve employability skills in the culinary industry. Appropriate internship placement is secured with the assistance of the teacher. Students will be required to comply with industry-specific regulations, including but not limited to the possession of a current food service worker's card.

### Fashion Design and Merchandising (2-Credit Program Sequence)

	Option 1	Option 2	Option 3	Recommended Practicum
9th grade (not required)	*FACS 1-2	*FACS 1-2	*FACS 1-2	
10th grade	Fashion 1-2		Fashion 1-2	
11th grade	Fashion 3-4	Fashion 1-2		
12th grade		Fashion 3-4	Fashion 3-4	Internship (optional)

\*Course descriptions for Family & Consumer Sciences 1-2 found on page C3

### FASHION DESIGN & MERCHANDISING 1-2

Two-semester course, grade level 10, 11

Prerequisite: None; FACS 1-2: Career Exploration recommended

This course addresses knowledge and skills related to the fashion industry, and related fields of textiles, apparel design and production. Topics include exploration of the apparel industry from production to marketing; clothing and textiles; apparel construction; consumer options for fashion, textiles, and related equipment and tools; care and maintenance of textile products, and equipment. Areas of study include selection and coordination of clothing and accessories, and construction techniques through a variety of projects. Students will explore career opportunities in the apparel industry. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in a state and national career and technical student organization.

### FASHION DESIGN & MERCHANDISING 3-4

Two-semester course, grade level 11, 12

Prerequisite: Successful completion of Fashion Plus 1-2

In this advanced course, students will continue their program of study in the fashion industry, develop entrepreneurial skills, and prepare for related employment. Students will build upon and expand the skills attained earlier and experience new skills related to the fields of apparel, design, textiles and clothing construction. Expanded experiences will include principles of clothing construction, pattern design, surface design, fitting and alteration, and varied custom sewing techniques. Student projects applying design principles will serve as vehicles to further develop student skill levels. An emphasis will be on fashion design projects at a higher level of clothing production and show case displays. Career preparation, teamwork, marketing skills, and knowledge of the various business functions in the fashion industry are a part of the curriculum. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in a state and national career and technical student organization.

### FASHION DESIGN & MERCHANDISING INTERNSHIP 1-2

Two-semester course, grade level 12

Prerequisite: Successful completion of Fashion Plus 3-4 or Fashion Design & Merchandising 3-4 or Fashion and Interior Technology 1-2 and 3-4; or completion of 1-2 and currently enrolled in Fashion Design & Merchandising 3-4 and Program Instructor approval

This course is a coordinated work based learning program which provides students authentic work experience in Fashion Design and Merchandising. This course allows the student to participate in a structured work environment off campus, and involves the application of technical skills gained in earlier Fashion Design and Merchandising Program classes. This paid or unpaid internship helps the student to practice and improve employability skills in the fashion industry. Appropriate internship placement is secured with the assistance of the teacher. Students will be required to comply with industry-specific regulations.

### ELECTIVE FACS CLASS

### HUMAN PSYCHOLOGY 1-2

Two-semester course, grade level 11, 12

Prerequisite: None

Human Psychology provides opportunities for young adults to examine psychological concepts involved in human behavior. Students will study the historical, sociological and psychological theories in human development. Students will examine topics related to relationships such as Conflict Management, Understanding Human Behavior, Personality Theories, Mental Health, Communication, Decision Making, Goal Setting, Interpersonal Relationships, Human Sexuality, Multicultural Lifestyles, and Consumerism. This course gives students tools to succeed in their careers and social situations while providing an opportunity to learn more about themselves as they develop more meaningful relationships with friends and family, and prepare for adult responsibilities.

## INDUSTRIAL TECHNOLOGY EDUCATION (ITE)

<b>Computer Game Design (2-Credit Program Sequence)</b>				
	<b>Option 1</b>	<b>Option 2</b>	<b>Option 3</b>	<b>Recommended Practicum</b>
<b>9th grade</b> (not required)	*Emerging Tech 1-2	*Emerging Tech 1-2	*Emerging Tech 1-2	
<b>10th grade</b>	Game Design 1-2		Game Design 1-2	
<b>11th grade</b>	Game Design 3-4	Game Design 1-2		
<b>12th grade</b>		Game Design 3-4	Game Design 3-4	Internship (TBA 2011-2012; optional)

\*Course descriptions for Emerging Technologies 1-2 found on page C3

### **GAME DESIGN 1-2**

Two-semester course, grade level 10, 11  
Prerequisite: None

Students in this course will study the technology, science and art involved in the creation of computer games. Study will include a variety of software technologies relevant to games including programming languages, scripting languages, operating systems, file systems, networks, simulation engines, and multi-media design systems. Students will study some of the underlying scientific concepts from computer science and related fields including: simulation and modeling, graphics, artificial intelligence, real-time processing, and game theory. Additional study will include the art and design principles for developing usable and engaging games including: software engineering, human computer interaction, thematic structure, graphic design, choreography, music and sound effects, and game aesthetics. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

### **GAME DESIGN 3-4**

Two-semester course, grade level 11, 12  
Prerequisite: None

Students in this advanced course will continue their study of the technology, science and art involved in the creation of computer games. Study will include more complex concepts in software technologies relevant to games including programming languages, scripting languages, operating systems, file systems, networks, simulation engines, and multi-media design systems. The student will continue to work towards proficiency in the art and design principles for developing usable and engaging games including: software engineering, human computer interaction, thematic structure, graphic design, choreography, music and sound effects, and game aesthetics. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

### **COMPUTER GAME DESIGN INTERNSHIP 1-2**

Two-semester course, grade level 12  
Prerequisite: Successful completion of Accounting 1-2, 3-4 and currently enrolled in Accounting 5-6

This course is a coordinated work based learning program which provides students authentic work experience in the computer game design industry. This course allows the student to participate in a structured work environment off campus, and involves the application of technical skills gained in earlier Computer Game Design Program classes. This paid or unpaid internship helps the student to practice and improve employability skills in the computer game design industry. Appropriate internship placement is secured with the assistance of the teacher. Students will be required to comply with industry-specific regulations.





<b>Construction / Woods Technology (2-Credit Program Sequence)</b>				
	<b>Option 1</b>	<b>Option 2</b>	<b>Option 3</b>	<b>Recommended Practicum</b>
<b>9th grade</b> (not required)	*Exploring Tech 1-2	*Exploring Tech 1-2	*Exploring Tech 1-2	
<b>10th grade</b>	Const./Woods 1-2		Const./Woods 1-2	
<b>11th grade</b>	Const./Woods 3-4	Const./Woods 1-2		
<b>12th grade</b>		Const./Woods 3-4	Const./Woods 3-4	Internship (optional)

\*Course descriptions for Exploring Technology 1-2 found on page C3

**CONSTRUCTION / WOODS TECHNOLOGY 1-2**

Two-semester course, grade level 10, 11  
Prerequisite: None

Students, both male and female, will be involved in activities such as designing, constructing, experimenting and evaluating plans, materials and processes. These activities will provide opportunities for creativity and problem solving as the latest in Construction / Woods technology is covered. Communication, study skills and the development of a good work ethic will also be emphasized. Safety will be an integral part of the program. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**CONSTRUCTION / WOODS TECHNOLOGY 3-4**

Two-semester course, grade level 11, 12  
Prerequisite: Construction / Woods Technology 1-2

This course reflects advanced procedures and offers an in-depth study into the latest occupations and processes involved in Construction / Woods Technology. The product approach, related to occupational areas, will be utilized. The importance of continued education and retraining in today's ever-changing technological society will be emphasized. Communication skills, study skills and the development of good working relationships are stressed for the home, workplace and community. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**CONSTRUCTION / WOODS TECHNOLOGY INTERNSHIP 1-2**

Two-semester course, grade level 12  
Prerequisite: Successful completion of Construction / Woods Technology 1-2 and 3-4 or currently enrolled in Construction / Woods Technology 3-4; and Program Instructor approval

This course is a coordinated work based learning program which provides students authentic work experience in Construction / Woods Technology. This course allows the student to participate in a structured work environment off campus, and involves the application of technical skills gained in earlier Construction / Woods Technology Program classes. This paid or unpaid internship helps the student to practice and improve employability skills in the construction industry. Appropriate internship placement is secured with the assistance of the teacher. Students will be required to comply with industry-specific regulations.



<b>Design / Drafting (2-Credit Program Sequence)</b>				
	<b>Option 1</b>	<b>Option 2</b>	<b>Option 3</b>	<b>Recommended Practicum</b>
<b>9th grade</b> (not required)	*Emerging Tech 1-2	*Emerging Tech 1-2	*Emerging Tech 1-2	
<b>10th grade</b>	Design/Drafting 1-2		Design/Drafting 1-2	
<b>11th grade</b>	Design/Drafting 3-4	Design/Drafting 1-2		
<b>12th grade</b>		Design/Drafting 3-4	Design/Drafting 3-4	Internship (optional)

\*Course descriptions for Emerging Technologies 1-2 found on page C3

**DESIGN / DRAFTING TECHNOLOGY 1-2**

Two-semester course, grade level 10, 11  
Prerequisite: None

Drafting is the study of graphics or technical drawings that are used to manufacture, design and build equipment and products. This course will utilize manual and computer drafting techniques to explore the various methods used to produce such drawings. Topics may include: designing products, freehand sketching, 2-D and 3-D style drawings, model building, and careers in Architecture, Engineering and Design. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**DESIGN / DRAFTING TECHNOLOGY 3-4**

Two-semester course, grade level 11, 12  
Prerequisite: Design / Drafting Technology 1-2

This course will give the student an opportunity to further extend their skills and abilities from the Design / Drafting 1-2 course. This course will focus on architectural blue prints and the various components associated with creating, reading, and interpreting those documents. Students will gain insight to many of the facets associated in completing a home type structure from beginning to end. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**DESIGN / DRAFTING TECHNOLOGY INTERNSHIP 1-2**

Two-semester course, grade level 12  
 Prerequisite: Successful completion of Design/Drafting Technology 1-2 and 3-4 or currently enrolled in Design/Drafting Technology 3-4

This course is a coordinated work based learning program which provides students authentic work experience in Design/Drafting Technology. This course allows the student to participate in a structured work environment off campus, and involves the application of technical skills gained in earlier Design/Drafting Technology Program classes. This paid or unpaid internship helps the student to practice and improve employability skills in the design and drafting industry. Appropriate internship placement is secured with the assistance of the teacher. Students will be required to comply with industry-specific regulations.



Engineering (3-Credit Program Sequence)		
		Recommended Practicum
9th grade	*Emerging Tech 1-2	
10th grade	Engineering 1-2 H	
11th grade	Engineering 3-4 H	
12th grade	Engineering 5-6 H	Internship (TBA 2012-2013; optional)

\*Course descriptions for Emerging Technologies 1-2 found on page C3

**ENGINEERING 1-2 H**

Two-semester course, grade level 10, 11, 12  
 Prerequisite: Algebra 1-2; Physical Science, Foundations of Science Inquiry 1-2 IB, or Biology

In this beginning engineering course, students will become familiar with engineering design development and technology systems. Students will use problem-solving skills and teamwork to create products in a project centered environment. Competition opportunities will be included through participation with SkillsUSA, a national and state career and technical student organization.

**ENGINEERING 3-4 H**

Two-semester course, grade level 11, 12  
 Prerequisite: Successful completion of Engineering 1-2; Algebra 1-2; Geometry 1-2 or concurrent enrollment in Geometry 1-2; Chemistry 1-2 recommended, or IB Math/Science Program Courses

In this intermediate level engineering course, students will learn cutting edge techniques in mechanical design, robotics, and automated systems. By the completion of the course, students will have produced many mechanical parts, assemblies and drawings, and also will have programmed and built robotic and automated systems. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**ENGINEERING 5-6 H**

Two-semester course, grade level 12  
 Prerequisite: Successful completion of Engineering 1-2 and 3-4; Geometry 1-2 or concurrent enrollment in IB Math/Science Program Courses, or Physics.

In this advanced engineering course, students will build upon the skills learned in the previous engineering courses. Students will learn advanced techniques and skills in mechanical design, automated systems, robotics and programming. Students will be required to complete an end of program examination. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a national and state career and technical student organization.



Transportation / Auto Technology (3-Credit Program Sequence)		
		Recommended Practicum
9th grade	Exploring Tech 1-2	
10th grade	Trans. Auto Tech 1-2	
11th grade	Trans. Auto Tech 3-4	
12th grade	Trans. Auto Tech 5-6	Internship (optional)

\*Course descriptions for Exploring Technology 1-2 found on page C3

**TRANSPORTATION / AUTO TECHNOLOGY 1-2**

Two-semester course, grade level 10, 11, 12  
Prerequisite: None

This course is designed to be the first of three in which the student will learn about all aspects of automotive technology. In this course students will understand about the overall vehicle, how it works and how to diagnose problems and make basic repairs. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Skills USA, a state and national career and technical student organization.

**TRANSPORTATION / AUTO TECHNOLOGY 3-4**

Two-semester course, grade level 11, 12  
Prerequisite: Transportation/Auto Technology 1-2

In this second course of the Transportation / Auto Technology program the student will learn how to diagnose more advanced automotive problems and how to make these repairs. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Skills USA, a state and national career and technical student organization.

**TRANSPORTATION / AUTO TECHNOLOGY 5-6**

Two-semester course, grade level 12  
Prerequisite: Successful completion of Transportation / Auto Tech 1-2 and 3-4

In this final course of the Transportation / Auto Technology program the student will take skills they became proficient in during the previous two courses and will turn their attention to working on customer vehicles which will allow the student to gain real world experience. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Skills USA, a state and national career and technical student organization.

**TRANSPORTATION / AUTO TECHNOLOGY INTERNSHIP 1-2**

Two-semester course, grade level 12  
Prerequisite: Successful completion of Transportation / Auto Technology 1-2 and 3-4 and currently enrolled in Transportation / Auto Technology 5-6

This course is a coordinated work based learning program which provides students authentic work experience in Transportation / Auto Technology. This course allows the student to participate in a structured work environment off campus, and involves the application of technical skills gained in earlier Transportation / Auto Technology Program classes. This paid or unpaid internship helps the student to practice and improve employability skills in the automotive industry. Appropriate internship placement is secured with the assistance of the teacher. Students will be required to comply with industry-specific regulations.

Web Design (2-Credit Program Sequence)				
	Option 1	Option 2	Option 3	Recommended Practicum
9th grade (not required)	*Emerging Tech 1-2	*Emerging Tech 1-2	*Emerging Tech 1-2	
10th grade	Web Design 1-2		Web Design 1-2	
11th grade	Web Design 3-4	Web Design 1-2		
12th grade		Web Design 3-4	Web Design 3-4	Internship (TBA 2011-2012; optional)

\*Course descriptions for Emerging Technologies 1-2 found on page C3

**WEB DESIGN 1-2**

Two-semester course, grade level 10, 11  
Prerequisite: None

In this course students will study the technology, analysis and design of websites for the World Wide Web. The course will take a user-centered approach to designing web sites. The course will focus on the entire lifecycle of a web site, from the idea of creating a web site, through requirements gathering, conceptual design, physical design, testing and implementation. Students will define a web site mission and target user population, collect the user requirements for a web site, conceptually design an appropriate page and site design, write the code to implement a web site, perform usability testing on a web site, and successfully implement and manage a web site. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a national and state career and technical student organization.

**WEB DESIGN 3-4**

Two-semester course, grade level 11, 12  
Prerequisite: None

In this advanced course students will continue to study the technology, analysis and design of websites for the World Wide Web. The course will continue to take a user-centered approach to designing web sites. The course will focus on refining the web site, from the idea of creating a web site, through requirements gathering, conceptual design, physical design, testing and implementation. Students will employ the skills learned in the introductory course and apply them to real world situations. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a national and state career and technical student organization.

**WEB DESIGN INTERNSHIP 1-2**

Two-semester course, grade level 12  
Prerequisite: Successful completion of Accounting 1-2, 3-4 and currently enrolled in Accounting 5-6

This course is a coordinated work based learning program which provides students authentic work experience in the web design industry. This course allows the student to participate in a structured work environment off campus, and involves the application of technical skills gained in earlier the Web Design classes. This paid or unpaid internship helps the student to practice and improve employability skills in the web design industry. Appropriate internship placement is secured with the assistance of the teacher. Students will be required to comply with industry-specific regulations.

# ENGLISH COURSE SEQUENCE

Students must successfully complete four units of English including credit in English 1-2, English 3-4, English 5-6 and English 7-8, or Honors sequence and/or AP courses.

An alternative sequence for Special Education students may be determined by the student's Individualized Education Plan team.

ENGLISH COURSE SEQUENCE			
Placement Recommendation	Recommended for General English Course Sequence	Recommended for Honors and/or AP	Other English Elective Options
9th grade	English 1-2	English 1-2 H	**
10th grade	English 3-4	English 3-4 H	**
11th grade	English 5-6	English 5-6 H or AP English Language and Composition	**
12th grade	English 7-8	English 7-8 H or AP English Literature and Composition	**

\*\* English Elective credit options: Composition for College I; Creative Writing 1 H; Journalism 1-2; Publication: Literary Magazine 1-8; Publication: Newspaper 1-8; Publication: Yearbook 1-8; Speech and Debate 1-8H; Studies in Literature I; English Independent Study 1-2

A student who fails one or more semesters of a course need to complete available credit recovery options (i.e. summer school, evening school, English Review 1-4).

## ENGLISH

### ENGLISH GRADUATION REQUIREMENT

Beginning with the graduating class of 2006, students must demonstrate proficiency on the reading and writing standards of the Arizona Standards for Language Arts as measured by the state-mandated AIMS test.

Students must successfully complete four units of English including credit in English 1-2, English 3-4, English 5-6, and English 7-8, or Honors sequence and/or AP courses.

### ENGLISH 1-2

Two-semester course, grade level 9  
Prerequisite: None

English 1-2 is the beginning course in the series for required English credits. Instruction builds upon the reading, writing, listening, speaking and critical thinking foundations established in 8th grade. Included is the study of thematic literature collections related to personal experiences. Reading comprehension strategies and control of the six traits of writing are emphasized. Active listening and speaking are practiced in formal and informal situations. A variety of media presentations is evaluated for social and cultural messages.

### LANGUAGE ARTS BLOCK

#### ELECTIVE 1-2

#### ENGLISH 1-2

Two-semester course, grade level 9  
Prerequisite: None

This two-hour block course addresses the same standards and goals as English 1-2 and includes all communication processes. Instruction emphasizes a student-centered approach to language arts using a reader/writer workshop model. Individual and small-group work focuses on critical reading, extended time for independent reading, and production of authentic writing products. Students receive one credit for English 1-2 and one English elective credit.

### ENGLISH 1-2 H

Two-semester course, grade level 9  
Prerequisite: 88th percentile rank in reading; Instructor recommendation

This course is designed for academically advanced, highly motivated students who consistently perform above grade level in all language skills. This course addresses the same standards and goals as English 1-2 with a more intensive study of literature, language and composition. Challenges to critical thinking, reading and academic writing are provided. Students pursue high cognitive goals through intensive study and independent work.

### ENGLISH 3-4

Two-semester course, grade level 10  
Prerequisite: Completion of English 1-2

This course continues to refine and expand skills developed in English 1-2. Thematic collections of world literature, with an emphasis on the universality of themes, are presented. The six traits of writing are further refined in the context of narrative and academic writing. MLA guidelines are introduced. The political and economic consequences of media forms are investigated.

### ENGLISH 3-4 H

Two-semester course, grade level 10  
Prerequisite: Completion of English 1-2, 1-2 H; Instructor recommendation

This course is designed for students who completed English 1-2 with a grade of C or better, were successful in English 1-2 H or are recommended for placement. This course addresses the same standards and goals as English 3-4 with a more intensive and comprehensive study of world literature, language and composition. Challenges to critical thinking, reading and academic writing are provided. Students pursue high cognitive goals through intensive study and independent work.



**ENGLISH 5-6**

Two-semester course, grade level 11  
Prerequisite: Completion of English 3-4

English 5-6 continues the study of structural elements of fiction and nonfiction through the analysis of literary periods and their subsequent social values. The literature of the United States and the Americas is emphasized. The six traits of writing are refined in the context of analytical and persuasive writing. Students engage in self-evaluation and respond to audience feedback on their speaking and listening skills. Media forms are examined for their impact on all aspects of society.

**ENGLISH 5-6 H**

Two-semester course, grade level 11  
Prerequisite: Completion of English 3-4, 3-4 H; Instructor recommendation

This course is designed for academically advanced, highly motivated students who were successful in English 3-4 H or are recommended for placement. Writing, speaking, and presentation skills are further refined in the context of analytical and persuasive writing. Intensive and comprehensive study of American literature is pursued. Library research is stressed.

**AP ENGLISH LANGUAGE AND COMPOSITION**

Two-semester course, grade level 11  
Prerequisite: Proficiency on AIMS, success in English 3-4 H or Instructor recommendation. Consideration of PSAT scores could also be used to determine a student's readiness.

AP English Language and Composition engages students in analyzing samples of good writing and explaining an author's use of rhetorical strategies, as well as applying effective techniques in their own writing. Students will demonstrate mastery of standard written English as well as a stylistic maturity in their own writings. This course allows students to write in a variety of genres and contexts; formal and informal, employing appropriate conventions and moving effectively through the stages of the writing process with careful attention to inquiry and research, drafting, revising, editing and review. This course is demanding and students are expected to take the AP Exam in Language and Composition. College credit or advanced placement in college may be granted based on exam results.

**ENGLISH 7-8**

Two-semester course, grade level 12  
Prerequisite: Completion of English 5-6

English 7-8 is the final course in the series of required English courses. The curriculum uses international classics, with emphasis on British literature, to provide a world view of mankind throughout the centuries and across the regions of the world. Proficiency in all six traits of writing is expected in all writing forms. Research findings are presented using MLA style in a research paper. A comparison of the impact of multiple media forms on society is studied.

**ENGLISH 7-8 H**

Two-semester course, grade level 12  
Prerequisite: Completion of English 5-6, 5-6 H; Instructor recommendation

This course is designed for academically advanced, highly motivated students who were successful in English 5-6 H or are recommended for placement. Writing, speaking, and presentation skills are further refined in the context of all forms of academic and creative writing. Students study the diverse cultures of the world through literary analysis of those cultural, historical and political events that have shaped the human experience. Library research leads to the production of an extensive research paper.

**AP ENGLISH LITERATURE AND COMPOSITION**

Two-semester course, grade level 12  
Prerequisite: Proficiency on AIMS and success in English 5-6 H or AP English Language and Composition or Instructor recommendation

AP English Literature and Composition is a program of language and composition designed for college-bound students who are academically ambitious and highly motivated independent learners. Students in this program are characterized by a capacity for abstract thought, an eagerness for intellectual inquiry, a habit and love for reading and a superior record of scholastic achievement. This course is designed to develop an understanding of the universality of human experience that is revealed through reading representative literature of several cultures and eras. Writing assignments focus on the critical analysis of literature and include analytical, expository and argumentative essays. This course is demanding and students are expected to take the AP Exam in Literature and Composition. College credit or advanced placement in college may be granted based on AP exam results.

**ENGLISH REVIEW 1-4**

Four-semester course, grade level 11, 12  
Prerequisite: None

This course is designed for students in grades 11 and 12 so they may earn credit in English 1, 2, 3, and 4 without repeating texts or joining classes of 9th or 10th graders. The major emphasis is on the development of competence in the use of the English language including listening, speaking, reading and writing skills. The course includes the study of various types of literature and demonstration of required competencies through student performance in class participation, written tests, compositions, projects and a library paper.

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## ENGLISH ELECTIVES

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These courses do not fulfill the four-year English requirement.

**COLLEGE AND CAREER READINESS: ENGLISH**

One-semester course, grade 11-12, .5 credit  
Prerequisite: Non-proficiency on AIMS

This course will prepare those students who have not passed the reading and writing portions of the AIMS test as 10th graders. Students not passing may enroll as juniors or seniors.

**COMPOSITION FOR COLLEGE 1**

One-semester course, grade level 11, 12  
Prerequisite: Two units of English

The purpose of the course is the development of mature writing. Special attention is given to preparation for college English, including research paper, grammar, written interpretation of literature and information about college assignments, requirements and programs.

**CREATIVE WRITING 1 H**

One-semester course, grade level 11, 12  
Prerequisite: Two units of English

Creative writing is for those who wish to express themselves creatively and imaginatively in such literary forms as the short story, poem and one-act play. Individual interest and talent will determine the writer's field, but emphasis will be given to writing the short story.

**JOURNALISM 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

Journalism 1-2 is primarily a writing course designed to familiarize the student with the basic principles of journalism. It offers analytical study and experience in news writing, headline preparation, proofreading, copy reading and makeup.

**PRE-AP ENGLISH 1-2**

Two-semester course, grade level 9, 10  
Prerequisite: Instructor recommendation

Pre-AP English is designed to better prepare students to think critically and complete college-level work. The course will offer an overview of literature and an introduction to high-level writing skills.

**PRE-AP ENGLISH 3-4**

Two-semester course, grade level 10  
Prerequisite: Pre-AP English 1-2; Instructor recommendation

This course is a world literature and critical writing class designed to form a foundation for AP English Language and Composition and AP English Literature and Composition. It is a stringent, college-prep class. Although this course covers the same ground as English 3-4, it does so in greater depth and with higher standards. Completion of this class fulfills the state standards for the sophomore English requirement.

**PUBLICATION: LITERARY MAGAZINE 1-8**

Eight-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This course engages students in becoming skilled writers of prose written in a variety of disciplines and rhetorical contexts. Students learn to become writers who compose for a variety of purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing to be published. The course allows students to learn the elements of desktop publishing and provides an avenue for students to develop their technology skills.

**PUBLICATION: NEWSPAPER 1-8**

Eight-semester course, grade level 9, 10, 11, 12  
Prerequisite: Journalism 1-2 or Instructor approval

Newspaper Publication is a course that enables the student to apply the writing and editing skills learned in journalism. The Newspaper Publication class writes, edits, and lays out the school newspaper. This course may be repeated for additional credit.

**PUBLICATION: YEARBOOK 1-8**

Eight-semester course, grade level 9, 10, 11, 12  
Prerequisite: Instructor approval

The major emphasis of Yearbook Publication is the production of a yearbook for the whole school. Techniques in good layout, copywriting and copy editing will be learned and practiced. Students will work together in a staff relationship and note the importance of meeting deadlines. This course may be repeated for additional credit.

**SPEECH 1**

One-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This course encourages students to use the experience and knowledge they have about communicating with others and to build new communication skills. Students will learn to recognize and utilize research, organization, composition, delivery and evaluation. These goals will be accomplished through individual and group speaking experiences.

**SPEECH AND DEBATE 1-8 H**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This honors class is intended for all students who are interested in opportunities that cross interdisciplinary lines. A portfolio demonstrating honors competency and effort is required in order to receive the honors credit. This course is designed to provide a series of opportunities to allow students to achieve success in the skills associated with multiple speech and debate activities. Students will participate in the interpretation of literature, the writing of public address speeches, the creation of limited preparation writings, debates on various resolutions, and other activities associated with the forensic arts. Policy debate, Lincoln-Douglas debate, and Public Forum debate are all offered as options. All events require the development of research skills as well as multiple practices. Current and historical events provide a basis for some events. Advanced students will also have the ability to serve as mentors to less experienced participants. This course may be repeated for additional credit.

**STUDIES IN LITERATURE 1**

One-semester course, grade level 11, 12  
Prerequisite: Two units of English

The emphasis of this course is personal reading development. Each student will work out his/her own reading program for the semester with teacher guidance. Through teacher-student conferences, each student will be encouraged to deepen and broaden reading perspectives, interpret and analyze works read and respond to the reading orally and in writing.

**ENGLISH INDEPENDENT STUDY 1-2**

Two-semester course, grade level 12  
Prerequisite: Prior approval of the Principal, English Instructor and Instructional Leader

This program provides the opportunity for the advanced student, who ranks in the upper 25 percent of his/her class, to investigate and study independently an area of his/her own choosing in English. The student is provided with tools of inquiry and research methods and techniques.

# PUHSD SEI MODEL

Beginning in school year 2008-09, Arizona House Bill 2064 requires that all ELL students receive four hours of English Language Development (ELD) instruction per day. Therefore, regardless of a student's English proficiency, as measured on the Arizona English Language Learners Assessment (AZELLA), all students who qualify as ELL will be required to take four hours of ELL classes.

<b>LITERACY</b>			(4 Hours) 10 Students
<b>PE/E OR BASIC CONVERSATIONAL ENGLISH AND ACADEMIC VOCABULARY 1-2</b> 60 minutes	<b>LITERACY SEI ENGLISH READING 1-2</b> 60 minutes	<b>LITERACY ENGLISH WRITING AND GRAMMAR 1-2</b> 2 hour block	

<b>PRE-EMERGENT/EMERGENT</b>			(4 Hours) 16 Students
<b>PE/E CONVERSATIONAL ENGLISH AND ACADEMIC VOCABULARY 1-2</b> 60 minutes	<b>PE/E SEI ENGLISH READING 1-2</b> 60 minutes	<b>PE/E ENGLISH WRITING AND GRAMMAR 1-2</b> 2 hour block	

<b>BASIC</b>			(4 Hours) 20 Students
<b>BASIC CONVERSATIONAL ENGLISH AND ACADEMIC VOCABULARY 1-2</b> 60 minutes	<b>BASIC SEI ENGLISH READING 1-2</b> 60 minutes	<b>BASIC ENGLISH WRITING AND GRAMMAR 1-2</b> 2 hour block	

<b>INTERMEDIATE 1-2</b>			(4 Hours) 24 Students
<b>INTERMEDIATE ENGLISH LANGUAGE ARTS (SEI) 1-2</b> 2 hour block	<b>INTERMEDIATE SEI ACADEMIC ENGLISH READING 1-2</b> 60 minutes	<b>INTERMEDIATE ACADEMIC ENGLISH WRITING AND GRAMMAR 1-2</b> 60 minutes	

<b>INTERMEDIATE 3-4</b>			(4 Hours) 24 Students
<b>INTERMEDIATE ENGLISH LANGUAGE ARTS (SEI) 1-2</b> 2 hour block	<b>INTERMEDIATE SEI ACADEMIC ENGLISH READING 3-4</b> 60 minutes	<b>INTERMEDIATE ACADEMIC ENGLISH WRITING AND GRAMMAR 3-4</b> 60 minutes	



## ENGLISH LANGUAGE LEARNERS (ELL) SEI MODEL COURSES

### ELL COURSE REQUIREMENTS

Arizona Revised Statutes (A.R.S.). § 15-756.01 requires a minimum of four hours per day of English language development for the first year in which a pupil is classified as an English Language Learner. Therefore, regardless of a student's English proficiency as measured by Arizona English Language Learner Assessment (AZELLA), all students who qualify as ELL for the first time in Arizona will be required to take four hours of ELL classes.

### LITERACY

#### LITERACY SEI ENGLISH READING 1-2

Two-semester course, grade level 9, 10, 11, 12

Eligible students: Students with very limited literacy skills in any language  
Prerequisite: None

Placement in the class is determined by the combined student information gathered through AZELLA testing, educational history, and an assessment of native language literacy skills. This course is designed for a small population of newly-immigrated students who have had little or no previous schooling. The purpose of the course is to promote English acquisition and to provide basic reading skills. This course is staffed 10:1. This course does not count towards the English graduation requirements. Students receive one-half unit of elective credit per semester. Literacy students must also be enrolled in the Literacy Writing and Grammar 1-2 block and Pre-Emergent/Emergent or Basic Conversational English and Academic Vocabulary classes depending on their AZELLA sub-scores.

#### LITERACY ENGLISH WRITING AND GRAMMAR 1-2

Two-semester course, grade level 9, 10, 11, 12

Eligible students: Students with very limited literacy skills in any language  
Prerequisite: None

Placement in the class is determined by the combined student information gathered through AZELLA testing, educational history, and an assessment of native language literacy skills. This course is designed for a small population of newly-immigrated students who have had little or no previous schooling. The purpose of the course is to promote English acquisition, to provide basic writing and grammar skills, and to orient the students to school culture. This course is a two-period block of instruction and is staffed 10:1. This course does not count towards the English graduation requirements. Students receive one elective credit per semester. Literacy students must also be enrolled in Literacy SEI English Reading 1-2 and Pre-Emergent/Emergent or Basic Conversational English and Academic Vocabulary classes depending on their AZELLA sub-scores.

### PRE-EMERGENT/EMERGENT

#### PRE-EMERGENT/EMERGENT CONVERSATIONAL ENGLISH AND ACADEMIC VOCABULARY 1-2

##### ELECTIVE

Two-semester course, grade level 9, 10, 11, 12

Eligible students: AZELLA composite score of Pre-Emergent or Emergent  
Prerequisite: None

This one period course is designed for non-English proficient students with AZELLA composite scores of Pre-Emergent or Emergent. Students develop oral communication and academic vocabulary in English as identified by the state ELL Listening and Speaking Proficiency Standards and the Discrete Skills Inventory. The delivery and comprehension of oral communication, use of standard English conventions, and use of academic vocabulary are taught through the use of significant themes and high-interest content in meaningful context. Each semester students will earn one-half unit of elective credit. Students must also be enrolled in Pre-Emergent/Emergent English Writing and Grammar 1-2 and Pre-Emergent/Emergent English Reading.

### PRE-EMERGENT/EMERGENT SEI

#### ENGLISH READING 1-2

Two-semester course, grade level 9, 10, 11, 12

Eligible students: AZELLA composite score of Pre-Emergent or Emergent  
Prerequisite: None

This one period course is designed for non-English proficient students with AZELLA composite scores of Pre-Emergent or Emergent. Students develop decoding and comprehension skills in English as identified by the state ELL Reading Proficiency Standards. The five components of reading: phonemic awareness, phonics, vocabulary development, reading fluency and reading comprehension are taught through the use of significant themes and high interest content in meaningful context. Each semester students will earn one-half unit of elective credit. Students must also be enrolled in Pre-Emergent/Emergent English Writing and Grammar 1-2 and Pre-Emergent/Emergent English Conversational English and Academic Vocabulary.

### PRE-EMERGENT/EMERGENT

#### ENGLISH WRITING AND GRAMMAR 1-2

##### ELECTIVE 1-2

##### ENGLISH 1-2

Two-semester course, grade level 9, 10, 11, 12

Eligible students: AZELLA composite score of Pre-Emergent or Emergent  
Prerequisite: None

This two-period block course is designed for non-English proficient students with AZELLA composite scores of Pre-Emergent or Emergent. Students develop writing and grammar skills in English as identified by the state ELL Writing Proficiency Standards and the Discrete Skills Inventory. Beginning control of the six traits of writing and correct usage of level appropriate syntax, morphology, phonology, semantics, lexicon and pragmatics are taught through the use of significant themes and high-interest content in meaningful context. Each semester students will earn one-half unit of regular English credit and one-half unit of elective credit. Students must also be enrolled in Pre-Emergent/Emergent English Reading and Pre-Emergent/Emergent Conversational English and Academic Vocabulary.

### BASIC

#### BASIC CONVERSATIONAL ENGLISH AND ACADEMIC VOCABULARY 1-2

Two-semester course, grade level 9, 10, 11, 12

Eligible students: AZELLA composite score of Basic  
Prerequisite: None

This one period course is designed for limited-English proficient students with AZELLA composite scores of Basic. Students develop oral communication and academic vocabulary as identified by the state ELL Proficiency Standards. The delivery and comprehension of oral communication, use of standard English conventions, and use of academic vocabulary are taught through the use of significant themes and high-interest content in meaningful context. Each semester students will earn one-half unit of elective credit. Students must also be enrolled in Basic English Reading and Basic English Writing and Grammar.

**BASIC SEI ENGLISH READING 1-2**

Two-semester course, grade level 9, 10, 11, 12  
 Eligible students: AZELLA composite score of Basic  
 Prerequisite: None

This one period course is designed for limited-English proficient students with AZELLA composite scores of Basic. Students will develop reading skills in English as identified by the state ELL Reading Proficiency Standards. The skills that define the reading process and the comprehension of literary and informational text are taught through the use of significant themes and high-interest content in meaningful context. Students will also learn reading and test-taking strategies to prepare them for the AIMS test. Each semester students will earn one-half unit of elective credit. Students must also be enrolled in Basic Conversational English and Academic Vocabulary and Basic Writing and Grammar.

**BASIC ENGLISH WRITING AND GRAMMAR 1-2**

**ELECTIVE 1-2  
 ENGLISH 1-2**

Two-semester course, grade level 9, 10, 11, 12  
 Eligible students: AZELLA composite score of Basic  
 Prerequisite: None

This two-period block course is designed for limited-English proficient students with AZELLA composite scores of Basic. Students develop writing and grammar skills in English as identified by the state ELL Writing Proficiency Standards and the Discrete Skills Inventory. Increased control of the six traits of writing and correct grammar usage skills are taught through the use of significant themes and high-interest content in meaningful context. Each semester students will earn one-half unit of regular required English credit and one-half unit of elective credit. Students must also be enrolled in Basic English Reading and Basic Conversational English and Academic Vocabulary.

**INTERMEDIATE 1-2  
 INTERMEDIATE ENGLISH  
 LANGUAGE ARTS (SEI) 1-2  
 ELECTIVE 1-2  
 ENGLISH 1-2**

Two-semester course, grade level 9, 10, 11, 12  
 Eligible students: AZELLA composite score of Intermediate for the first time  
 Prerequisite: None

This two-period block course is designed for limited-English proficient students with AZELLA composite scores of Intermediate for the first time. Students develop reading, writing and grammar skills in English as identified by the state ELL Proficiency Standards and the Arizona Language Arts Standards. Students refine control of the six traits of writing, correct grammar usage, reading decoding and comprehension skills through the use of significant themes and high-interest content in meaningful context. Each semester students will earn one-half unit of regular required English credit and one-half unit of elective credit. Students must also be enrolled in Intermediate Academic English Reading 1-2 and Intermediate Academic English Writing and Grammar 1-2.

**INTERMEDIATE SEI ACADEMIC  
 ENGLISH READING 1-2**

Two-semester course, grade level 9, 10, 11, 12  
 Eligible students: AZELLA composite score of Intermediate for the first time  
 Prerequisite: None

This one period course is designed for limited-English proficient students with AZELLA composite scores of Intermediate for the first time. Students develop reading skills in English as identified by the state ELL Reading Proficiency Standards. The skills that define the reading process and the comprehension of literary and information text are taught through the use of significant themes and high-interest content in meaningful context. Students will also learn reading and test taking strategies to prepare them for the AIMS test. Each semester students will earn one-half unit of elective credit. Students must also be enrolled in Intermediate English Language Arts (SEI) 1-2 and Intermediate Academic English Writing and Grammar 1-2.

**INTERMEDIATE ACADEMIC ENGLISH WRITING  
 AND GRAMMAR 1-2**

Two-semester course, grade level 9, 10, 11, 12  
 Eligible students: AZELLA composite score of Intermediate for the first time.  
 Prerequisite: None

This one period course is designed for limited-English proficient students with AZELLA composite scores of Intermediate for the first time. Students develop writing and grammar skills in English as identified by the state ELL Writing Proficiency Standards and the Discrete Skills Inventory. Increased control of the six traits of writing and correct grammar usage skills are taught through the use of significant themes and high-interest content in meaningful context. Each semester students will earn one-half unit of regular required English credit and one-half unit of elective credit. Students must also be enrolled in Intermediate English Language Arts (SEI) and Intermediate Academic English Reading.

**INTERMEDIATE 3-4  
 INTERMEDIATE ENGLISH LANGUAGE ARTS (SEI) 3-4  
 ELECTIVE 3-4  
 ENGLISH 3-4**

Two-semester course, grade level 10, 11, 12  
 Eligible students: AZELLA composite score of Intermediate for two or more years  
 Prerequisite: None

This two-period block course is designed for limited-English proficient students with AZELLA composite scores of Intermediate for two or more years. Students develop reading, writing and grammar skills in English as identified by the state ELL Proficiency Standards and the Arizona Language Arts standards. Reading and writing skills assessed on the AIMS test will be emphasized. Each semester students will earn one-half unit of regular required English credit and one-half unit of elective credit.

**INTERMEDIATE SEI ACADEMIC  
 ENGLISH READING 3-4**

Two-semester course, grade level 10, 11, 12  
 Eligible students: AZELLA composite score of Intermediate for two or more years  
 Prerequisite: None

This one period course is designed for limited-English proficient students with AZELLA composite scores of Intermediate for two or more years. Students develop reading skills in English as identified by the state ELL Reading Proficiency Standards. The skills that define the reading process and the comprehension of literary and information text are taught through the use of significant themes and high-interest content in meaningful context. Students will also learn reading and test taking strategies to prepare them for the AIMS test. Each semester students will earn one-half unit of elective credit.

**INTERMEDIATE ACADEMIC ENGLISH  
WRITING AND GRAMMAR 3-4**

Two-semester course, grade level 10, 11, 12  
Eligible students: AZELLA composite score of Intermediate for two or more years  
Prerequisite: None

This one period course is designed for limited-English proficient students with AZELLA composite scores of Intermediate for two or more years. Students develop writing and grammar skills in English as identified by the state ELL Writing Proficiency Standards and the Discrete Skills Inventory. Increased control of the six traits of writing and correct grammar usage skills are taught through the use of significant themes and high-interest content in meaningful context. Each semester students will earn one-half unit of elective credit.

**ADVANCED LEADERSHIP EDUCATION & TRAINING  
FOURTH YEAR (LET-4) 1-2**

Two-semester course, grade level 12  
Prerequisites: LET 1, 2, 3

The capstone of the JROTC leadership program is designed to place selected students in responsible leadership roles where they can exercise previously gained skills and knowledge. The program is flexible enough to permit the cadet leader and his/her staff to plan, organize and execute all activities of the unit.

**ADVANCED LEADERSHIP EDUCATION & TRAINING  
FOURTH YEAR (LET-4) 1-2 H**

Two-semester course, grade level 12  
Prerequisites: LET 3 and Instructor permission

This capstone course is for selected fourth year students who have demonstrated the ability and potential to succeed in the key command and staff positions in the cadet battalion. Students will perform across the wide range of leadership responsibilities.

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**JROTC**

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**INTRODUCTION TO LEADERSHIP EDUCATION &  
TRAINING FIRST YEAR (LET-1) 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This course is an introduction to responsible citizenship and discipline designed to provide the student with a broad overview of JROTC, development of self-confidence, role of a leader, teamwork and basic communication skills. Membership in drill, rifle team or adventure training activities are available.

**INTERMEDIATE LEADERSHIP EDUCATION &  
TRAINING SECOND YEAR (LET-2) 1-2**

Two-semester course, grade level 10, 11, 12  
Prerequisite: LET 1

This course is a continuation and broadening of the JROTC motivational skills and knowledge gained in LET-1 designed to increase the students' awareness of group behavior, respect for authority and basic organizational concepts of unit operations.

**APPLIED LEADERSHIP EDUCATION & TRAINING  
THIRD YEAR (LET-3) 1-2**

Two-semester course, grade level 11, 12  
Prerequisites: LET 1, 2

This course provides an expansion of the knowledge gained in LET-1 and LET-2 and is designed to permit students to exercise quality leadership over their respective JROTC unit activities. Historical perspectives of the United States Army are presented as well as material on service career opportunities.

**APPLIED LEADERSHIP EDUCATION & TRAINING  
THIRD YEAR (LET-3) 1-2 H**

Two-semester course, grade level 12  
Prerequisites: LET 2 and Instructor permission

This course is for selected third-year students who are assigned to specific leadership and battalion staff positions. It builds on the skills and experiences garnered in the first two years and provides special leadership challenges and opportunities.

# MATH COURSE SEQUENCE

Students entering the ninth grade in 1998-99 and through 2008-09 must successfully complete at least three (3) units of Mathematics or Honors sequence.

Students entering the ninth grade in 2009-10 and later must successfully complete at least four (4) units of mathematics and one of the credits must be equivalent to Algebra 3-4.

Arizona university admission for mathematics requires a passing grade of C in Algebra 1-2 (H), Geometry 1-2 (H), Algebra 3-4 (H), and one (1) additional math credit for which Algebra 3-4 is a prerequisite.

Incoming Freshman are placed in mathematics courses according to their 7th and 8th grade Math AIMS performance, 8th grade teacher recommendation, and scores on the Algebra and Geometry Qualifying Test.

An alternate sequence for Special Education students may be determined by the students Individualized Education Plan team.

MATH COURSE SEQUENCE				
Placement Recommendation	Recommended for Algebra	Passed AQT in 8th grade	Passed AQT in 7th grade and GQT in 8th grade	Recommended for Intro to Algebra
9th grade	Algebra 1-2 or Algebra 1-2 H (IB)	Geometry 1-2 or Geometry 1-2 H (IB)	<b>Algebra 3-4 or Algebra 3-4 H</b>	Intro to Algebra 1-2
10th grade	Geometry 1-2 or Geometry 1-2 H (IB)	<b>Algebra 3-4 or Algebra 3-4 Honors</b>	Pre-Calculus 1-2 H or 4th credit options*	Algebra 1-2 or Algebra 1-2 H (IB)
11th grade	<b>Algebra 3-4 or Algebra 3-4 H</b>	Pre-Calculus 1-2 H or 4th credit options*	AP Calculus AB or 4th credit options*	Geometry 1-2 or Geometry 1-2 H (IB)
12th grade	Pre-Calculus 1-2 H or 4th credit options*	AP Calculus AB or 4th credit options*	AP Calculus BC or 4th credit options*	<b>Algebra 3-4 or Algebra 3-4 H</b>

\*4th credit options: Pre-Calculus 1-2 Honors, Discrete Mathematics with Modeling 1-2, Trigonometry 1-2, AP Statistics, Financial Algebra and Principles of Math Technology

Students who fail one or more semesters of a course must complete available credit recovery options (i.e. summer school, evening school) or they may not progress to the next course.

## MATHEMATICS

### GRADUATION REQUIREMENT/STATE STANDARDS

Beginning with the graduating class of 2006, students must demonstrate proficiency on the Mathematics standards of the Arizona Standards for Mathematics as measured by the state-mandated AIMS test.

Students entering the ninth grade in 1998-99 and through 2008-09 must successfully complete at least three (3) units of Mathematics or Honors sequence (see p. A5).

Students entering the ninth grade in 2009-10 and later must successfully complete at least four (4) units of mathematics and one of the credits must be equivalent to Algebra 3-4.

Arizona university admission for mathematics requires a passing grade of C in Algebra 1-2 (H), Geometry 1-2 (H), Algebra 3-4 (H), and one (1) additional math credit that Algebra 3-4 is a prerequisite.

### INTRO TO ALGEBRA 1-2

Two-semester course, grade level 9  
Meets PUHSD and Arizona Mathematics Standards graduation requirements  
Does not meet mathematics admissions requirements of Arizona universities

Introduction to Algebra is designed to strengthen students' algebraic skills and will provide a strong foundation for the Algebra 1-2 course. Intro to Algebra concept units include number sense, integers, graphing and solving linear functions, proportions, probability and data analysis.

### ALGEBRA 1-2

Two-semester course, grade level 9, 10  
Meets PUHSD and Arizona Mathematics Standards graduation requirements  
Meets mathematics admission requirements of Arizona universities

This course is designed to prepare students to meet the AIMS graduation requirement and provide students with the mathematical background necessary to meet college entrance requirements. Concept units include solving, graphing and writing linear functions, system of equations, exponents, radicals, polynomials, quadratics and data analysis. Students who have previously received credit for Algebra 1-2 H may not receive credit for Algebra 1-2.

### ALGEBRA 1-2 H

Two-semester course, grade level 9, 10  
Meets placement criteria on standardized test  
Meets PUHSD and Arizona Mathematics Standards graduation requirements  
Meets mathematics admission requirements of Arizona universities

This is the first course of a four-year program in the Honors sequence designed to prepare students for careers in mathematics, science, engineering or related fields. Concept units are similar to those in Algebra 1-2, and focus on tasks that are inquiry based and more in depth. This course is an integration of technology, inquiry-based learning, critical thinking, with a culminating capstone project. Students who receive credit for Algebra 1-2 H may not also receive credit for Algebra 1-2 or Introduction to Algebra 1-2.



## GEOMETRY 1-2

Two-semester course, grade level 9, 10, 11

Prerequisite: Algebra 1-2

Meets PUHSD and Arizona Mathematics Standards graduation requirements  
Meets mathematics admission requirements of Arizona universities

This course, with its prerequisites, is designed to prepare students to meet the AIMS graduation requirement, and provide students with the mathematical background necessary to meet college entrance requirements. Concept units include coordinate geometry, perpendicular and parallel lines, logical reasoning, properties of triangles and quadrilaterals, transformations, quadratic relations, right triangle trigonometry, similar and congruent figures, two and three dimensional figures, circles and data analysis. Students who have previously received credit for Geometry 1-2 H may not also receive credit for Geometry 1-2.

## GEOMETRY 1-2 H

Two-semester course, grade level 9, 10, 11

Prerequisite: Algebra 1-2 H or Algebra 1-2 with a grade of C or better  
Meets PUHSD and Arizona Mathematics Standards graduation requirements  
Meets mathematics admission requirements of Arizona universities

This is the second course of the honors sequence. This course is designed to provide students with the mathematical background necessary for careers in science, mathematics or engineering. Concept units are similar to those in Geometry 1-2 and focus on tasks that are inquiry based and more in depth. This course is an integration of technology, inquiry-based learning, critical thinking, with a culminating capstone project. Students who have previously received credit for Geometry 1-2, may not also receive credit for Geometry 1-2 H.

## ALGEBRA 3-4

Two-semester course, grade level 10, 11, 12

Prerequisite: Geometry 1-2 with a grade of C or better

Meets PUHSD and Arizona Mathematics Standards graduation requirements  
Meets math admission requirements of Arizona universities

This course is designed to provide students with the mathematical background necessary to meet college entrance requirements and is aligned with the Arizona College and Work Readiness Mathematics Standards. Concept units include systems of linear equations and inequalities, matrices, determinants, quadratics functions, properties of exponents, polynomial functions, power roots and radicals, exponential and logarithmic functions, rational equations and functions, and trigonometric ratios and functions. Students who have previously received credit for Algebra 3-4 H may not receive credit for Algebra 3-4. Students entering the ninth grade in 2009-2010 and later must successfully complete at least four (4) units of mathematics and one of the credits must be equivalent to Algebra 3-4.

## ALGEBRA 4 ESSENTIALS

One-semester course, grade level 10, 11, 12

Prerequisite: algebra 3 teacher recommendation

Meets PUHSD and Arizona mathematics standards graduation requirements

This course is an alternative to Algebra 4, or Algebra 4 Honors and is designed to provide students the necessary mathematical content of the second semester of Algebra 3-4 and is aligned with the Arizona College and work readiness mathematics standards. Concept units include polynomial functions, powers, roots and radicals, exponential functions, rational functions, and trigonometric ratios and functions. Students who have previously received credit for Algebra 4 or Algebra 4H may not receive credit for Algebra 4 essential. Students entering the ninth grade in 2009-2010 and later must successfully complete at least four (4) units of mathematics and one of the credits must be equivalent to Algebra 3-4.

## ALGEBRA 3-4 H

Two-semester course, grade level 9, 10, 11

Prerequisite: Geometry 1-2 H or Geometry 1-2 with a grade of C or better

Meets PUHSD and Arizona Mathematics Standards graduation requirements  
Meets mathematics admission requirements of Arizona universities

This is the third course of the honors sequence. This course is designed to provide students with the mathematical back-ground necessary to prepare students for careers in science, mathematics or engineering and is aligned with the Arizona College and Work Readiness Mathematics Standards. Concept units are similar to those in Algebra 3-4, and focus on tasks that are inquiry-based and more indepth. Additional concept units include quadratics and conics, trigonometric graphs, identities and equations. This course is an integration of technology, inquiry-based learning, critical thinking, with a culminating capstone project. Students who have previously received credit for Algebra 3-4 may not receive credit for Algebra 3-4 H.

## DISCRETE MATHEMATICS WITH MODELING 1-2

Two-semester course, grade level 11, 12

Prerequisite: Passing grade in Algebra 3-4 or Algebra 3-4 H or equivalent or Instructor recommendation

Meets PUHSD and Arizona Mathematics Standards graduation requirements  
Meets mathematics admission requirements of Arizona universities

This course is aligned with the AZ College and Work Readiness Mathematics Standards and fulfills the fourth mathematics credit needed for graduation. This is a course where students will make connections and build relationships through the study of mathematical structures, integrating technology to assist in developing algorithms. Concept units include Algebra Modeling, Data Modeling, Probability and Combinatorics, Vertex-Edge Graphs, and Analysis of Change. Depending on individual test scores, students may earn dual college credit for this course.

## PRE-CALCULUS 1-2

Two-semester course, grade level 10, 11, 12

Prerequisite: Algebra 3-4 with a grade of C or better or Algebra 3-4 H

Meets PUHSD and Arizona Mathematics Standards graduation requirements  
Meets mathematics admission requirements of Arizona universities

Pre-Calculus 1-2 is designed to prepare students for the study of calculus and is aligned with the Arizona College and Work Readiness Mathematics Standards. Concept units include functions, exponents, logarithms, analytic geometry, trigonometric functions and equations, triangle trigonometry, trigonometric addition formulas, polar coordinates, complex numbers, vectors, determinants, and sequences and series. Technology will play a large part in this course; especially hand-held graphing calculators. Depending on individual test scores, students may earn dual college credit for this course.

## PRE-CALCULUS 1-2 H

Two-semester course, grade level 10, 11, 12

Prerequisite: Algebra 3-4 Honors with a grade of C or teacher recommendation

Meets PUHSD and Arizona Mathematics Standards graduation requirements  
Meets mathematics admission requirements of Arizona universities

This is the fourth course of the honors sequence. Pre-Calculus 1-2 H is designed to prepare students for the study of calculus and is aligned with the Arizona College and Work Readiness Mathematics Standards. Concept units include functions, exponents, logarithms, analytic geometry, trigonometric functions and equations, triangle trigonometry, trigonometric addition formulas, polar coordinates, complex numbers, vectors, determinants, limits, sequences, series and an introduction to differential calculus. This course is an integration of technology, inquiry-based learning, critical thinking, with a culminating capstone project. Depending on individual test scores, students may earn dual college credit for this course

**PRE-CALCULUS / CALCULUS A 1-2 H**

Two-semester course, grade level 10, 11, 12  
 Prerequisite: Algebra 3-4 H with a grade of C or Teacher Recommendation  
 Meets PUHSD and Arizona Mathematics Standards graduation requirements  
 Meets mathematics admission requirements of Arizona universities

This is the fourth course of the honors sequence. Pre-Calculus /Calculus A 1-2 H is designed to prepare students for the study of calculus BC and is aligned with the Arizona College and Work Readiness Mathematics Standards. Concept units include functions, exponents, logarithms, analytic geometry, trigonometric functions and equations, triangle trigonometry, trigonometric addition formulas, polar coordinates, complex numbers, vectors, determinants, limits, sequences, series and differential calculus. This course is an integration of technology, inquiry-based learning, critical thinking, with a culminating capstone project. Depending on individual test scores, students may earn dual college credit for this course

**AP CALCULUS AB**

Two-semester course, grade level 11, 12  
 Prerequisite: Pre-Calculus 1-2 H or Accelerate to Calculus Honors (summer course)  
 Meets PUHSD and Arizona Mathematics Standards graduation requirements  
 Meets mathematics admission requirements of Arizona universities

AP Calculus AB follows the recommendations of the College Entrance Examination Board for the Advanced Placement program in mathematics and parallels the college calculus course. Due to the rigor of the AP program, this course receives honors credit. Depending on individual test scores, students may earn dual or advanced placement college credit for this course.

**AP CALCULUS BC**

Two-semester course, grade level 11, 12  
 Prerequisite: AP Calculus AB or Calculus I 1-2 H  
 Meets PUHSD and Arizona Mathematics Standards graduation requirements  
 Meets mathematics admission requirements of Arizona universities

AP Calculus BC is designed to prepare students for the BC level of the Advanced Placement Examination in Mathematics. The curriculum follows the syllabus established by the College Board for Calculus BC and parallels a college calculus course. Due to the rigor of the AP program, this course receives honors credit. Depending on individual test scores, students may earn dual or advanced placement college credit for this course.

**AP STATISTICS**

Two-semester course, grade level 11, 12  
 Prerequisite: Algebra 3-4 or Algebra 3-4 H with grade of C or better  
 Meets PUHSD and Arizona Mathematics Standards graduation requirements  
 Meets mathematics admission requirements of Arizona universities

AP Statistics is designed to prepare students for the Statistics Advanced Placement Examination in Mathematics. The curriculum follows the syllabus established by the College Board for Statistics and parallels a college introductory statistics course. Due to the rigor of the AP program, this course receives honors credit. Depending on the individual test scores, students may earn dual or advanced placement college credit for this course.

**FINANCIAL ALGEBRA**

One-semester course, grade level 11, 12  
 Prerequisite: Passing grade in Algebra 3-4  
 Meets PUHSD and Arizona Mathematics Standards graduation requirements  
 Meets mathematics admission requirements of Arizona universities

This course is aligned with the Arizona College and Work Readiness Mathematics Standards and fulfills the fourth mathematics credit needed for graduation. Students will develop fluency with mathematical reasoning for personal finances. Students will become fluent with Excel spreadsheets to work with computation and simulation of the mathematical concepts. Concepts include: investigating properties of exponential functions, developing skills in manipulating exponential expressions, solving problems and investigating financial applications involving compound interest and annuities, and applying mathematics in making informed decisions about personal finances, consumer options, and investments.

**PRINCIPLES OF MATH TECHNOLOGY 1**

One-semester course, grade level 11, 12  
 Prerequisite: Passing grade in Algebra 3-4 or Algebra 3-4 H  
 Meets PUHSD and Arizona Mathematics Standards graduation requirements  
 Meets mathematics admission requirements of Arizona universities

This course is aligned with the Arizona College and Work Readiness Mathematics Standards and fulfills the fourth mathematics credit needed for graduation. Principles of Math Technology will provide students the basics on how computers and hand-held technology can make mathematical analysis more powerful and efficient. Mathematical concepts include: equations, functions and relations with technology, data preparation, statistics, regressions, and set theory. Mathematical skills involving setting up equations, basic set theory, and using logical processes are needed.

**TRIGONOMETRY 1-2**

Two-semester course, grade level 11, 12  
 Prerequisite: Passing grade in Algebra 3-4 or Algebra 3-4 H  
 Meets PUHSD and Arizona Mathematics Standards graduation requirement  
 Meets mathematics admission requirements of Arizona universities

This course is aligned with the Arizona College and Work Readiness Mathematics Standards and meets the fourth mathematics credit needed for graduation. This course prepares students for further studies in mathematics or for work in technical fields. Students learn the six trigonometric functions and demonstrate their use in the identities, inverse functions, radian measures, and special triangles. This course provides students with a background in both circular and periodic trigonometric functions. Its usefulness will be found in upper level math courses as well as several technical fields. Further, it will prepare students for items that will be encountered on college entrance exams and/or placement tests. Depending on the individual test scores, students may earn dual college credit for this course.

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**MATHEMATICS ELECTIVES**

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**NEWCOMER MATHEMATICS**

Two-semester course, grade level 9  
 Does not meet PUHSD and Arizona Math Standards graduation requirements  
 Does not meet mathematics admission requirements of Arizona universities

Newcomer Mathematics is designed to enable newly immigrated students who have not received adequate instruction in basic mathematics to master the skills which are prerequisite to Introduction to Algebra. The course covers the skills typically taught in grades 1 through 8 in Arizona schools. Only elective mathematics credit is awarded for this course.

**COLLEGE AND CAREER READINESS: MATHEMATICS**

One-semester course, grade level 10, 11, 12; .5 credit  
 Prerequisite: Non-proficiency on AIMS  
 Does not meet PUHSD and Arizona Math Standards graduation requirements  
 Does not meet mathematics admission requirements of Arizona universities

This course is to prepare those students who have not passed the math portion of the AIMS test as 10th graders. Students not passing may enroll as juniors or seniors. Only elective math credit is awarded for this course.

## ALGEBRA LABORATORY 1-2

Two-semester course, grade level 9  
Does not meet PUHSD and Arizona Math Standards graduation requirements  
Does not meet mathematics admission requirements of Arizona universities

Algebra Lab will provide more instruction time using a hands-on approach for the student who needs additional mathematics support in Algebra 1-2. Students will be placed in Algebra Lab 1-2 according to 8th grade teacher recommendations, parent/student requests, test results and/or 9th grade teacher recommendations. Only elective math credit is awarded for this course. Students will receive a Proficient or Not Proficient mark (P/NP).

## ALGEBRA LABORATORY 3-4

Two-semester course, grade level 11, 12  
Does not meet PUHSD and Arizona Math Standards graduation requirements  
Does not meet mathematics admission requirements of Arizona universities

Algebra Lab 3-4 is a course that will explore and discover mathematical concepts in order to provide a deeper understanding for Algebra 3-4 and beyond. Students will explore the foundational concepts of Algebra 3-4 with the use of technology and collaborative learning. The lab will provide more instruction time using a hands-on-approach for the student that needs additional math support in Algebra 3-4. Students will be recommended for this course by their Geometry teacher, based on their Algebra and Geometry experience. Only elective math credit is awarded for this course. Students will receive a Proficient or Not Proficient mark (P/NP).

## ALGEBRA READINESS 1-2

For Basic and Practical students only  
Two-semester course, grade level 9  
Prerequisite: None

This course will address the core of student difficulty in algebra by focusing on readiness skills of concept development. Coursework will focus on conceptual understanding of basic skills necessary for success in algebra. Students will acquire the skills necessary for algebra success by using cooperative learning, problem-solving strategies and critical thinking skills

## GEOMETRY LAB 1-2

Two-semester course, grade level 10, 11, 12  
Prerequisite: Successful completion of Algebra 1-2

Geometry Lab will provide more instruction time using a hands-on approach for the student who needs additional mathematics support in Geometry. Students will be placed in Geometry 1-2 as well as in Geometry Lab. Only elective math credit is awarded for this course. Students will receive a Proficient or Not Proficient mark (P/NP).

## CCA: CONNECT TO COLLEGE ALGEBRA (SUMMER)

Summer School offering for grade level 10, 11, 12  
One semester course  
Prerequisite: Passing grade in Geometry 1-2 or 1-2 H

CCA: Connect to College Algebra is a course that will explore and discover mathematical concepts in order to provide a deeper understanding for Algebra 3-4 and beyond. Students will explore the foundational concepts of Algebra 3-4 with the use of technology and collaborative learning. Students will connect their learning to College Algebra and become familiar with college entrance exams. Course topics will include exponents, Algebraic expression, Equations and Inequalities, Factoring and Systems of equations. Students who have successfully completed Geometry 1-2 or Geometry 1-2 Honors and want to be successful in Algebra 3-4 may enroll in this summer school course. Students who successfully complete this course will receive 0.5 Math elective credit or replace a missing Algebra 1 or Algebra 2 credit.

## MATHEMATICS INDEPENDENT STUDY 1-2

Two-semester course, grade level 12  
Prerequisite: Prior approval of the Principal, Mathematics Instructor and Instructional Leader  
Does not meet PUHSD and AIMS graduation requirements  
Does not meet mathematics admission requirements of Arizona universities

Mathematics Independent Study 1-2 provides the opportunity for the advanced student to investigate and study independently an area of his or her own choosing in mathematics. Specific requirements for credit are determined by the student, teacher, department chairperson and principal. The student must follow District procedures for independent study and should consult with the counseling department.

## ACCELERATE TO CALCULUS HONORS (SUMMER)

Summer School offering for grade level 10, 11, 12  
One semester course

Accelerate to Calculus is a summer course that is an introduction to AP Calculus. This course provides students foundational skills necessary for the successful completion of AP Calculus. Topics include linear models, functions, trigonometry, finding and evaluating limits, and infinite limits. Students who have successfully completed Algebra 3-4 or Algebra 3-4 Honors and want to take Calculus or students who have successfully passed Pre-Calculus and would like some extra support before they take AP Calculus AB, may enroll in this summer school course. Students who successfully complete this course will receive .5 math credit.



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# PERFORMING ARTS

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## FINE ARTS GRADUATION REQUIREMENT

Students are placed in performing arts courses based on two criteria: First, the student's ability, skill, and knowledge level; and second, the student's semester in that specific performing art program. Students do not necessarily start with a beginning level course within the program; they are placed in the course level based on the above criteria.

One unit (two semesters) of any Performing Arts course will satisfy the PUHSD graduation requirement of 1.0 credit in Fine Arts.

## DANCE

### BEGINNING DANCE 1-2

### BEGINNING DANCE 3-4

### BEGINNING DANCE 5-6

### BEGINNING DANCE 7-8

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This one-year course, designed for the beginning level dancer, introduces basic techniques in ballet, modern and jazz, as well as improvisation, choreography and concert production. This is a fun, challenging, active course emphasizing all aspects of the art of dance. Class activities will include performances and written assignments. This course demands a high level of effort and commitment while encouraging enjoyment of creative expression.

### INTERMEDIATE DANCE 1-2

### INTERMEDIATE DANCE 3-4

### INTERMEDIATE DANCE 5-6

### INTERMEDIATE DANCE 7-8

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Beginning Dance or Instructor approval

This one-year course provides continued study for dance students who have achieved basic levels of skill, technique and knowledge in ballet, modern, jazz, improvisation and dance composition. Emphasis is placed on student choreography, performance and ongoing artistic growth. This course demands a high level of effort and commitment while encouraging enjoyment of creative expression.

### ADVANCED DANCE 1-2 H

### ADVANCED DANCE 3-4 H

### ADVANCED DANCE 5-6 H

### ADVANCED DANCE 7-8 H

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Intermediate Dance or Instructor approval

This course is for students with extensive experience in dance. The course addresses the dance standards at the advanced level and demands a high level of effort and commitment while encouraging enjoyment of creative expression. Students will create, perform and analyze electronic and live performances. History, culture, and technology will be examined as they are woven throughout the course and career opportunities will be explored. Students will be expected to accomplish in-depth research, analysis, reflection, applications, and production/performances. For honors credit, additional performance and leadership opportunities and higher level creative processes are expected.

### COMPANY DANCE 1-2 H

### COMPANY DANCE 3-4 H

### COMPANY DANCE 5-6 H

### COMPANY DANCE 7-8 H

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Advanced Dance or Instructor approval

This course is for students with extensive experience in dance. The course addresses the dance standards at the distinction level and demands a high level of effort and commitment while encouraging enjoyment of creative expression. Students will create, perform and analyze electronic and live performances. History, culture, and technology will be examined as they are woven throughout the course and career opportunities will be explored. Students will be expected to accomplish in-depth research, analysis, reflection, applications, and production/performances. For honors credit, additional performance opportunities and higher level creative processes are expected.

## THEATRE ARTS

### INTRO TO THEATRE ARTS 1-2

### INTRO TO THEATRE ARTS 3-4

### INTRO TO THEATRE ARTS 5-6

### INTRO TO THEATRE ARTS 7-8

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

The purpose of this year-long course is to give the student an appreciation of and experience in theatre as an art form. The student will act in pantomimes, plays and play cuttings. Students will be introduced to technical theatre history and culture. The student will read, write, direct and evaluate plays as well as view and discuss electronic and live performances. This course demands a high level of effort and commitment while encouraging enjoyment of creative expression.

### INTERMEDIATE THEATRE ARTS 1-2

### INTERMEDIATE THEATRE ARTS 3-4

### INTERMEDIATE THEATRE ARTS 5-6

### INTERMEDIATE THEATRE ARTS 7-8

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Intro to Theatre Arts or Instructor approval

The purpose of this year-long course is to give the student an increased appreciation of and additional experience in theater as an art form. The student will act, direct, or be technically involved in scenes, one-act plays or full length productions. Students will read, write and evaluate plays as well as view and critique electronic plays and live performances. History, culture and technology will be examined and career opportunities will be explored. Through creating theatre, students will grow in their ability to comprehend the world and to communicate with others. This course demands a high level of effort and commitment while encouraging enjoyment of creative expression.

### ADVANCED THEATRE ARTS 1-2

### ADVANCED THEATRE ARTS 3-4

### ADVANCED THEATRE ARTS 5-6

### ADVANCED THEATRE ARTS 7-8

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Intermediate Theatre Arts or Instructor approval

This course is for students with extensive experience in theatre. The course addresses the theatre standards at the intermediate, advanced and distinction levels and demands a high level of effort and commitment while encouraging enjoyment of creative expression. Students will read, write and analyze electronic and live performances. History, culture, and technology will be examined as they are woven throughout the course and career opportunities will be explored. Students will be expected to accomplish in-depth research, analysis, reflection, applications, and production/performances.

## **THEATRE PRODUCTION 1-2 H**

## **THEATRE PRODUCTION 3-4 H**

## **THEATRE PRODUCTION 5-6 H**

## **THEATRE PRODUCTION 7-8 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Advanced Theatre Arts or Instructor approval

This course is for students with extensive experience in theatre. The course addresses the theatre standards at the intermediate, advanced and distinction levels and demands a high level of effort and commitment while encouraging enjoyment of creative expression. Students will read, write and analyze electronic and live performances. History, culture, and technology will be examined as they are woven throughout the course and career opportunities will be explored. Students will be expected to accomplish in-depth research, analysis, reflection, applications, and production/performances. For honors credit, additional performance and leadership opportunities and higher level creative processes are expected.

## **INTRO TO TECHNICAL THEATRE 1-2**

## **INTRO TO TECHNICAL THEATRE 3-4**

## **INTRO TO TECHNICAL THEATRE 5-6**

## **INTRO TO TECHNICAL THEATRE 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

Technical Theatre deals with the principles and techniques of set design, scenery and property construction, stage lighting, costuming and makeup. Practical experience is provided in each area of behind-the-scenes production.

## **INTERMEDIATE TECHNICAL THEATRE 1-2**

## **INT. TECHNICAL THEATRE 3-4**

## **INT. TECHNICAL THEATRE 5-6**

## **INT. TECHNICAL THEATRE 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Intro to Technical Theatre 1-2 or Instructor approval

This course is intended for students who are experienced with the techniques of set and lighting design, costume and make up design, and construction. Students will occasionally work with the school's performances. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor. This course may be repeated for credit with the Instructor's approval.

## **ADVANCED TECHNICAL THEATRE 1-2**

## **ADV. TECHNICAL THEATRE 3-4**

## **ADV. TECHNICAL THEATRE 5-6**

## **ADV. TECHNICAL THEATRE 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Intermediate Technical Theatre or Instructor approval

This course is intended for students who are experienced with the techniques of set and lighting design, costume and make up design, and construction and will be focused on an advanced level of standards. Students will occasionally work with the school's performances. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor.

## **TECHNICAL THEATRE**

## **DESIGN & PRODUCTION 1-2 H**

## **TECHNICAL THEATRE**

## **DESIGN & PRODUCTION 3-4 H**

## **TECHNICAL THEATRE**

## **DESIGN & PRODUCTION 5-6 H**

## **TECHNICAL THEATRE**

## **DESIGN & PRODUCTION 7-8 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Advanced Technical Theatre or Instructor approval

This course is intended for students who are experienced with the techniques of set and lighting design, costume and make up design, and construction and will be focused on a distinction level of standards. Students will occasionally work with the school's performances. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor. For honors credit, additional performance and leadership opportunities and higher level creative processes are expected.

## **MUSIC**

## **BAND, ACTIVITY 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This course is for students with experience playing an instrument. The course addresses the three Strands of the Revised Music Standards for Arizona. Students enrolled in this class will NOT participate in Concert/Marching Band. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor.

## **BAND, ACTIVITY 3-4**

Two-semester course, grade level 10, 11, 12

Prerequisite: Activity Band 1-2 or Instructor approval

This course is for students with experience playing an instrument. The course addresses the music standards at the intermediate level. Students enrolled in this class will NOT participate in Concert/Marching Band. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students may be expected to provide and maintain appropriate attire for the ensemble. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor.

## **BAND, ACTIVITY 5-6**

Two-semester course, grade level 11, 12

Prerequisite: Activity Band 3-4 or Instructor approval

This course is for students with experience playing an instrument. The course addresses the music standards at the advanced level. Students enrolled in this class will NOT participate in Concert/Marching Band. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students may be expected to provide and maintain appropriate attire for the ensemble. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor.

## **BAND, ACTIVITY 7-8**

Two-semester course, grade level 12

Prerequisite: Activity Band 5-6 or Instructor approval

This course is for students with experience playing an instrument. The course addresses the music standards at the distinction level. Students enrolled in this class will NOT participate in Concert/Marching Band. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students may be expected to provide and maintain appropriate attire for the ensemble. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor.

## **BEGINNING BAND 1-2**

## **BEGINNING BAND 3-4**

## **BEGINNING BAND 5-6**

## **BEGINNING BAND 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This beginning band course teaches the fundamentals of playing a band instrument. No previous experience is necessary and the school will provide an instrument if necessary. This course addresses the music standards at the foundations level. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor.

## **INTERMEDIATE BAND 1-2**

## **INTERMEDIATE BAND 3-4**

## **INTERMEDIATE BAND 5-6**

## **INTERMEDIATE BAND 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Beginning Band or Instructor approval

This course is for students with experience playing an instrument. The course addresses the music standards at the intermediate level. Extra time is required for rehearsals and performances throughout the concert seasons. Enrollment in the class obligates students to participate in all scheduled activities of the band. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor.

## **CONCERT/MARCHING BAND 1-2**

## **CONCERT/MARCHING BAND 3-4**

## **CONCERT/MARCHING BAND 5-6**

## **CONCERT/MARCHING BAND 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Intermediate Band or Instructor Approval

This course is for students with extensive experience playing an instrument. The course addresses the music standards at the advanced level. During the fall, students participate in the activities of the Concert/Marching Band. Extra time is required for rehearsals and performances throughout the marching and concert seasons. Enrollment in the class obligates students to participate in all scheduled activities of the band. Students maintain their uniforms and provide appropriate shoes and socks. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor.

## **ADVANCED CONCERT/MARCHING BAND 1-2 H**

## **ADVANCED CONCERT/MARCHING BAND 3-4 H**

## **ADVANCED CONCERT/MARCHING BAND 5-6 H**

## **ADVANCED CONCERT/MARCHING BAND 7-8 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Concert/Marching Band or Instructor approval

This course is for students with extensive experience playing an instrument. The course addresses the music standards at the distinction level. Students perform advanced repertoire including audition etudes and sight readings. During the fall, students participate in the activities of the Concert/Marching Band. Extra time is required for rehearsals and performances throughout the marching and concert seasons. Enrollment in the class obligates students to participate in all scheduled activities of the band. Students maintain their uniforms and provide appropriate shoes and socks. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor. For honors credit, additional performance and leadership opportunities and higher level creative processes are expected.

## **BEGINNING JAZZ BAND 1-2**

## **BEGINNING JAZZ BAND 3-4**

## **BEGINNING JAZZ BAND 5-6**

## **BEGINNING JAZZ BAND 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval. Students must be concurrently enrolled in a Concert/Marching Band 1-2. With Instructor approval, guitar, keyboard and electric bass players may enroll in a Band 1-2 without concurrent enrollment in a Concert/Marching Band 1-2.

This course is for beginning students who are interested in jazz ensemble performance skills and the development of skills in improvisation. The course addresses the standards taught in Concert/Marching Band 1-2. Students may occasionally perform in public with the group or in small ensembles. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor.

## **INTERMEDIATE JAZZ BAND 1-2**

## **INTERMEDIATE JAZZ BAND 3-4**

## **INTERMEDIATE JAZZ BAND 5-6**

## **INTERMEDIATE JAZZ BAND 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval. Students must be concurrently enrolled in Concert/Marching Band. With Instructor approval, guitar, keyboard and electric bass players may enroll in Band 3-4 Jazz without concurrent enrollment in Concert/Marching Band.

This course is for experienced students who are interested in jazz ensemble performance skills and the development of skills in improvisation. The course addresses the standards taught in Concert/Marching Band 3-4. Students may occasionally perform in public with the group or in small ensembles. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor.

## **ADVANCED JAZZ BAND 1-2 H**

## **ADVANCED JAZZ BAND 3-4 H**

## **ADVANCED JAZZ BAND 5-6 H**

## **ADVANCED JAZZ BAND 7-8 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval. Students must be concurrently enrolled in Concert/Marching Band. With Instructor approval, players may enroll in Band 5-6 H Jazz without concurrent enrollment in Concert/Marching Band.

This course is for experienced students who are interested in jazz ensemble performance skills and the development of skills in improvisation. The course addresses the standards taught in Advanced Concert/Marching Band 5-6 H. Students may occasionally perform in public with the group or in small ensembles. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor. For honors credit, additional performance and leadership opportunities and higher level creative processes are expected.

## **JAZZ ENSEMBLE 1-2 H**

## **JAZZ ENSEMBLE 3-4 H**

## **JAZZ ENSEMBLE 5-6 H**

## **JAZZ ENSEMBLE 7-8 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval. Students must be concurrently enrolled in Concert/Marching Band. With Instructor approval, guitar, keyboard and electric bass players may enroll in Band 7-8H Jazz without concurrent enrollment in Concert/Marching Band.

This course is for experienced students who are interested in jazz ensemble performance skills and the development of skills in improvisation. The course addresses the standards taught in Concert/Marching Band 7-8 H. Students may occasionally perform in public with the group or in small ensembles. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor. For honors credit, additional performance and leadership opportunities and higher level creative processes are expected.

## **CHOIR 1-2**

## **CHOIR 3-4**

## **CHOIR 5-6**

## **CHOIR 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This course is designed as a vocal experience for students in which they sing for enjoyment, develop vocal skills and read and study a wide variety of choral music. Students will perform with the group in public and may perform in small ensembles. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. This course addresses the music standards at the Foundations level. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor.

## **INTERMEDIATE CHOIR 1-2 H**

## **INTERMEDIATE CHOIR 3-4 H**

## **INTERMEDIATE CHOIR 5-6 H**

## **INTERMEDIATE CHOIR 7-8 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Choir or Instructor approval

This course offers advanced experience in choral singing. The choir provides opportunities for personal development through solo work, public performances and the study of a variety of choral literature. This course addresses the music standards at the Essentials level. Extra time is required for rehearsals and performances. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor. For honors credit, additional performance and leadership opportunities and higher level creative processes are expected.

## **ADVANCED CHOIR 1-2 H**

## **ADVANCED CHOIR 3-4 H**

## **ADVANCED CHOIR 5-6 H**

## **ADVANCED CHOIR 7-8 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Intermediate Choir or Instructor approval

This course offers advanced experience in choral singing. The choir provides opportunities for personal development through solo work, public performances and the study of a variety of choral literature. This course addresses the music standards at the advanced level. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor. For honors credit, additional performance and leadership opportunities and higher level creative processes are expected.

## **VOCAL ENSEMBLE 1-2 H**

## **VOCAL ENSEMBLE 3-4 H**

## **VOCAL ENSEMBLE 5-6 H**

## **VOCAL ENSEMBLE 7-8 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Advanced Choir or Instructor approval

This course offers advanced experience in choral singing. The choir provides opportunities for personal development through solo work, public performances and the study of a variety of choral literature. This course addresses the music standards at the Distinction level. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. For honors credit, additional performance and leadership opportunities and higher level creative processes are expected.

## **VOCAL SOLO PREPARATION & PERFORMANCE 1-2**

## **VOCAL SOLO PREPARATION & PERFORMANCE 3-4**

## **VOCAL SOLO PREPARATION & PERFORMANCE 5-6**

## **VOCAL SOLO PREPARATION & PERFORMANCE 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Audition and Instructor approval

This course offers experience in vocal solo preparation and performance. The course provides opportunities for personal development through basic music skills, with an emphasis on solo work and public performances. This course offers an opportunity for students to explore careers throughout the music industry. The course addresses the Arizona Music Standards at the intermediate level. Extra time is required for rehearsals and performances.

## **BEGINNING GUITAR 1-2**

## **BEGINNING GUITAR 3-4**

## **BEGINNING GUITAR 5-6**

## **BEGINNING GUITAR 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This beginning course in guitar teaches the fundamentals which enable a student to read music and to play the guitar. No previous experience is necessary. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year.

## **INTERMEDIATE GUITAR 1-2**

## **INTERMEDIATE GUITAR 3-4**

## **INTERMEDIATE GUITAR 5-6**

## **INTERMEDIATE GUITAR 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Guitar 1-2 or Audition

This course for the advanced guitar student develops advanced techniques and skills and increases knowledge and comprehension of music and technical proficiency in playing guitar. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year.



**ADVANCED GUITAR 1-2**

**ADVANCED GUITAR 3-4**

**ADVANCED GUITAR 5-6**

**ADVANCED GUITAR 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

This course is intended for students who are experienced in playing guitar and will be focused on advanced standards in music. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students will occasionally perform in public with the group and in small ensembles. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor.

**GUITAR ENSEMBLE 1-2 H**

**GUITAR ENSEMBLE 3-4 H**

**GUITAR ENSEMBLE 5-6 H**

**GUITAR ENSEMBLE 7-8 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

This course is intended for students who are experienced in playing guitar and will be focused on distinction level standards. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students will occasionally perform in public with the group and in small ensembles. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor.

**MARIACHI 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

This course will focus on the fundamentals and skills of Mariachi music. No previous experience is necessary and instruments will be provided by the school. Students will occasionally perform in public with the group and in small ensembles. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor.

**MARIACHI 3-4**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

This course is intended for students who are experienced in performing in a Mariachi ensemble. Students will occasionally perform in public with the group and in small ensembles. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor.

**MARIACHI 5-6**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

This course is intended for students who are experienced in performing in a Mariachi ensemble at an advanced level of standards. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students will occasionally perform in public with the group and in small ensembles. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor.

**MARIACHI 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

This course is intended for students who are experienced in performing in a Mariachi ensemble at a distinction level of standards. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students will occasionally perform in public with the group and in small ensembles. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor.

**BEGINNING ORCHESTRA 1-2**

**BEGINNING ORCHESTRA 3-4**

**BEGINNING ORCHESTRA 5-6**

**BEGINNING ORCHESTRA 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This beginning course in orchestra teaches the fundamentals of playing an orchestra instrument. No previous experience is necessary, and the school will provide an instrument if necessary. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor.

**INTERMEDIATE ORCHESTRA 1-2**

**INTERMEDIATE ORCHESTRA 3-4**

**INTERMEDIATE ORCHESTRA 5-6**

**INTERMEDIATE ORCHESTRA 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

This course is intended for students who are experienced in playing string, wind or percussion instruments. Students will occasionally perform in public with the group and in small ensembles. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor. The school will provide an instrument if necessary.

**ADVANCED ORCHESTRA 1-2 H**

**ADVANCED ORCHESTRA 3-4 H**

**ADVANCED ORCHESTRA 5-6 H**

**ADVANCED ORCHESTRA 7-8 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

This course is intended for students who are experienced in playing string, wind or percussion instruments. Students will occasionally perform in public with the group and in small ensembles. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor. The school will provide an instrument if necessary. For honors credit, additional performance and leadership opportunities and higher level creative processes are expected.

## **SYMPHONIC ORCHESTRA 1-2 H**

## **SYMPHONIC ORCHESTRA 3-4 H**

## **SYMPHONIC ORCHESTRA 5-6 H**

## **SYMPHONIC ORCHESTRA 7-8 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

This course is intended for students who are experienced in playing string, wind or percussion instruments. Students will occasionally perform in public with the group and in small ensembles. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor. The school will provide an instrument if necessary. For honors credit, additional performance and leadership opportunities and higher level creative processes are expected.

## **PERCUSSION ENSEMBLE 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

This course will focus on the fundamentals and skills of percussive instrumental music. No previous experience is necessary and instruments will be provided by the school. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students will occasionally perform in public with the group and in small ensembles. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor.

## **PERCUSSION ENSEMBLE 3-4**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

This course is intended for students who are experienced in playing percussion instruments. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students will occasionally perform in public with the group and in small ensembles. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor.

## **PERCUSSION ENSEMBLE 5-6**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

This course is intended for students who are experienced in playing percussion instruments and will be focused on advanced standards in music. Extra time is required for rehearsals and performances throughout the year. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Students will occasionally perform in public with the group and in small ensembles. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor.

## **PERCUSSION ENSEMBLE 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

This course is intended for students who are experienced in playing percussion instruments and will be focused on distinction level standards. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students will occasionally perform in public with the group and in small ensembles. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor.

## **PIANO LAB 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Basic musical knowledge and appreciation, or approval of Instructor

This beginning course in piano teaches the fundamentals of playing a keyboard instrument. No previous experience is necessary and the school provides an instrument for use in class.

## **PIANO LAB 3-4**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

The course expands students' piano technique. All music standards are addressed including performance, improvisation, composing and arranging, notation, analysis and evaluation of music, and music history. In addition to the classical repertoire, students read, play and analyze music from various epochs and cultures. The school provides an instrument for use in class.

## **PIANO LAB 5-6**

## **PIANO LAB 5-6 H**

Two-semester course, grade level 11, 12

Prerequisite: Piano 1-2 and 3-4, or Instructor approval

The course continues to expand students' piano technique. All music standards are addressed at a more advanced level, including performance, improvisation, composing and arranging, notation, analysis and evaluation of music, and music history. In addition to the classical repertoire, students read, play and analyze music from various epochs and cultures. For honors credit, additional performance opportunities, higher level music theory and ear training, and research assignments are expected. The school provides an instrument for use in class.

## **PIANO LAB 7-8**

## **PIANO LAB 7-8 H**

Two-semester course, grade level 12

Prerequisite: Piano 1-2, 3-4 and 5-6, or Instructor approval

This course continues to expand students' piano technique. All music standards are addressed at a distinction level, including performance, improvisation, composing and arranging, notation, analysis and evaluation of music, and music history. In addition to the classical repertoire, students read, play and analyze music from various epochs and cultures. For honors credit, additional performance opportunities, higher level music theory and ear training, and a final research project are expected. The school provides an instrument for use in class.

## **AP MUSIC THEORY**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

Does not meet fine arts admission requirement of Arizona universities

AP Music theory is a rigorous course designed for students planning a career in music, as well as for those students who desire more musical enrichment. The course includes study of a wide variety of vocal and instrumental music from standard western tonal repertoires. While the main emphasis is placed on music of the Common Practice period (1600-1750), music of other stylistic periods is also studied. Students will learn the basic rules that govern music composition, gain an understanding of the music forms and become proficient at sight-singing and diction. The culminating event will have the students complete the AP exam.

## **CREATING MUSIC THROUGH TECHNOLOGY 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This course is intended for students with little or no knowledge of music who wish to create music for themselves. Using a software program with a mixture of 1,000+ music "loops," the student is able to create music. The student can also record "real instruments" and "software instruments" directly into the program. Using this software, students are capable of producing music for movies and podcasts as well as creating songs. This course will offer the student the ability to create his/her own "garage band."

**CREATING MUSIC THROUGH TECHNOLOGY 3-4**

Two-semester course, grade level 10, 11, 12

Prerequisite: Creating Music Through Technology 1-2

This course extends students' knowledge and application of skills with music composition through technology. Students who wish to develop their music technology skills to a higher level to be better prepared for college-level and career applications can do so by taking this course. This class will continue to develop students' music creation, synthesis, and analysis skills through higher level music and technology manipulation, research assignments, and self evaluation.

**PERFORMING ARTS INDEPENDENT STUDY 1-2**

Two-semester course, grade level 12

Prerequisite: Two units of Dance, Drama or Music and prior approval of the Principal and the Performing Arts Teacher

This program provides an opportunity for the advanced student, who ranks in the upper 25 percent of his/her class, to investigate and study independently an area of his/her own choosing in Performing Arts. The student is provided with tools of inquiry and research methods and techniques.

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## PHYSICAL EDUCATION

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**GRADUATION REQUIREMENT**

Health Education 1 (.5 credit) is required for graduation.

**HEALTH EDUCATION 1**

One-semester course, grade level 9

Prerequisite: None

Meets PUHSD Graduation Requirement

This course covers a variety of topics including safety education, environment, foods, drugs, exercise, accidents, diseases, immunization, nutrition and body care. This course is a graduation requirement.

**HEALTH / FITNESS 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

Meets PUHSD Graduation Requirement

Health/Fitness is a full-year course that integrates a variety of health concepts, skills, and behaviors to plan for personal and lifelong health and implement fitness-enhancing activities to lead a physically active lifestyle promoting wellness throughout life. Students develop skills that will make them health-literate adults. The fitness component requires the student to be proficient and demonstrate improved physical fitness in all health related fitness skills. Students are required to fully participate in all activities that will improve personal fitness and gain the knowledge and skills to adopt physical activity as a lifelong habit.

**FITNESS & SPORTS 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This course will provide an environment for students to improve their conditioning skills along with learning personal workout guidelines. The settings of the class will be varied to provide a variety of conditioning activities thus giving the student an opportunity to reach a higher level of fitness through guided activities.

**GENERAL PHYSICAL EDUCATION 1-2****9TH GRADE BOYS****9TH GRADE GIRLS****10-12TH GRADE BOYS****10-12TH GRADE GIRLS**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

In this course students experience individual, dual and team sports with emphasis on participation by learning basic and advanced skills and offering specialized physical education activities at the 11th and 12th grade levels. This course may be repeated for credit.

**GYMNASTICS 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: One year General PE or equivalent, may be taken concurrently or with approval of the Instructional Leader

This course is designed for students interested in the basic skills and techniques of apparatus routines and tumbling, including a program of rhythms for creative expression in composition. Students are expected to attain a higher degree of performance at the intermediate and advanced levels.

**INTERSCHOLASTIC ATHLETICS 1-2**

Two-semester course, grade level 10, 11, 12

Prerequisite: Prior participation in high school athletics

This course is designed to improve cardiovascular fitness, muscle strength and endurance. The course is available to students who wish to attain a higher degree of skill level in sports-related activities. The course may be repeated for credit.

**LIFETIME SPORTS 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This course covers definition and skill development in a variety of individual sports with carry-over values for participation during adult life. Emphasis will be on rules, basic skills and participation. Dressing out for the activities is highly recommended, but not mandatory.

**PE OPPORTUNITIES FOR EXCEPTIONAL LEARNERS (PEOPEL) 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This course is designed for students with mental or physical handicaps which limit their participation in regular physical education classes. Activities are modified to meet the student's individual capabilities. Students will be provided a program as individualized as personnel and facilities permit.

**PEOPEL LEADERSHIP TRAINING 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: General PE (with the permission of Instructor and of the Instructional Leader, may be taken concurrently)

This class is for students interested in becoming student aides for students enrolled in the PEOPEL Program. Students learn and use techniques and skills for being successful aides.

**PEOPEL LEADERSHIP 1-2**

Two-semester course, grade level 10, 11, 12

Prerequisite: PEOPEL Leadership Training

This course is for students who have completed PEOPEL Leadership Training 1-2 and now want to experience peer-tutor opportunities in PEOPEL classes. This course may be repeated for credit.

**WEIGHT TRAINING 1-2****BOYS  
GIRLS**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

Safety and weight training techniques are emphasized, using several different types of training apparatus. Students will experience a variety of different physical activities in addition to strength training and are expected to achieve skills at the beginning level. Course may be repeated for credit.

**ADVANCED WEIGHT TRAINING 3-4****BOYS  
GIRLS**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Weight Training 1-2 or Instructor recommendation

Emphasis on safety and weight training techniques is continued, using several different types of training apparatus. Students will experience a variety of different physical activities and are expected to achieve skills at the intermediate and advanced level. Course may be repeated for credit.

**YOGA AND FITNESS 1**

One-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

Yoga and Fitness provides students the opportunity to increase the health related components of fitness (muscular strength, muscular endurance, cardio respiratory endurance, flexibility, and body composition) through a regular yoga practice supplemented by fitness activities.

**PE INDEPENDENT STUDY 1-2**

Two-semester course, grade level 12  
Prerequisite: Prior approval of Principal, PE Instructor and PE Instructional Leader

This course is for students with state, national or world class skills. It enables them to study individually in a course not normally offered in the District. It is not to be a duplication of other available opportunities.

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## READING

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**GRADUATION REQUIREMENT**

Beginning with the graduation class of 2006, students must demonstrate proficiency on the reading and writing standards of the Arizona Standards for Language Arts as measured by the state-mandated AIMS test.

**COLLEGE CRITICAL READING ARGUMENT**

One-semester course, grade level 9, 10, 11, 12  
Placement criteria: English 101 (or English 107) with a "C" or better and a reading placement score of 41 or higher on the ASSET Test or with permission of the instructor

This course offers an emphasis on applying critical inquiry skills to varied and challenging reading materials. Course includes analysis, synthesis, and evaluation through written discourse. Dual enrollment is required for this course.

**READING (CORRECTIVE READING)****LEVEL A  
LEVEL B1  
LEVEL B2  
LEVEL C**

Two-semester course, grade level 9, 10, 11, 12  
Placement criteria: Scoring below the 50th percentile on a standardized reading comprehension test (CTBS, Stanford 9) or by Instructor recommendation. Requires the student be screened with the corrective reading screener.

Reading 1-2 is a highly structured program that emphasizes phonics for struggling readers. The course is designed to teach the Arizona State Standards for Language so students will become critical and lifetime readers. Students will develop skills to become strategic readers in all content areas as well as lifetime readers of various genre of literature.

**READING FUNDAMENTALS 1-2 (READ 180)  
SYSTEM 44**

Two period, two-semester course, grade level 9, 10, 11, 12  
Placement criteria: Scoring below grade level on a standardized reading comprehension test (AIMS) or Instructor recommendation  
Meets requirement for elective credit  
Prerequisite: None

Reading Fundamentals is a two-hour block course designed to teach the Arizona State Standards for Reading (Language Arts). Students will develop fundamental reading skills, apply comprehension strategies, and build vocabulary necessary to become independent readers. The curriculum is based on Scholastic's READ 180 framework. **If students need additional support in phonemic awareness and phonics skills, they will be tested on the Scholastic Phonics Inventory and placed in the System 44 component of the program to learn the sound and letter system.**

**STRATEGIC READING 1-2 (READ 180)  
(GRADES 10-12)****STRATEGIC READING 1 1 HR  
STRATEGIC READING 2 1 HR**

Two-semester course, grade level 10, 11, 12  
Placement criteria: Scoring below grade level on a standardized reading comprehension test (AIMS) or Instructor recommendation  
Meets requirement for elective credit  
Prerequisite: Reading Fundamentals preferred

Strategic Reading is a one-hour course designed for students in grades 10-12 who need additional support in reading instruction that will help them develop reading comprehension strategies needed to meet the Arizona State Standards in Reading (Language Arts). Students will become critical and independent readers in content areas as well as lifetime readers of various genre of literature. The curriculum is based on Scholastic's READ 180 Framework.

**INDEPENDENT READING 1-2**

One or more semesters, grade level 10, 11, 12  
Prerequisite: See Placement Criteria Addendum

This course is designed to train students to help themselves and others develop reading and study skills as they relate to the various content areas. Student receives elective credit, but the course is not included in class ranking.

**INDEPENDENT READING FOR INCOMING 9TH  
GRADERS (SUMMER)**

One-semester course, grade level 9  
Prerequisite: None

This PUHSD Summer School class is limited to entering ninth graders who are already identified as needing the Reading Fundamentals intervention (based on Scholastic's READ 180 Model) during their freshman year. This summer program is designed to provide a "jump-start" to reading improvement by focusing on comprehension skills including fluency and academic vocabulary. Students work in whole group, small group, and independent settings. Teachers provide instruction in "before, during, and after-reading" skills and strategies. Students take the Scholastic Reading Inventory at the beginning and end of the course to measure growth in reading. It is expected that students who are enrolled in this class will make significant progress in reading comprehension and may be able to exit the READ 180 program earlier than predicted.



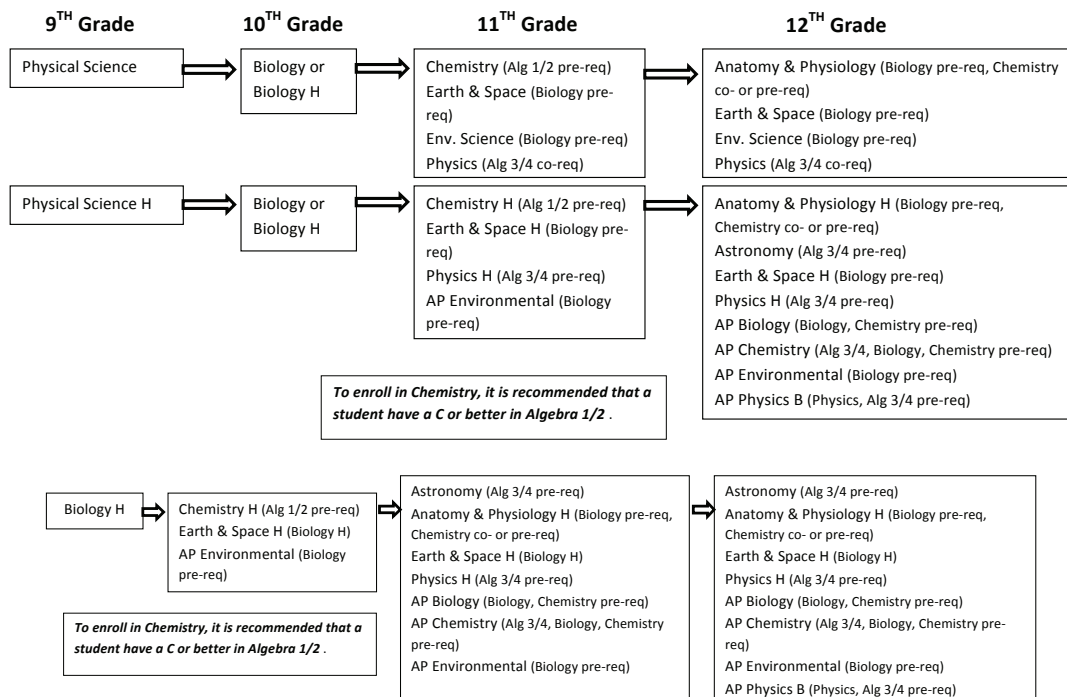
# SCIENCE COURSE SEQUENCE

Students entering the ninth grade in 2009-10 and later must successfully complete at least **three (3)** units of science and one of the credits must be **Biology 1-2** (or equivalent).

Arizona university admission requires a passing grade of C in at least three of the following courses: Physical Science 1-2 (H), **Biology 1-2 (H)**, Chemistry 1-2 (H), Physics 1-2 (H), Anatomy/Physiology 1-2 (H), and Earth and Space Science 1-2 (H). Carl Hayden Marine Science Magnet students can also use Intro to Marine Science 1-2 and Marine Biology 1-2 as laboratory science credits. An advanced level (AP or honors) course in a subject area completed previously can be used for a third unit.

All incoming freshmen are placed in science courses according to their 8th grade teacher recommendations, Math and English placements, or their passing score (min. 70%) on the Biology Entrance Exam (BEE)\*.

An alternate sequence for Special Education students may be determined by the student's Individualized Education Plan team.



Students who fail one or more semesters of a course must complete available credit recovery options (i.e. summer school, evening school). It is recommended that this be done within a year of failing the course.

## SCIENCE

### GRADUATION REQUIREMENT/STATE STANDARDS

#### Class of 2013 and beyond:

Students in graduating classes prior to 2013 should see their counselor for assistance in determining what science credits they need.

Students entering the ninth grade in 2009-2010 and later must successfully complete at least three (3) units of laboratory science in the following manner:

Each unit must consist of both halves of one course (e.g., Biology 1-2, Chemistry 1-2). For this purpose, complementary halves of variations of a course can be matched (e.g., Physics 1 H and Physics 2 ELL could meet this requirement, as would Earth & Space Science 1 and Earth & Space Science 2 Bilingual Spanish). However, this requirement cannot be met by mixing halves of different courses (e.g., neither Physical Science 1 and Earth & Space Science 1 nor Chemistry 1 and Physics 2 would meet this requirement).

One of the units must be Biology 1-2 (including variants).

The additional unit can be any of the following: Physical Science 1-2, Chemistry 1-2, Physics 1-2, Earth & Space Science 1-2, Environmental Science 1-2, Anatomy and Physiology 1-2 (including variants, e.g., H, ELL, BLS, Basic, Practical, etc.).

Students wishing to enroll in an Arizona university must complete the PUHSD requirement of three units of laboratory science, with courses elected from the following: Biology, Chemistry, Earth & Space Science, Physics. Integrated science courses, such as Physical Science or Environmental Science, or advanced courses, such as Anatomy & Physiology, AP Biology, AP Chemistry, AP Environmental Science or AP Physics, may be substituted for one (1) unit of laboratory science to meet the university admissions requirement. Please refer to the science course sequence.

#### Suggested Placement Criteria:

**General**--The following criteria are considered when placing students in science courses: recommendations of previous teachers, previous achievement in science, previous achievement in reading and mathematics, student desire, parental wishes and college/career goals. Students wishing to enroll in an Arizona university must take three years of courses in the following areas: Biology, Chemistry, Earth & Space Science, Physical Science and Physics.

**ANATOMY & PHYSIOLOGY 1-2**

Two-semester course, grade level 10, 11, 12

Prerequisite: Biology 1-2

Concurrent or Prerequisite: Chemistry 1-2

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Anatomy & Physiology 1-2 is a laboratory science course designed for students who have taken biology and wish to pursue a detailed study of human anatomy and physiology. This course provides comprehensive information about the structure and function of the human body. Topics include the body plan, homeostasis and the major systems of the body, e.g., integumentary, skeletal, muscular, immune, circulatory, respiratory, digestive, endocrine, nervous, excretory and reproductive.

**ANATOMY & PHYSIOLOGY 1-2 H**

Two-semester course, grade level 10, 11, 12

Prerequisite: Biology 1-2

Concurrent or Prerequisite: Chemistry 1-2

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Anatomy & Physiology 1-2 H is a laboratory science course designed for students who have taken biology and wish to pursue a more detailed study of human anatomy and physiology. This course provides highly comprehensive information about the structure and function of the human body and is a good foundation for students interested in the medical profession. Topics include the body plan, homeostasis and major systems of the body, e.g., integumentary, skeletal, muscular, immune, circulatory, respiratory, digestive, endocrine, nervous, excretory and reproductive.

**ASTRONOMY 1-2**

Two-semester course, grade level 11, 12

Prerequisite: Algebra 3-4

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Astronomy 1-2 is a laboratory science course for students who wish to investigate the wide variety of objects in the universe and learn how the universe works. Many physics topics such as forces and motion, light and optics, electricity and magnetism and conservation of energy will be studied in the astronomical context of the big bang theory, galaxies and stars, formation of the solar system, planets and their moons, asteroids and comets, and extra solar planets.

**BIOLOGY 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Physical Science or meets placement criteria

Students must have taken Biology 1 to be enrolled in Biology 2.

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Biology 1-2 is a laboratory science course designed to meet the Arizona and national standards for the inquiry process, history and nature of science, science in personal and social perspectives, and life science. Students of Biology 1-2, will engage in scientific inquiry to uncover concepts related to cellular processes, interdependence of organisms and the environmental system, genetics, and the molecular basis of heredity, and the scientific principles and processes involved in biological evolution. Students who previously received credit for Biology 1-2 H may not receive credit for Biology 1-2. Biology 1-2 should be successfully completed by the end of the sophomore year.

**BIOLOGY 1-2 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Physical Science or meets placement criteria

Students must have taken Biology 1 to be enrolled in Biology 2.

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Biology 1-2 H is a laboratory science course designed for students who wish to pursue a more challenging and quantitative approach to biology. This course provides students with opportunities to think like biologists as they use scientific inquiry to study living systems. Students of Biology 1-2 H will explore, in depth, concepts related to cellular processes, interdependence of organisms and the environmental system, genetics and the molecular basis of heredity, and the scientific principles and processes involved in biological evolution. Students who previously received credit for Biology 1-2 may not receive credit for Biology 1-2 H. Biology 1-2 H should be successfully completed by the end of the sophomore year.

**AP BIOLOGY**

Two-semester course, grade level 11, 12

Prerequisite: Biology 1-2 and Chemistry 1-2

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

AP Biology is a college-level laboratory-based science course for academically advanced students who have had an introductory life science course and wish to study biology at a more challenging level. Students may earn college credit and/or advanced placement based on their performance on the Advanced Placement examination in biology. Due to the rigor of the AP program, this course receives honors credit. Students will study principles of living systems at the molecular, cellular and organismic levels of organization. This course provides students with an opportunity to develop a conceptual framework for modern biology emphasizing: science as a process; evolution as the foundation of modern biological thought; and applications of biological knowledge and critical thinking to environmental and social concerns.

**COLLEGE BIOLOGY 3-4 H**

Two-semester course, grade level 11, 12

Prerequisite: Biology 1-2 Honors

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

College Biology 3-4 H is a laboratory science course taught at the college level for academically advanced students who have had an introductory life science course and wish to study biology at a higher level. Students may receive college credit, based on their performance. The topics will include those required by the college of concurrent enrollment and may include areas of life science such as ecology, human biology, genetics, developmental biology, botany, zoology and microbiology. Outside reading along with reports may be assigned.

**CHEMISTRY 1-2**

Two-semester course, grade level 10, 11, 12

Prerequisite: Algebra 1-2; Biology 1-2

Students must pass Chemistry 1 with a D or better to advance to Chemistry 2

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Chemistry 1-2 is a laboratory science course designed to explore matter and composition of the world. The major instructional areas are: identifying consistencies in experimental data, structure of matter as a key to chemical and physical properties, mole concept, and energy changes in matter, conservation of energy, equilibrium systems and stoichiometric relationships. Laboratory work and scientific method are emphasized.

**CHEMISTRY 1-2 H**

Two-semester course, grade level 10, 11, 12

Prerequisite: Algebra 1-2; Biology 1-2

Students must pass Chemistry 1 H with a D or better to advance to Chemistry 2 H

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Chemistry 1-2 H is a laboratory science course designed for students who wish to pursue a more challenging and quantitative approach to chemistry. The student will learn about matter, energy and the composition of the universe. The major instructional areas are: identifying consistencies in experimental data, structure of matter as a key to chemical and physical properties, mole concept, and energy changes in matter, conservation of energy, equilibrium systems and stoichiometric relationships. Laboratory work and the scientific method are emphasized. Research papers and individual laboratory research may be required.

**AP CHEMISTRY**

Two-semester course, grade level 11, 12

Prerequisite: Biology 1-2; Chemistry 1-2; Algebra 3-4

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

AP Chemistry is a college-level laboratory science course for academically advanced students who have had an introductory chemistry course and wish to study the discipline at a more challenging level. Students may earn college credit and/or advanced placement based on their performance on the Advanced Placement examination in chemistry. Due to the rigor of the AP program, this course receives honors credit. This course emphasizes chemical calculations and the mathematical formulation of principles. Students will explore concepts within each of the following areas: structure of matter, states of matter, reactions; descriptive chemistry; and inquiry-based laboratory practices.

**EARTH & SPACE SCIENCE 1-2**

Two-semester course, grade level 10, 11, 12

Prerequisite: Biology 1-2 or Biology 1-2 H

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Earth & Space Science 1-2 is a rigorous laboratory science course designed to meet the Arizona and national standards for the earth sciences, with applications to physical and life sciences. Scientific inquiry, as it applies to the study of the earth and earth systems, is the focus of the course. It is designed for students who have a background in the foundations of physics and chemistry, and who have successfully completed biology. Students will learn about the physical world in which we live and the manner in which the world is studied through critical thinking skills.

**EARTH & SPACE SCIENCE 1-2 H**

Two-semester course, grade level 10, 11, 12

Prerequisite: Biology 1-2 or Biology 1-2 H

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Earth & Space Science 1-2 H is a highly rigorous laboratory science course designed to meet the Arizona and national standards for the earth sciences, with applications to physical and life sciences. Scientific inquiry, as it applies to the study of the earth and earth systems, is the focus of the course. It is designed for students who have a strong background in the foundations of physics and chemistry, and who have successfully completed biology. Students will learn about the physical world in which we live and the manner in which the world is studied through critical thinking skills.

**ENVIRONMENTAL SCIENCE 1-2 5741000-5742000**

Two-semester course, grade level 11, 12

Prerequisite: Biology 1-2

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Environmental Science 1-2 is a laboratory science course designed to explore the interrelationship of humanity on the local and global environment. Emphasis is on helping the student make decisions based on facts about our ability to live in harmony with the environment. This course is activity-oriented and includes such topics as ecological relationships, use and consumption of our natural resources, energy and problems resulting from population growth.

**AP ENVIRONMENTAL SCIENCE**

Two-semester course, grade level 11, 12

Prerequisite: Biology 1-2 is required; a second year of laboratory science is recommended.

Meets PUHSD and Arizona Science Standards graduation requirements

Meets laboratory science admission requirement of Arizona universities

AP Environmental Science is a college-level science course for academically advanced students who wish to pursue advanced study of the environment. Topics to be covered in this course are: scientific analysis, the interdependence of Earth's systems, human population dynamics, renewable and nonrenewable resources, environmental quality, global changes and their consequences, the environment and society and choices for the future. Students will participate in laboratory and field investigations, allowing them to learn about the environment through firsthand observation. Students may earn college credit and/or advanced placement based on their performance on the Advanced Placement Environmental Science exam. Due to the rigor of the AP program, this course receives honors credit.

**PHYSICAL SCIENCE 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None, but see Placement Criteria Addendum

Students must have taken Physical Science 1 to be enrolled in Physical Science 2.

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Physical Science 1-2 is a laboratory science course designed to meet selected national and 2004 revised Arizona standards for the physical sciences, and to meet the science lab requirement for state universities. Coursework includes the study of the basic concepts of chemistry and physics, as well as mathematical applications. This laboratory-centered course involves students in building conceptual and mathematical models that fit within a story-line framework. Using problem-solving strategies, the scientific method, hands-on lab experiences and cooperative learning strategies, students acquire the abilities to do scientific inquiry and gain a knowledge base to support those inquiries. Physical Science 1-2 is a science course intended to provide the foundation for success in future science courses and should be completed by the end of the freshman year.

**PHYSICAL SCIENCE 1-2 H**

Two-semester course, grade level 9, 10, 11, 12  
 Prerequisite: None, but see Placement Criteria Addendum  
 Co-requisite: Algebra 1-2 H

Students must have taken Physical Science 1 to be enrolled in Physical Science 2.  
 Meets PUHSD and Arizona Science Standards graduation requirement  
 Meets laboratory science admission requirement of Arizona universities

Physical Science 1-2 H is a rigorous laboratory science course designed to meet selected national and 2004 revised Arizona standards for the physical sciences, and to meet the science lab requirement for state universities. Coursework includes the study of the basic concepts of chemistry and physics at an accelerated pace, with a focus on mathematical applications. This laboratory-centered course involves students in building conceptual and mathematical models that fit within a story-line framework. Using problem solving strategies, the scientific method, hands-on lab experiences and cooperative learning strategies, students acquire the abilities to do scientific inquiry and gain a knowledge base to support those inquiries. Physical Science 1-2 H is a science course intended to provide the foundation for success in future science courses and should be completed by the end of the freshman year.

**PHYSICS 1-2**

Two-semester course, grade level 11, 12  
 Prerequisite: Biology 1-2  
 Students must pass Physics 1 with a D or better to advance to Physics 2.  
 Concurrent or Prerequisite: Algebra 3-4

Meets PUHSD and Arizona Science Standards graduation requirement  
 Meets laboratory science admission requirement of Arizona universities

Physics 1-2 is a laboratory science course designed for students who may go on to college. Topics include: motion, forces, energy, waves, light, electricity, magnetism, radioactivity, mechanical energy, nuclear physics and alternative energy sources. Major concepts are introduced through laboratory experiences.

**PHYSICS 1-2 H**

Two-semester course, grade level 11, 12  
 Prerequisite: Algebra 3-4  
 Students must pass Physics 1 with a D or better to advance to Physics 2.

Meets PUHSD and Arizona Science Standards graduation requirement  
 Meets laboratory science admission requirement of Arizona universities

Physics 1-2 H is a laboratory science course for students who wish to pursue a more challenging and a more quantitative approach to physics. This course provides a comprehensive survey of energy and how it is studied through science critical thinking skills. Topics covered include: motion, forces, energy, waves, light, electricity, magnetism, radioactivity, mechanical energy, nuclear physics and alternative energy sources. Major concepts are introduced through lab experiences.

**AP PHYSICS B**

Two-semester course, grade level 11, 12  
 Prerequisite: Physics 1-2, Algebra 3-4  
 Meets PUHSD and Arizona Science Standards graduation requirement  
 Meets laboratory science admission requirement of Arizona universities

AP Physics B is a college-level laboratory-based science course for academically advanced students who have had an introductory physics course and wish to study the discipline at a more challenging level. Students may earn college credit and/or advanced placement based on their performance on the Advanced Placement Physics B exam. Due to the rigor of the AP program, this course receives honors credit. This course utilizes guided inquiry and student-centered learning to foster development of critical thinking skills and a conceptual framework for understanding: Newtonian mechanics; fluid mechanics and thermal physics; electricity and magnetism; waves and optics; and atomic and nuclear physics.

**SCIENCE ELECTIVES**

These courses do not fulfill the Science graduation requirements, but will fulfill elective credit.

**SCIENCE ACCELERATION 1 (SUMMER ONLY)**

One-semester course, 4-week summer course, 4 hours per day, grade level 9  
 Prerequisite: Score of 60% or higher on the AQT or GQT or based on 7th and 8th grade AIMS results

Science Acceleration is a rigorous laboratory-based science and mathematics course aligned to the Arizona State Science Standards and intended to guide students to understand physics as the rules of the physical world, and to teach how the equations of physics reveal connections in nature. Coursework includes the study of physics concepts, with a focus on mathematical applications, which are fully integrated into the physics curriculum. Concepts to be explored in this laboratory-centered course, which will involve students in building conceptual and mathematical models, include motion, forces, and energy and energy systems. Using problem solving strategies, the scientific method, hands-on lab experiences and cooperative learning strategies, students will acquire the ability to do scientific inquiry and gain a knowledge base in physics and mathematics to support those inquiries.

**SCIENCE INDEPENDENT STUDY 1-2**

Two-semester course, grade level 11, 12  
 Prerequisite: Prior approval of the Principal, Science Teacher and Department Chairperson and completion of 2 years of science  
 Does not meet PUHSD or Arizona Science Standards graduation requirements  
 Does not meet laboratory science admission requirement of Arizona universities

Science Independent Study 1-2 is designed for the advanced science student who wishes to pursue his/her own research project. It provides the opportunity for the advanced student to investigate and study independently an area of his/her own choosing in the sciences. The student is provided with tools of inquiry and research methods and techniques.

**SCIENCE SEMINAR 1-8 H**

Two-semester course, grade level 9, 10, 11, 12  
 Prerequisite: Teacher approval  
 Does not meet PUHSD or Arizona Science Standards graduation requirements  
 Does not meet laboratory science admission requirement of Arizona universities

Science Seminar is a course designed for students who wish to do independent study in areas of science that interest them. Through this course students may prepare for science competitions. Any appropriate topic can be pursued.



# SOCIAL STUDIES COURSE SEQUENCE

Students must successfully complete World History/Geography, US/Arizona History, Government and Economics.

Students may enroll in Honors or Advanced Placement courses if they score above the 88th percentile rank on the reading portion of a standardized norm-referenced test, are recommended by a teacher, or by choice of the parent/student.

Arizona universities require 2 years/units of Social Studies courses. One year/unit of history (including at least one course in American history) and one year/unit of an additional social science such as geography, government, psychology, anthropology, European or world history, economics, or sociology.

An alternative sequence for Special Education students may be determined by the student's Individualized Education Plan team.

SOCIAL STUDIES COURSE SEQUENCE		
9th grade	Elective options*	
10th grade	World Hist./Geography 1-2 or World Hist./Geography 1-2 H or AP World History	And elective options*
11th grade	U.S./Arizona Hist. 1-2 or U.S./Arizona Hist. 1-2 H or AP U.S. History	And elective options*
12th grade	Economics 1 or Economics 1 H** or AP Macroeconomics AND Government 1 or Government 1 H or AP U.S. Government and Politics	And elective options*

\*Elective credit options: American Cultures 1, American Studies for Newcomers 1, AP Human Geography, Sociology 1, Student Government 1-8, and Social Studies Independent Studies 1-2

\*\*Students who pass Marketing 1-2 and take the Economics CRT during the same school year will meet the Economics graduation requirement.

## SOCIAL STUDIES

### SOCIAL STUDIES GRADUATION REQUIREMENTS

**Suggested Placement Criteria:** Students may enroll in Honors or Advanced Placement courses if they score above the 88th percentile rank on the reading portion of a standardized norm-referenced test, are recommended by a teacher or by choice of the parent/student.

#### ECONOMICS 1

One-semester course, grade level 12  
Prerequisite: None

This course is an introduction to the foundations and methods of economics. Economics is the study of how people choose to use their limited resources to produce, exchange and consume goods and services and how these scarce resources are allocated among competing ends. The course will examine the characteristics of different economic systems, the essential component of private property in a free-market environment, the role of government in the economy of the United States and the effects of international trade and development on our lives. The course is based on the national and Arizona State Social Studies Standards for Economics.

#### ECONOMICS 1 H

One-semester course, grade level 12  
Prerequisite: See Placement Criteria

Encompassing the objectives of the regular Economics course, Economics H is designed for honors students. The course will provide the students with an in-depth analysis of economic systems and will provide students with a fundamental understanding of economic concepts, micro-economics and macroeconomics.

#### AP MACROECONOMICS

One-semester course, grade level 12  
Prerequisite: See Placement Criteria

AP Macroeconomics is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with fundamental economic concepts, micro-economics and macroeconomics. The course prepares students for college-level work and an advanced placement status.

**GOVERNMENT 1**

One-semester course, grade level 12  
Prerequisite: None

This course deals with national and state governments and describes how groups in our country give power to political institutions to make binding decisions for the good of society. The course analyzes civic life, politics and the basic forms of government; what the basic foundations of the American political system constitute; how government established by a constitution embodies the purposes, values and principles of American democracy. America's role in the world with other nations and the matters of world affairs are discussed. The concepts explored in this course will continue to prepare and empower students to make choices as responsible participants in society. The course is based on the Arizona State Social Studies Standards for Civics/Government.

**GOVERNMENT 1 H**

One-semester course, grade level 12  
Prerequisite: See Placement Criteria

Encompassing the objectives of the regular Government course, Government H is for the honor student who wants an in-depth and enriched course. Opportunities will be provided for students to read extensively and to analyze the structure and operation of the national government.

**AP UNITED STATES GOVERNMENT AND POLITICS**

One-semester course, grade level 12  
Prerequisite: See Placement Criteria

AP United States Government and Politics is designed to provide students the opportunity to read extensively and to analyze the structure and operation of the national government. The course prepares students for college-level work and an advanced placement status.

**US / ARIZONA HISTORY 1-2**

Two-semester course, grade level 11  
Prerequisite: None

US/AZ History is the second course in the Social Studies Program. This course is a conceptual look at changing American culture, politics, environment and economy from the 1860s to the present day. The course's intent is to help students better understand the themes of history which shaped and continue to impact our lives. The course also challenges the knowledge gained from the World History course and applies that background to America's perspective of the 20th Century. The concepts explored in this course will continue to prepare and empower students to make choices as responsible participants in society. The course is based on the AZ State Social Studies Standards for US/AZ History.

**US / ARIZONA HISTORY 1-2 H**

Two-semester course, grade level 11, 12  
Prerequisite: See Placement Criteria

US/Arizona History 1-2 H provides the honors student with an opportunity for an in-depth investigation of the factors and forces which have shaped America. Research is expected of students enrolled in the course.

**AP UNITED STATES HISTORY**

Two-semester course, grade level 11  
Prerequisite: See Placement Criteria

AP United States History is designed to provide students with the analytical skills and in-depth knowledge necessary to deal critically with the problems and materials in US/Arizona History. The course prepares students for college-level work and an advanced placement status.

**WORLD HISTORY / GEOGRAPHY 1-2**

Two-semester course, grade level 10  
Prerequisite: None

World History/Geography is the first course in the Social Studies Program. This course is designed to provide students with the skills and knowledge to understand the major concepts, characteristics, events and people of modern history (1500 - present). The course will include an overview of Western Civilization. Economic and political developments, geographic concepts, belief systems and cultural contributions are integrated into the curriculum. The course is based on the Arizona State Social Studies Standards for World History.

**WORLD HISTORY / GEOGRAPHY 1-2 H**

Two-semester course, grade level 10  
Prerequisite: See Placement Criteria

World History/Geography 1-2 H provides the honor student with an opportunity to do an in-depth study of the economic, social, political and diplomatic aspects of world civilizations from the 1500s to the present.

**AP WORLD HISTORY**

Two-semester course, grade level 10, 11, 12  
Prerequisite: See Placement Criteria

AP World History is designed to provide students with the analytical skills and in-depth knowledge necessary to deal critically with the problems and materials in World History. The course will prepare qualified students who wish to complete studies in secondary school equivalent to an introductory college course in world history. The purpose of the course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies.

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**SOCIAL STUDIES ELECTIVES**

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**AMERICAN CULTURES 1**

One-semester course, grade level 10, 11, 12  
Prerequisite: None

American Cultures is a one-semester elective course. Students will study the positive impact of cultural diversity of the various culture groups in our society and the need for understanding, acceptance and respect for each other. Guest lectures and presentations for various minority groups will be used to study art, literature, music and traditions of four focus groups: Hispanic-American, African-American, Native-American and Asian-American.

**AMERICAN STUDIES FOR NEWCOMERS 1**

One-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

American Studies for Newcomers 1 is designed for newly arrived English Language Learners who are enrolled in Beginning ELL. The curriculum is aligned with the Arizona Social Studies Standards and the PUHSD Beginning ELL curriculum. This course is an introduction to the history, government and geography of our local community, the state of Arizona and the United States. American Studies teachers integrate language and content so that English is developed simultaneously with new content knowledge. A certified ELL Social Studies or ELL English teacher teaches American Studies. Students receive one-half elective credit upon successful completion of this one semester course.

**AP HUMAN GEOGRAPHY**

Two-semester course, grade level 9,10, 11, 12  
Prerequisite: See Placement Criteria

This course will introduce students to the systematic patterns and processes that have shaped human understanding, use, and alteration of the earth's surface. Students will prepare for the Advanced Placement examination in human geography.

**SOCIOLOGY 1**

One-semester course, grade level 11, 12  
Prerequisite: None

Sociology introduces the student to the science of human behavior. The student is made aware that human behavior is a product of the natural social and cultural living environments. Human groups and their interaction are explored.

**STUDENT GOVERNMENT 1-8**

Four-semester course, grade level 9, 10, 11, 12  
Prerequisite: Student Government member

Students on the executive committee of the student government organization meet every day with the teacher in a regular class. The class encourages students to participate in school operation by planning activities, conducting programs, coordinating and evaluating student activities. Included in the course are some of the fundamentals of group dynamics and practical parliamentary procedure.

**SOCIAL STUDIES INDEPENDENT STUDY 1-2**

Two-semester course, grade level 12  
Prerequisite: Prior approval of the Principal, Social Studies Instructor and Social Studies Instructional Leader

Independent Study provides the opportunity for the advanced student to investigate and study independently an area of interest in the Social Sciences. The student is provided with tools of inquiry and research methods and techniques. District procedures for independent study must be followed and the student is encouraged to consult the Counseling Department concerning the guidelines.

**MATH PRINCIPLES 1-2 PRACTICAL**

Two-semester course, grade level 9, 10, 11, 12

This course is one of two required Practical Math courses. This course has no prerequisite and is for students who meet criteria for the Practical program. It is designed to prepare ninth and tenth grade students for technical schools and careers. Topics of study include number sense and operations, data analysis, probability, measurement, geometry, and logic with fractions and percents, and measurement.

**BIOLOGY PRINCIPLES 1-2**

Two-semester course, grade level 9, 10, 11,12

This class is a required course for Practical/SCD students. Biology Principles is a lab class designed to meet selected Arizona Science Standards. Coursework includes the study of the scientific method to uncover basic concepts of life science, living organisms, the human body, and ecological systems. Students will engage in problem-solving strategies, the scientific method, hands-on lab experiences and cooperative learning strategies. This course should be completed by the end of the sophomore year.

**PHYSICAL SCIENCE APPLICATIONS 1-2**

Two-semester course, grade level 9, 10, 11, 12

This class is a required course for Practical/SCD students. It is a lab class designed to meet selected 2004 revised Arizona Standards for the physical sciences. Coursework includes the study of basic concepts of earth science, weather, and physics. Students will engage in problem-solving strategies, the scientific method, hands-on lab experiences, and cooperative learning strategies. This course should be completed by the end of the sophomore year.

**ADULT SURVIVAL 1-2 PRACTICAL**

Two-semester course, grade level 9

This class is a required course for Practical/SCD students which are aligned to the AIMS A LEVEL II Assessment. This class is a portfolio driven class. Portfolio requirements for this course focus on domestic living and the recreation/leisure domain.

**ADULT SURVIVAL 3-4 PRACTICAL**

Two-semester course, grade level 10

This class is a required course for Practical/SCD students which are aligned to the AIMS A LEVEL II Assessment. This class is a portfolio driven class. Portfolio requirements for this course focus on community domain and the school/vocational domain. Students in this class will be assessed on the AIMS A LEVEL II for knowledge and performance.

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**SPECIAL EDUCATION PROGRAMS**

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The following courses are available only to students who have been placed in an exceptional student program. Placement in any class shall be specified on the student's Individual Educational Plan (IEP).

**ENGLISH APPLICATIONS 1-2 PRACTICAL**

Two-semester course, grade level 9, 10, 11, 12

This course is one of three required Practical English courses. This course has no prerequisite and is for students who meet criteria for the Practical program. Special Education students with significant cognitive disabilities develop skills in summarizing, personal narrative, persuasive, and expository writing. Short literature studies and non-fiction stories develop reading process skills.

**ENGLISH ESSENTIALS 1-2 PRACTICAL**

Two-semester course, grade level 9, 10, 11, 12

This course is one of three required Practical English courses. This course has no prerequisite and is for students who meet criteria for the Practical program. Students will participate in writing and literature activities that emphasize problem solving and solutions. Through activities such as letter writing, essays and literature studies with a cause and effect focus, students develop skills in processing various scenarios and situations from beginning to conclusion.

**ENGLISH PRINCIPLES 1-2 PRACTICAL**

Two-semester course, grade level 9, 10, 11, or 12

This course is one of three required Practical English courses. This course has no prerequisite and is for students who meet criteria for the Practical program. Student skills are developed in the areas of writing multi-paragraph stories and poetry. Students will study literature that focuses on the elements of poetry, literature and comprehending informational text.

**MATH APPLICATIONS 1-2 PRACTICAL**

Two-semester course, grade level 9, 10, 11

This course is one of two required Practical Math courses. This course has no prerequisite and is for students who meet criteria for the Practical program. It is designed to prepare ninth and tenth grade students for technical schools and careers. Topics of study include number sense and operations, data analysis, probability and logic with whole numbers and decimals.

**US / ARIZONA HISTORY ESSENTIALS 1-2**

Two-semester course, grade level 10, 11, 12

This class is a required course for Practical/SCD students that looks at changing American culture, politics, environment, and economy from the 1800s to the present day. The course's intent is to help students better understand the themes of history which shaped and continue to impact our lives. The concepts explored in this course will continue to prepare and empower students to make choices as responsible participants in society. The course is based on the Arizona State Social Studies Standards for US/AZ History.

**JOB PREPARATION ESSENTIALS 1**

Two-semester course, grade level 11

Job Preparation Essentials is designed to prepare the student for the world of work. This course develops students' communication and critical thinking skills particular to the work environment. Job Prep Essentials will provide SPED students opportunities to practice employment-related behaviors expected by employers. Suggested pre-requisites for this course are Adult Survival 1-4.

**HEALTH ESSENTIALS 1**

One-semester course, grade level 10, 11, 12

This course covers a variety of topics including safety education, environment, foods, drugs, exercise, accidents, diseases, immunization, nutrition and body care. This course is a graduation requirement.

**CBT ADULT LIVING**

Two-semester course, grade level 9, 10, 11, 12

The goal of the community-based training program is to prepare students with moderate, severe or multiple handicaps to function as independently and productively as possible in their current, future, domestic, school, vocational, recreational and community environments. This course is designed to promote independence and literacy by practicing healthy behaviors, following directions, planning for meals (shopping and budgeting), exploring vocational interests and preferences, developing job skills, and accessing community resources. The course can be taken multiple times as the student moves toward proficiency in these areas.

**CBT HEALTHY LIVING**

Two-semester course, grade level 9, 10, 11, 12

The goal of the community-based training program is to prepare students with moderate, severe or multiple handicaps to function as independently and productively as possible in their current, future, domestic, school, vocational, recreational and community environments. This course is designed to promote independence and literacy by focusing on life science, the human body and systems, nutrition, recreation/leisure skills and social/emotional development. The course can be taken multiple times as the student moves toward proficiency in these areas.

**CBT FUNCTIONAL LIFE SKILLS**

Two-semester course, grade level 9, 10, 11, 12

The goal of the community-based training program is to prepare students with moderate, severe or multiple handicaps to function as independently and productively as possible in their current, future, domestic, school, vocational, recreational and community environments. This course is designed to promote independence and literacy by focusing on grooming, hygiene, personal interactions/relationships, problem solving and personal management (schedules, goal setting, etc...). The course can be taken multiple times as the student moves toward proficiency in these areas.

**CBT FUNCTIONAL LANGUAGE ARTS**

Two-semester course, grade level 9, 10, 11, 12

The goal of the community-based training program is to prepare students with moderate, severe or multiple handicaps to function as independently and productively as possible in their current, future, domestic, school, vocational, recreational and community environments. This course is designed to promote independence and literacy by focusing on reading, writing, understanding informational text, sequencing and comprehension. The course can be taken multiple times as the student moves toward proficiency in these areas.

**CBT FUNCTIONAL MATH SKILLS**

Two-semester course, grade level 9, 10, 11, 12

The goal of the community-based training program is to prepare students with moderate, severe or multiple handicaps to function as independently and productively as possible in their current, future, domestic, school, vocational, recreational and community environments. This course is designed to promote independence and literacy by focusing on counting, money skills, problem-solving and time. The course can be taken multiple times as the student moves toward proficiency in these areas.

**JOB SURVIVAL SKILLS 1-2**

Two-semester course, grade level 11, 12

Job Survival Skills will provide preparation for work experiences for exceptional students who are deficient in job related skills. The content of this course will focus on specific worker skills and reading and mathematics skills related to job acquisition and maintenance and independent living.

**LIFE SKILLS JOB PREPARATION 1-4**

Four-semester course, grade level 11, 12

Students will be enrolled in this course when they have demonstrated their ability to be successful in a job situation. Students will be given credit based on hours and performance on the job.

**LEARNING STRATEGIES 1-2**

Two-semester course, grade level 9, 10, 11, 12

This course has no prerequisite and is for students who are enrolled in general education classes but not Basic, Practical, or Community Skills classes. Through direct instruction and mastery learning, students learn a variety of reading, writing, math and memory strategies to apply towards tasks, assignments, and tests in content classes. Activities will also include transition from school to work, discussion of appropriate behavior or any other area appropriate to a particular student's needs. This course may be repeated for credit.

**S.U.C.C.E.S.S. SEMINAR 1-2**

Students understanding concepts  
Connecting education and social skills  
Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: IEP Team Decision

The S.U.C.C.E.S.S. Seminar class is designed for students placed in Special Education programs who have exhibited inappropriate behavior in a majority of classes. The course teaches students to recognize appropriate and inappropriate behavior as it relates to others. Students will (a) gain personal insights and discover how inappropriate behavior affects their lives and others, (b) gain better control over their lives and become more responsible for their actions, (c) learn to communicate more effectively, (d) become better decision makers, and (e) gain a better self-image. The course may be repeated for credit.

**HEARING LABORATORY 1-2**

Two-semester course, grade level 9, 10, 11, 12

This course is designed for the hearing handicapped student and offers academic, tutorial or therapeutic assistance. The student develops lip reading skills, small-group communication and acceptable communication in large classroom situations. This course may be repeated for credit.

**VISION LABORATORY 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This course is designed for the student whose visual loss impedes academic or social progress in a regular classroom. Various equipment is used to aid in learning skills and there is utilization of adaptive materials in braille, large print, or recorded form. This course may be repeated for credit.



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# VISUAL ART

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## FINE ARTS GRADUATION REQUIREMENT:

One unit (two semesters) of any Art course will satisfy the PUHSD graduation requirement of 1.0 credit in Fine Arts. Instructor approval is required if enrolling in two or more visual arts courses in the same semester.

### ART 1-2

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

Art 1-2 is an exploratory course covering most art mediums which include: drawing, painting, graphic arts and three dimensional work. A major emphasis will be on the use of the elements and principles of design as they relate to various problems. This is the first art course in which an art student usually enrolls.

### ART 3-4

Two-semester course, grade level 10, 11, 12  
Prerequisite: Art 1-2 or Instructor approval

Continuing to expand their knowledge of art mediums and elements of design, students will complete projects which involve research in art history, exploratory design, experimental sculpture or painting and new materials and techniques. The course will culminate in a slide portfolio of the students' work.

### ART HISTORY 1-2

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This is the study of art history from all periods. Students will describe, analyze, interpret and make judgments about visual images that may be important to the development of a student's ability to critically analyze and problem solve. Students will make aesthetic judgments through comparison and contrasting characteristics of art works made in different time periods and cultures.

### AP ART HISTORY

Two-semester course, grade level 10, 11, 12  
Prerequisite: Art History 1-2 or Instructor approval

This is a course designed to reflect the academic rigors of a college level introduction to art history course. Students enrolled in this class will study the history of architecture, sculpture, painting and other art forms of world cultures. Human creativity from pre-historical times to the present day will be examined throughout the school year. *Students will be required to take the AP Art History Exam at the end of the school year.*

### AP STUDIO ART 1-2

#### AP STUDIO ART: 2-D DESIGN 1-2

#### AP STUDIO ART: 3-D DESIGN 1-2

#### AP STUDIO ART: DRAWING 1-2

Two-semester course, grade level 10, 11, 12  
Prerequisite: Instructor approval

This course will provide the advanced art student an opportunity to develop, complete, and submit an AP Studio portfolio of her/his work. This portfolio may allow the student to receive college art credit or advanced placement if he/she meets the requirements of the National College Level Examination Program. Students have the option of submitting one of three different portfolios: Drawing, 2-D Design, or 3-D Design.

### AP STUDIO ART 3-4

#### AP STUDIO ART: 2-D DESIGN 3-4

#### AP STUDIO ART: 3-D DESIGN 3-4

#### AP STUDIO ART: DRAWING 3-4

Two-semester course, grade level 11, 12  
Prerequisite: AP Studio Art 1-2

This course will provide the advanced art student an opportunity to develop, complete and submit an AP Studio portfolio of his/her work. This portfolio may allow the student to receive college art credit for advanced placement if he/she meets the requirements of the National College Level Examination Program. Students have the option of submitting one of three different portfolios: Drawing, 2-D Design, or 3-D Design.

### CERAMICS 1-2

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

Ceramics 1-2 provides students with an opportunity to explore and experiment with three-dimensional design in clay. Students will develop an awareness of functional and nonfunctional form, a knowledge of ceramic techniques and an aesthetic understanding of design and craftsmanship. Students wishing to enroll in Ceramics 2 must secure instructor approval.

### CERAMICS 3-4

Two-semester course, grade level 10, 11, 12  
Prerequisite: Ceramics 1-2 or Instructor approval

This course provides the opportunity for students to become familiar with sources and characteristics of clay; preparation and usage of glazes; purposes, types and problems of firing; and aesthetic and functional design in three-dimensional items. The course includes opportunities for students to develop a variety of ceramic forms by hand-building methods as well as throwing on the potter's wheel.

### DESIGN / ADVERTISING 1-2

Two-semester course, grade level 10, 11, 12  
Prerequisite: Art 1-2 recommended

Students will explore the principles and elements of design and incorporate them into functional art projects. Students may specialize in Advertising Design; e.g., poster and package design, publication layout, lettering and various graphic techniques or Fashion Design; e.g., fashion illustration, history of fashion, layout principles and dress design. This course is recommended for all students interested in a career in the commercial art fields.

### DIGITAL PHOTOGRAPHY IMAGING 1-2

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This course explores the world through the camera lens and computer imaging software. Learning to synthesize, manipulate, and apply the computer software is a major component of this course. The course curriculum is designed around the elements of art and principles of design as they relate to various problems in digital photography. Students wishing to enroll in Digital Photography Imaging 2 must secure instructor approval.

### DIGITAL PHOTOGRAPHY IMAGING 3-4

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: Digital Imaging 1-2 or Instructor Approval

Digital Imaging 3-4 builds on the foundations of Digital Imaging 1-2. This course allows more freedom to continue building on projects of personal expression for art exhibits, contests and senior portfolio shows.

**DRAWING / PAINTING 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This course provides students an experience in a wide range of drawing techniques and tools, a variety of painting media and color theory techniques employed by professional artists which may include the use of computers. It is recommended for all students interested in developing or improving their drawing and painting skills.

**DRAWING / PAINTING 3-4**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Drawing/Painting 1-2 or Instructor approval

This is the second year course which will give students who have interests and talents the opportunity to further develop their abilities in the use of the tools and materials of the professional artist, which may include the use of computers. Students will be encouraged to develop self-motivated studio practices and disciplines.

**TRADITIONAL PHOTOGRAPHY 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This course is designed to provide the student with basic information and skills necessary to operate a camera and do basic processing and printing which may include digital imaging. Students will explore past and present photographic concepts and become aware of the design principles and elements involved in the art of photography.

**TRADITIONAL PHOTOGRAPHY 3-4**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Traditional Photography 1-2 or Instructor approval

This second year photography course is designed to provide the student with more advanced skills and introduce him/her to specialized photographic techniques, issues in photography, portraiture, medium format camera techniques and alternatives to the black and white process which may also include digital imaging.

**ART INDEPENDENT STUDY 1-2**

- ART IND ST: ART 1-2
- ART IND ST: CERAMICS 1-2
- ART IND ST: DIGITAL PHOTOGRAPHY 1-2
- ART IND ST: DRAWING AND PAINTING 1-2
- ART IND ST: TRADITIONAL PHOTO 1-2

Two-semester course, grade level 11, 12  
Prerequisite: At least two credits in Art and prior approval of the Art Instructor and Department Instructional Leader

This is an elective independent research class for advanced students having at least 2 years of high school art. Students will be involved in independent research projects in areas they have a special interest and ability.

**ART INDEPENDENT STUDY 3-4**

- ART IND ST: ART 3-4
- ART IND ST: CERAMICS 3-4
- ART IND ST: DIGITAL PHOTOGRAPHY 3-4
- ART IND ST: DRAWING AND PAINTING 3-4
- ART IND ST: TRADITIONAL PHOTOGRAPHY 3-4

Two-semester course, grade level 12  
Prerequisite: Three years of Art and prior approval of the Art Instructor and Department Instructional Leader

This is an elective independent research class for twelfth grade students having at least 3 years of high school art. Students will be involved in independent research projects in areas they have a special interest and ability focusing on historical, exploratory, and experimental aspects of working with new materials and techniques.

**WORLD LANGUAGES**

**UNIVERSITY ADMISSIONS REQUIREMENT**

Two credits in the same language will satisfy the university admissions requirement for foreign language.

**AMERICAN SIGN LANGUAGE 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This course fulfills the foreign language requirement for Arizona universities. This course is designed to help the non-signer and/or beginning signer develop basic signing skills and knowledge in American Sign Language (ASL), Deaf Culture and Deaf people. Emphasis will be on skill demonstration and comprehension as well as knowledge of the deaf community and development of cultural awareness necessary for maximal communication and interaction. The student will begin with visual readiness activities and then progress through a group of target grammatical items taught within meaningful context that stress the use of questions, statements, commands, and conversational rules such as attention getting and turn taking. Basic fingerspelling will also be stressed.

**AMERICAN SIGN LANGUAGE 1-2 H**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: Instructor approval

This is an accelerated honors course that is designed to help the non-signer and/or beginning signer develop basic signing skills and knowledge in American Sign Language (ASL), Deaf Culture and Deaf people. Emphasis will be on skill demonstration and comprehension as well as knowledge of the deaf community and development of cultural awareness necessary for maximal communication and interaction. The student will begin with visual readiness activities and then progress through a group of target grammatical items taught within meaningful context that stress the use of questions, statements, commands, and conversational rules such as attention getting and turn taking. Basic fingerspelling will also be stressed.

**AMERICAN SIGN LANGUAGE 3-4**

Two-semester course, grade level 10, 11, 12  
Prerequisite: American Sign Language 1-2

This course is designed to continue the skills developed in American Sign Language (ASL) Level 1-2. It will continue to expand the emphasis on ASL grammar, syntax, spatial referencing, and vocabulary development. Dialogues, short stories, narratives, and conversations will focus on Deaf culture and descriptions of people and surroundings. A more detailed exploration into the history of deafness and the history of Deaf education will occur. Employment opportunities within deaf and hearing impaired related fields of work will be researched. Students will further explore the dynamics of the Deaf Community through interaction with the Deaf students at MTHS and the Deaf Community at large.

**AMERICAN SIGN LANGUAGE 3-4 H**

Two-semester course, grade level 10, 11, 12  
Prerequisite: American Sign Language 1-2 H or Instructor approval

This is an accelerated honors course designed to continue the skills developed in American Sign Language (ASL) Level 1-2. It will continue to expand the emphasis on ASL grammar, syntax, spatial referencing, and vocabulary development. Dialogues, short stories, narratives, and conversations will focus on Deaf culture and descriptions of people and surroundings. A more detailed exploration into the history of deafness and the history of Deaf education will occur. Employment opportunities within deaf and hearing impaired related fields of work will be researched. Students will further explore the dynamics of the Deaf Community through interaction with the Deaf students at MTHS and the Deaf Community at large.

**AMERICAN SIGN LANGUAGE 5-6 H**

Two-semester course, grade level 11, 12  
Prerequisite: American Sign Language 3-4

This is an accelerated honors course designed to continue the skills developed in American Sign Language (ASL) Level 3-4. It will continue to expand the emphasis on ASL grammar, syntax, spatial referencing, and vocabulary development. Dialogues, short stories, narratives, and conversations will focus on Deaf culture and descriptions of people and surroundings. A more detailed exploration into the history of deafness and the history of Deaf education will occur. Employment opportunities within deaf and hearing impaired related fields of work will be researched. Students will further explore the dynamics of the Deaf Community through interaction with the Deaf students at MTHS and the Deaf Community at large.

**AMERICAN SIGN LANGUAGE 7-8 H**

Two-semester course, grade level 12  
Prerequisite: Successful completion of American Sign Language 5-6 H with a grade of B or higher or by recommendation of the teacher.

This is an accelerated honors course designed to continue the skills developed in American Sign Language (ASL) Level 5-6 Honors. ASL grammar, syntax, spatial referencing, and vocabulary development will be emphasized at an advanced level. Dialogues, short stories, narratives, and conversations will focus on Deaf culture, real life situations and occurrences. ASL education opportunities beyond the High School level will be researched as well as employment opportunities within deaf and hearing impaired related fields of work. Students will continue to apply their ASL and explore the Deaf Community through interaction with the Deaf students at their High School and the Deaf Community at large.

**DINÉ (NAVAJO) 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

Diné is a two-semester course which receives world languages credit and fulfills one year of the university admissions requirement for foreign language. Communication skills (listening, speaking, reading and writing) are taught using interactive strategies with emphasis on authentic language use. There is an emphasis on Diné cultural heritage and literature.

**DINÉ (NAVAJO) 1-2 H**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: Honors Placement or recommendation of Instructor

Diné 1-2 H is the first year of language within the honors program. This course is designed to give students exceptional proficiency in reading, writing, speaking and understanding the Diné language.

**DINÉ (NAVAJO) 3-4**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Diné 1-2

Diné 3-4, the continuation of Diné 1-2 is a two-semester course for world languages credit and fulfills one year university admissions requirement for foreign language. Communication skills (listening, speaking, and reading) are taught using interactive strategies with emphasis on authentic language use. There is an emphasis on the Diné cultural heritage and literature.

**DINÉ (NAVAJO) 3-4 H**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Successful completion of Diné 1-2 H or recommendation of Instructor

Diné 3-4 H is the second year of language within the honors program. This course is designed to build on the proficiency developed in Diné 1-2 H. Diné 3-4 H will place emphasis on developing exceptional proficiency in oral expression and knowledge of the Diné culture.

**FRENCH 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

French 1-2 is designed to give students basic proficiency in reading, writing, speaking and understanding the French language. Audiovisual techniques will be used. Emphasis is on development of oral proficiency and knowledge of Francophone cultures.

**FRENCH 1-2 H**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: Honors Placement or recommendation of Instructor

French 1-2 H is the first year of language within the honors program. This course is designed to give students exceptional proficiency in reading, writing, speaking and understanding the French language. Audiovisual techniques will be used. Emphasis is on development of oral proficiency and knowledge of the French culture. In addition, French 1-2 H will provide students with the necessary preparation to succeed in the French language AP exam.

**FRENCH 3-4**

Two-semester course, grade level 10, 11, 12  
Prerequisite: French 1-2

French 3-4, the second year French course, builds on proficiency developed in French 1-2. Emphasis is on development of oral proficiency and knowledge of Francophone cultures.

**FRENCH 3-4 H**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Successful completion of French 1-2 H or recommendation of Instructor

French 3-4 H is the second year of language within the honors program. This course is designed to build on the proficiency developed in 1-2 H. French 3-4 H will place emphasis on developing exceptional proficiency in oral expression and knowledge of the French culture. In addition, French 3-4 H will provide students with the necessary preparation to succeed in the French language AP exam.

**FRENCH 5-6 H**

Two-semester course, grade level 11, 12  
Prerequisite: Successful completion of French 3-4 H or recommendation of Instructor

French 5-6 H, the third year French honors course, will be mainly conducted in French but never to a point where a student's understanding of the basic ideas is impaired. Emphasis is on development of oral proficiency and knowledge of Francophone cultures.

**FRENCH 7-8 H**

Two-semester course, grade level 12  
Prerequisite: Successful completion of French 5-6 H or recommendation of Instructor

French 7-8 H, the fourth year French honors course, will be principally conducted in French. Plays, novels and poetry are presented for study and enjoyment. Emphasis is on development of oral proficiency and knowledge of Francophone cultures.

**FRENCH 9-10 H**

Two-semester course, grade level 12  
Prerequisite: Successful completion of French 7-8 H or recommendation of Instructor

French 9-10 H is an advanced level of study. It is designed to be taught entirely in French and will sharpen the four skills of listening, speaking, reading and writing to the point that the student will feel comfortable using French in any situation.

**AP FRENCH LANGUAGE 1-2**

Two-semester course, grade level 10, 11, 12  
Prerequisite: French 5-6 H

AP French Language will prepare students for the AP exam. Students will develop advanced listening, speaking, reading and writing skills following the advanced placement curriculum.

**LATIN 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

Latin 1-2 aims to teach forms and principles of elementary Latin and prepare students for advanced study. The study of Latin helps students develop a vocabulary which can be used in professional vocations as well as understand the derivation of words. Emphasis is placed on history and cultures of ancient Rome.

## SPANISH PLACEMENT AND COURSE SEQUENCE

Initial placement in Spanish courses is based on the essential question: "Can you have a conversation in Spanish for five minutes?"

If a student answers yes to the essential question, the 7 Minute Spanish Reading Placement test is required. The 7 Minute Spanish Reading Placement test will be administered by the Testing Coordinator at every campus in collaboration with the World Languages Department.

	INITIAL PLACEMENT RECOMMENDATION BASED ON ESSENTIAL QUESTION "CAN YOU HAVE A CONVERSATION IN SPANISH FOR FIVE MINUTES?"	
	No Spanish Placement Test Required	Yes 7 Minute Spanish Reading Placement Test Required
<b>Year 1</b>	Spanish 1-2 or 1-2 Honors	SSS LA 1-2, SSS 1-2 or SSS 1-2 Honors 7 Minute Spanish Reading Test Score: 0-9 Regular Spanish 3-4 10-13 SSS 1-2/H 14 + SSS 3-4/H
<b>Year 2</b>	Spanish 3-4 or 3-4 Honors	SSS 3-4, SSS 3-4 Honors or AP Spanish Language
<b>Year 3</b>	Spanish 5-6 Honors	SSS 5-6 Honors
<b>Year 4</b>	Spanish 7-8 Honors or Spanish AP Language 1-2	SSS 7-8 Honors or AP Spanish Literature 1-2
<b>Year 5</b>	Spanish 9-10 Honors or AP Spanish Literature	World Languages Independent Study 1-2

Abbreviation key: SSS = Spanish for Spanish Speakers  
SSS LA = Spanish for Spanish Speakers Language Arts  
AP = Advanced Placement

**SPANISH 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

Spanish 1-2 emphasizes oral proficiency. Emphasis is placed on the fundamentals of speaking and understanding basic Spanish. Reading about and discussing contemporary life in the Spanish-speaking world is a part of each lesson.

**SPANISH 1-2 H**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: Honors Placement or recommendation of Instructor

Spanish 1-2 H is the first year of language within the honors program. This course is designed to give students exceptional proficiency in speaking and understanding the Spanish language. Reading and discussing contemporary life in the Spanish-speaking world is an integral part of each lesson. In addition, Spanish 1-2 H will provide students with the necessary preparation to succeed in the Spanish language AP exam.

**SPANISH 3-4**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Spanish 1-2

Spanish 3-4, the second year Spanish course, is a continuation of Spanish 1-2. Multimedia materials are used to bring to the student the cultural aspects of the Spanish-speaking world. Students develop oral proficiency as well as reading and writing skills.

**SPANISH 3-4 H**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Spanish 1-2 H or recommendation of Instructor

Spanish 3-4 H is the second year of language within the honors program. This course builds on the second year of language within the honors program. Spanish 3-4 H will place emphasis on developing exceptional proficiency in oral expression and knowledge of the Spanish culture. In addition, Spanish 3-4 H will provide students with the necessary preparation to succeed in the Spanish language AP exam.

**SPANISH 5-6 H**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Spanish 3-4 H

Spanish 5-6 H, the third year Spanish honors course, gives students extensive experience in speaking Spanish. It introduces the student to Hispanic Literature and develops the use of the Spanish idiom as spoken by the native speaker.

**SPANISH 7-8 H**

Two-semester course, grade level 11, 12  
Prerequisite: Spanish 5-6 H

Spanish 7-8 H, the fourth year of honors Spanish, is an in-depth program integrating reading, writing, speaking and listening in Spanish. The materials are adapted to the ability and interest of the students. Emphasis is on development of oral proficiency and knowledge of Hispanic cultures.



**SPANISH 9-10 H**

Two-semester course, grade level 12  
Prerequisite: Spanish 7-8 H

Spanish 9-10 H is a very advanced level of study. It is taught entirely in Spanish and will sharpen the four skills of listening, speaking, reading and writing to the point that the student will feel comfortable using Spanish in any situation.

**AP SPANISH LANGUAGE 1-2**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Spanish 5-6 H or SSS 1-2

AP Spanish Language will prepare students for the AP exam. Students will develop advanced listening, speaking, reading and writing skills following the advanced placement curriculum.

**AP SPANISH LITERATURE 1-2**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Spanish 5-6 H or Spanish for Spanish Speakers 3-4 or recommendation of Instructor

The AP Spanish Literature course is designed for the third year, highly motivated student, and will be taught on the same level as a university course; therefore, it is conducted entirely in Spanish. Students sign a pledge to use Spanish exclusively in the class. In addition, students are asked to perfect their grammar and syntax including accentuation as well as to incorporate more elevated and sophisticated vocabulary into both the spoken and written language.

**SPANISH FOR SPANISH SPEAKERS 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: Spanish speaker or 7 Minute Spanish Reading Placement Test Scores.

Spanish for Spanish Speakers 1-2 is the first year of language study for Spanish-speaking students. This is a year-long program designed to help speakers of Spanish who have received all or most of their schooling in English to access the Spanish for Spanish Speakers curriculum. The course builds literacy skills through purposeful and relevant language activities and assists students in transferring their reading and writing skills from English to Spanish. Students will engage in the writing process, free reading, journal writing and other activities which complement the instruction they receive in English courses.

**SPANISH FOR SPANISH SPEAKERS 1-2 H**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: Spanish speaker or 7 Minute Spanish Reading Placement Test Scores.

Spanish for Spanish Speakers 1-2 Honors is the first year of language study for Spanish-speaking students. Emphasis will be placed on initial advanced placement language and literature elements in order to prepare students for the AP exams in addition to the Spanish for Spanish Speakers 1-2 curriculum. This is a year-long program designed to help speakers of Spanish who have received all or most of their schooling in English to access the Spanish for Spanish Speakers curriculum.

**SPANISH FOR SPANISH SPEAKERS 3-4**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: Spanish speaker, Spanish for Spanish Speakers 1-2, or 7 Minute Spanish Reading Placement Test Scores.

Spanish for Spanish Speakers 3-4 is the second year of language study for Spanish-speaking students. This course reinforces literacy concepts and skills learned in the first-year course and provides Spanish-speaking students opportunities to improve their listening, speaking, reading and writing skills. Course content will include literature-based units combined with grammar, reading and writing activities for personal and academic purposes.

**SPANISH FOR SPANISH SPEAKERS 3-4 H**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: Spanish speaker, Spanish Speakers 1-2, or Spanish Speakers 1-2H  
Students may start at this level only with appropriate 7 Minute Spanish Reading Placement Test Scores.

Emphasis will be placed on advanced placement language and literature elements in order to prepare students for the AP exams. This course reinforces literacy concepts and skills learned in the first year course and provides Spanish-speaking students opportunities to improve their listening, speaking, reading and writing skills. Course content will include literature-based units combined with grammar, reading and writing activities for personal and academic purposes.

**SPANISH FOR SPANISH SPEAKERS 5-6 H**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Spanish for Spanish Speakers 3-4 or 3-4 H

This is the third year of language study for Spanish-speaking students. This course provides Spanish-speaking students more exposure to authentic Spanish and Latin American literature. Students will have opportunities to improve their listening, speaking, reading, and writing skills. Course content will include literature-based units combined with grammar, reading, and writing activities for personal and academic purposes.

**SPANISH FOR SPANISH SPEAKERS 7-8 H**

Two-semester course, grade level 11, 12  
Prerequisite: Spanish speaker and Spanish for Spanish Speakers 5-6 H

This is the fourth year of language study for Spanish-speaking students. This course provides Spanish-speaking students intense study in Spanish and Latin American literature. Students will have opportunities to improve their listening, speaking, reading and writing skills. Course content will include literature-based units combined with grammar, reading and writing activities for personal and academic purposes.

**SPANISH FOR SPANISH SPEAKERS LANGUAGE ARTS 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: 7 Minute Spanish Reading Placement Test Score

Spanish for Spanish Speakers Language Arts is the first year of language study for Spanish-speaking immigrant students with less than two years in the United States who have limited or no literacy skills in any language. The curriculum is designed to develop and improve Spanish literacy skills in order to facilitate English acquisition. Students are generally concurrently enrolled in Beginning ELL English.

**WORLD LANGUAGES****INDEPENDENT STUDY 1-2**

Two-semester course, grade level 12  
Prerequisite: Prior approval of the Principal, World Languages Instructor and Instructional Leader

Independent study provides the opportunity for advanced students to investigate and study independently an area of their own choosing in world languages. The student is provided with the tools of inquiry and research methods and techniques. District procedures for independent study must be followed and the student must consult with the Counseling Department concerning registration procedures.

## GENERAL CAREER AND TECHNICAL EDUCATION PROGRAMS

### CAREER AND TECHNICAL EDUCATION (CTE) GRADUATION REQUIREMENT

Career and Technical Education programs offer two and three year programs of study with a coherent sequence of courses. With the completion of a full program, students may be eligible for career-related certificates/licenses and community college credit.

One unit (two 18 week semesters or four 6 week semesters at Metro Tech only) of any Career and Technical Education program may satisfy the PUHSD Career and Technical Education graduation requirement unless otherwise noted.

## STUDENT OPPORTUNITIES

Student receives elective credit, but the course is not included in class ranking.

### INTRODUCTION TO HIGH SCHOOL 1

Three weeks, 60 hours, 1/2 credit

This three-week, 60-hour course is designed as a summer orientation to high school to prepare students to be successful in courses which are required for graduation. It focuses on goals and objectives to promote student achievement in the core academic areas of reading, writing and mathematics. It is open to incoming ninth graders who will receive 1/2 general elective credit for successful completion of the course.

### STUDENT ASSISTANT 1-4

Four-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

Opportunities are provided for a limited number of selected students to receive practical work experience on the school campus and to receive credit for this work. A maximum of two units of elective credit may be earned toward graduation; however, no more than 1/2 unit of credit may be earned during one semester.

### STUDENT TUTORING (TUTEE) 1-4

One or more semesters, grade level 9, 10, 11, 12  
Prerequisite: Instructor approval

This course provides student-student help to develop reading, writing, mathematics and study skills.

### STUDENT TUTORING (TUTOR) 1-4

One or more semesters, grade level 9 (2nd semester only), 10, 11, 12  
Prerequisite: Teacher approval

This course is designed to train students to help themselves and others develop reading, writing, mathematics and study skills.

## GENERAL ELECTIVES

### ACADEMIC DECATHLON 1-2 H

Two-semester course, grade level 9, 10, 11, 12

This course is for students who are participating in the Academic Decathlon program.

### ADVANCEMENT VIA INDIVIDUAL DETERMINATION (AVID)

Students participating in the AVID program learn strategies to ensure success in college-prep course work. Students work individually, as well as in tutor-led collaborative groups. Cornell note taking, outlining, writing, speaking, reading and test-taking strategies are stressed. In addition, the course includes college motivational activities. The AVID curriculum focuses on Writing, Inquiry, Collaboration and Reading (WICR) through the AVID High School Libraries in both teacher and tutor-led activities.

Prerequisite: Instructor approval

ELL Prerequisite: Students must qualify as an English Language Learner as measured by the Arizona English Language Learner Assessment (AZELLA). Instructor approval is also needed.

### AVID 1-2

Two-semester course, grade level 9

The ninth grade AVID course is an elective class for freshmen students who are college bound.

### AVID 3-4

Two-semester course, grade level 10

The tenth grade AVID course is an elective class for sophomore students who are college bound.

### AVID 5-6

Two-semester course, grade level 11

The eleventh grade AVID course is an elective class for junior students who are college bound. Because eleventh grade students will be exposed to at least three Advanced Placement courses/tests, the course will emphasize Study Groups, their dynamics and how effective study groups work.

### AVID 7-8

Two-semester course, grade level 12

In the senior year, the AVID course is a continuation of the curriculum of the junior year; however the emphasis is on applying to colleges and universities. Students will also focus on completing and competing for the many scholarship opportunities available.

### ENRICHMENT SEMINAR 1

One-semester course, grade level 9, 10, 11, 12

This interdisciplinary course provides reinforcement of reading, writing and mathematics skills used in content classes. Students receive guidance for improving study skills as well as tutoring in all basic skills.

**MATHEMATICS ENGINEERING SCIENCE****ACHIEVEMENT (MESA) 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Participation in the four-year program

The course does not count towards fulfilling the graduation requirement in mathematics or science.

This is an interdisciplinary course in mathematics and science designed for students who are participating in the four-year pre-college program.

**HUMANITIES 1-2**

Two-semester course, grade level 11, 12

Humanities is the study of the best of all that has been written, spoken and created. The course investigates all areas of human experience: religion, philosophy and thought, tradition, morals, history and the best of creativity (painting, sculpture, architecture and music).

**HUMANITIES 1-2 H**

Two-semester course, grade level 11, 12

Humanities 1-2 H offers an opportunity for the honors student to do an in-depth study of the areas of human experience: religion, philosophy and thought, tradition, morals, history and the best of creativity (painting, sculpture, architecture and music).

**PEER LEADERSHIP 1-2**

Two-semester course, grade level 10, 11, 12

Prerequisite: Permission of Instructor

The Peer Leadership Course provides opportunities for young adults to increase their leadership skills. Areas addressed in this course include leadership skills, communication skills, thinking skills, conflict management skills, coping skills, healthy relationship skills, teamwork and cooperation. The first semester focuses on skill development and the second semester provides opportunities for students to use the skills they have developed. Students may participate in leadership projects on campus or do outreach in the elementary schools or community.

**AP PSYCHOLOGY 1-2**

Two-semester course, grade level 10, 11, 12

Prerequisite: None

This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within Psychology. They also learn about the ethics and methods psychologists use in their science and practice.

**SEMINAR FOR GIFTED STUDENTS 1-8 H**

Eight-semester course, grade level 9, 10, 11, 12

**Criteria for Placement:** A student qualifies for placement in the Honors Seminar if s/he scores two standard deviations above the norm on a State designated test OR if s/he demonstrates unique or special talent(s). Evaluation is based on letters of recommendation, interview, audition, portfolio, etc., in the performing and/or visual arts.

Seminar for Honors Students is designed to provide a series of opportunities to allow gifted and talented students to further independent studies in already existing disciplines. These opportunities allow pursuit across interdisciplinary lines and/or in greater depth in existing disciplines and/or in slightly different formats than the existing formats allow. Written papers, performances and visually demonstrable projects result from investigation which focuses on one or a combination of these disciplines.

The Seminar covers a series of experiences including, but not limited to, whole class studies, participation in group discussion, research projects, guest speaker presentations, internships, field trips, development of leadership skills, career and vocational exploration, counseling and dissemination of college and scholarship information.

Community resources and the use of school facilities will be involved to assist the student to explore his/her academic and creative potential in order that gifted/talented students have an opportunity to reach their expectancy level for a total educational experience.

Successful completion of this course will fulfill graduation requirements for a Humanities course. May be repeated for additional credit.

# CAMPUS COURSE OFFERINGS



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The following courses are offered only at the specific campuses as identified. All courses may not be offered each semester. For more detailed information on these courses or other programs available on the campus, please consult your counselor or contact the high school at one of the numbers indicated on the campus page.



# ALHAMBRA

## High School

3839 West Camelback Road  
Phoenix, Arizona 85019  
(602) 764-6022 • [www.AlhambraHS.org](http://www.AlhambraHS.org)

ALHAMBRA



Welcome to Lion country! Alhambra offers Honors, AP and college credit (dual enrollment) courses as well as competitive sports, music, dance, drama and JROTC. Being a part of the Medical Magnet means a chance to prepare to become a Certified Nursing Assistant (CNA), athletic trainer or therapist as well as take courses for other medical professions while in high school. Special business programs help prepare students for jobs in Sports and Entertainment Marketing, Accounting or Computer Applications. The 4-year Business AVID (Advancement via Individual Determination) program give "Lions" a way to get ready-to-use job skills as well as the extra instruction and tutoring for college.

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## CENTER FOR MEDICAL AND HEALTH STUDIES

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### PROGRAM EMPHASIS:

The Center for Medical and Health Studies at Alhambra High School is designed for students interested in preparing for careers in medical or health fields. There are three major strands: Sports Medicine, Medical Professions and Medical Technology. Students enroll in "Introduction to Medical Arts" their first year and then choose a strand for their remaining three years. Sports Medicine students work with Alhambra sports teams in the treatment and prevention of sports injuries. We work with local health systems in a close partnership to provide opportunities for our students to observe medical professionals at work in various health facilities.

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## PHYSICAL EDUCATION

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### SPORTS MEDICINE 1-2

Two-semester course, grade level 10, 11, 12  
Prerequisite: Introduction to Medical Arts or Biology

Sports Medicine is a course that covers the wide spectrum of athletic training, including the prevention, recognition, care and treatment of athletic injuries. The student will learn first aid techniques, cardiopulmonary resuscitation (CPR) and medical terminology, as well as management of specific sports injuries. The course is designed for those students who are interested in careers in athletic training and other allied health careers and related occupations.

### SPORTS MEDICINE 3-4

Two-semester course, grade level 10, 11, 12  
Prerequisite: Sports Medicine 1-2

Sports Medicine 3-4 allows the students to refine, apply and add to their skills and knowledge regarding injury prevention and management. Rehabilitation theories and techniques are introduced as students learn to set up and administer athletic injury rehabilitation programs on state of the art machines and equipment. The advanced academic challenge in the athletic training subject area will further prepare the student for internship experiences, both in school and in the private sector.

### SPORTS MEDICINE LAB 1-2

Two-semester course, grade level 10, 11, 12  
Prerequisite: Must be concurrently enrolled in or have completed Sports Medicine 1-2

This laboratory setting familiarizes students with the techniques and equipment used by athletic trainers. Students use hands-on techniques in taping, fundamentals of preparation for athletic endeavors and organizational skills. Experience with athletes, under the supervision of the lab instructor and/or the athletic trainer prepares the student for the Team Association Lab. Students are expected to work in the training room to fulfill the requirements of the lab.

### SPORTS MEDICINE LAB 3-4

Two-semester course, grade level 11, 12  
Prerequisite: Sports Medicine 1-2; concurrently enrolled in or have completed Sports Medicine 3-4

This laboratory setting gives the student advanced techniques of athletic training. The administration of first aid, as well as the practices associated with rehabilitation of injuries are some of the hands-on techniques developed in this class. Students will also devise therapeutic programs, under the supervision of the instructor and/or athletic trainer, to aid in the return of injured athletes to their chosen sport.

### SPORTS MEDICINE PRACTICUM 1

One-semester course, grade level 10, 11, 12  
Prerequisite: Concurrently enrolled in or have completed Sports Medicine Lab 3-4

This is an extended laboratory setting providing the student with the opportunity to be involved with one or more high school athletic teams, practicing the techniques learned in Sports Medicine Lab 1 or 2. Time spent with athletes, under the supervision of the instructor and/or the athletic trainer, in preparation for and during practices, as well as the time spent at competitive events, comprise the course requirements. Students will be expected to assist the team with the materials required to prevent and treat injuries. This laboratory requires extensive time requirements in order to fulfill the needs of the particular sport or sports the student wishes to associate with.

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## SCIENCE

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### INTRODUCTION TO MEDICAL ARTS 1-2

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This is the introductory course in the Center for Medical and Health Studies Magnet program at Alhambra High School. The course provides students with the basics of anatomy, physiology and health that are essential in preparation for a future career in a medical or health-related field. Students are exposed to a variety of medical and health careers through our partnership with Samaritan Health Systems. The course focuses on reading and on oral and written communication skills necessary for success in the future. Students who complete both semesters of this course will meet the District requirement for Health. This is required of students in all three strands.

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## WORLD LANGUAGES

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### SPANISH FOR THE MEDICAL ARTS 3-4

Two-semester course, grade level 10, 11, 12  
Prerequisite: Successful completion of 1st year Spanish

Spanish 3-4 for the Medical Arts is a continuation of Spanish 1-2, with an emphasis on vocabulary used in health and medical fields, as well as anatomical terms. Students continue learning the grammar and vocabulary traditionally taught in the 2nd year with additional role-playing of situations involving medical settings. This course is designed for students preparing for a medical or health career who will use these communication skills in a bilingual setting.

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## MAGNET GENERAL ELECTIVES

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### APPLIED PSYCHOLOGY 1

One-semester course, grade level 11, 12  
Prerequisite: Introduction to Medical Arts 1-2

This is a course designed for the upper-class student who is interested in studying psychology and its related components: physiology, behavior, sensation, perception, memory, learning, cognition, motivation, personality, emotion, human development, stress and adjustment, abnormal behavior and types of therapies. Students who complete this course with an A, B or C and register with Phoenix College may earn concurrent college credit for PSY 101.

### MEDICAL ARTS SEMINAR 1

One-semester course, grade level 11, 12  
Prerequisites: Introduction to Medical Arts 1-2, Biology 1-2

This course provides students with hands-on opportunities to observe medical and health professionals in their work settings. Students are assigned to various medical rotations in the Samaritan hospitals as part of their classroom experience. Guest speakers and Samaritan employees work with the individual students, helping them gain valuable insight into the world of medical and health professions.

### MEDICAL RESEARCH 1

One-semester course, grade level 11, 12  
Prerequisite: Introduction to Medical Arts 1-2

This is a course designed for upper-class students who are interested in medical or health careers. Students will be learning non-laboratory research techniques using various sources of information, including, but not limited to, books, articles, CD-ROM databases, on-line computer searches, journals and magazines. Students will read a survey of literature in a medical or health field and will summarize materials and will write comprehensive reports. Students will select an area of interest and will complete field observations at a medical facility, then conduct an independent research project with final presentation of the project being made to the class and to a professional panel.

### TRENDS & ISSUES IN MEDICINE 1

One-semester course, grade level 11, 12  
Prerequisite: Introduction to Medical Arts 1-2, Biology 1-2

This course is designed to help the student become aware of how current trends and issues in health affect every facet of life. Issues such as life and death, ethics, morals and current medical research will be investigated and discussed. Students will study such units as eugenics, gene-splicing, in-vitro fertilization, genetic disorders, organ transplantation, etc. and other current events as they relate to values conflict, decision-making and medical progress. The student will have the opportunity to express his personal opinion as related to these controversial areas.

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## CAREER AND TECHNICAL EDUCATION

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### HEALTH CAREERS 1-2: NURSING ASSISTANT

Two-semester course, grade level 11  
Prerequisite: Passed English 1, 2, 3; Biology 1; Algebra 1

This course is for students who want to prepare for employment in the health care industry, specifically Nursing Services, while gaining valuable information to be successful in any health career field. Students master nursing assistant health care core competencies covering the following areas: anatomy, physiology and associated pathology, medical terminology, oral and written communication, health care delivery systems, employability, legal and ethical responsibilities, safety and teamwork. Students are introduced to a variety of health care careers including nursing assistant, medical assistant, physical therapist, EKG technician, clinical laboratory technician, and more. Activities include job shadowing in clinical settings. Students will have an opportunity to participate with Health Occupations Students of America (HOSA), a national and state career and technical student organization.

Students may receive a waiver for Health after passing six consecutive six-week sessions.

### HEALTH CAREERS 3-4: NURSING ASSISTANT

Offered only at the beginning of the first 18-week semester each year, grade level 12  
Prerequisite: Passed English 1, 2, 3; Biology 1; Algebra 1; Health Careers 1-2

This course prepares students for employment in the health care industry as Nursing Assistants. The program is approved by the Arizona State Consortium of Nursing Assistants and students completing the program may obtain a state certificate. Students gain valuable leadership and employment skills by participating in Health Occupations Students of America (HOSA), a career and technical student organization. Dual enrollment with Gateway Community College is available.

Students may receive two elective lab science credits for passing six consecutive six-week sessions. If this option is selected, only one credit will count for Career and Technical Education.

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## INDUSTRIAL TECHNOLOGY EDUCATION

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### COMPUTER / INFORMATION TECHNOLOGY 1-2

Two-semester course, grade level 10, 11, 12  
Prerequisite: Exploring Technology 1-2 recommended

This course prepares students for entry-level jobs in one of the fastest growing and most dynamic industries in America today! Students will learn introductory job skills in the areas of Technical Support Specialist, Help Desk Technician, Network Specialist, Information Systems Architect, Cabling Technician, Website Designer and Website Administrator. Major units of instruction include computer hardware architecture, repair, servicing, network topologies, and types of cabling and website development.

# BIOSCIENCE

## High School

512 East Pierce Street  
Phoenix, Arizona 85004  
(602) 764-5600 • [www.BioscienceHS.org](http://www.BioscienceHS.org)



Bioscience High School offers a full, integrated curriculum with an emphasis on science, technology, engineering, and mathematics. Students participate in innovative learning environments that include team-teaching, use of technology, and student-centered learning. Instructors design lessons with collaborative efforts, and integration across multiple disciplines is a common theme found in every course offered. Bioscience High School develops specific upperclassmen pathway courses that are tailored to student interests, some of which include: anatomy and physiology, epidemiology, biotechnology, engineering, and forensics. In addition, strong humanities, arts, and fitness curricula are offered to promote well-rounded learning experiences for students.



## BIOSCIENCE EXPERIENCE

### MISSION

Bioscience High School is to prepare tomorrow's scientists, engineers, and medical professionals by providing students of the Phoenix Union High School District with a unique science education through intensive collaboration with the academic and scientific communities in downtown Phoenix.

### GOALS

To develop students' scientific literacy and understanding of connections among bodies of knowledge, resulting in achievement that far exceeds the state standard in science.

To prepare students for post-secondary education and for leadership in science careers.

To increase the number of traditionally under-represented groups of students who pursue higher education, particularly in math and science.

## MATHEMATICS

### ADVANCED GEOMETRY WITH PRE-CALCULUS 1-2 H

Two-semester course, grade level 10, 11, 12  
Prerequisite: Passing grade in Algebra 3-4 H or equivalent  
Meets advanced math admission requirements of Arizona universities

Advanced Geometry with Pre-Calculus 1-2 H is a one-year, in-depth study of the properties of trigonometry, analytical trigonometry, vectors, complex numbers, exponential functions, analytical geometry, polar and parametric equations, series and sequences, and the underpinnings of calculus. Topics are addressed from a geometric perspective. Students utilize computer software programs, graphing calculators and personalized products to study scientific applications. This course is intended to prepare students for Calculus.

### CALCULUS I 1-2 H

Two-semester course, grade level 11, 12  
Prerequisite: Pre-Calculus 1-2 H  
Meets mathematics admission requirements of Arizona universities

Calculus I 1-2 H follows the curriculum of the community college Analytic Geometry & Calculus I. Depending on the required test scores, students may earn one semester (5 credit hours) of concurrent community college credit. Topics include limits, continuity, the fundamental principles and formulas for differential and integral calculus along with their applications to geometry, physics and economics, the mean value theorems and the fundamental theorem of calculus. Depending on individual test scores, students may earn dual or advanced placement college credit for this course.

### CALCULUS II 1-2 H

Two-semester course, grade level 11, 12  
Prerequisite: Analytical Geometry & Calculus 1-2 AP or Calculus I 1-2 H  
Meets mathematics admission requirements of Arizona universities

Calculus II 1-2 H follows the curriculum of the community college Analytic Geometry & Calculus II. Depending on the required test scores or prerequisite course, students may earn one semester (5 credit hours) of concurrent community college credit. As a continuation of Analytical Geometry & Calculus I, topics include work on the elementary transcendental functions, techniques of integration, vector functions, and infinite series along with applications to science and economics. Depending on individual test scores, students may earn dual or advanced placement college credit for this course.

### ELEMENTS OF STATISTICS 1-2 H

Two-semester course, grade level 10, 11, 12  
Prerequisite: Passing grade in Algebra 3-4 H or equivalent

Elements of Statistics 1-2 H introduces students to the basic concepts of statistics, including data descriptions, estimation and hypothesis tests. Students learn to organize, display and analyze data and to explore the elements of probability. This course is an effective preparation for students interested in the fields of social sciences, health sciences, business, engineering, and mathematics. This course can be taken for dual-enrollment.

## SCIENCE & ENGINEERING

### BIOINFORMATICS 1-2 H

Two-semester course, grade level 12  
Prerequisite: Three years of lab science or Instructor approval

The DNA sequence of the human genome is largely complete. The challenge now lies in learning how to make efficient use of genomic resources. This course will cover web-based tools and techniques for locating and using a wide variety of genomic information. This course will provide an introduction and overview to commonly used bioinformatics tools and resources along with hands-on practice. Participants will learn how to use databases containing sequence, clinical, and structural information.

### FORENSIC SCIENCE 1-2 H

Two-semester course, grade level 11, 12  
Prerequisite: Three years of lab science or Instructor approval

Forensic Science 1-2 H is designed for students who are entering the forensic science pathway at Bioscience High School. This lab-intensive course allows students to pursue an in-depth study of forensic science as a tool for collecting evidence and crime scene analysis. Areas of study and analysis will include: physical evidence, properties of matter and the analysis of glass, drugs, forensic toxicology, the microscope, forensic serology, DNA, trace evidence (hair, fibers, metals, paint and soil), fire investigation, investigation of explosions, fingerprints, ballistics, forensic anthropology, casts and impressions, document examination, and computer forensics.

### INTRODUCTION TO BIOTECHNOLOGY 1-2

Two-semester course, grade level 11, 12  
Prerequisite: Biology 1-2, Chemistry 1-2, Algebra 1-2 H and Algebra 3-4 H

This is a laboratory-based course integrating the fundamental concepts of the life and physical sciences with the technical skills needed for post-secondary education and to work in a modern laboratory. The course focuses on basic lab methods, critical thinking, and communication skills currently used in the biotechnology industry. Students will learn the foundation of the scientific method, basic lab safety and lab documentation while acquiring skills in the maintenance and calibration of basic lab equipment, calculation and preparation of lab solutions, basic bacterial and phage cell growth and sterile techniques. Principles of measurements and separation utilized in the laboratory, including but not limited to, pH measurement, spectrophotometry, centrifugation and electrophoresis will be introduced. In addition, issues related specifically to the biotechnology industry, such as understanding the product development process, ethical, legal and social concerns will be addressed.

### INTRODUCTION TO ENGINEERING DESIGN 1-2 H

Two-semester course, grade level 11, 12  
Prerequisite: Three years of lab science, one of which must be Physics 1-2 H or Physical Science 1-2 H

Engineering Design 1-2 H is designed for students who are interested in pursuing the engineering pathway at Bioscience High School. Students will apply their knowledge of physics, mathematics and elements of design to solve problems. This course allows students to use sophisticated 3-dimensional modeling software to improve existing products, invent new ones, and communicate the details of the products to others.

**INTRODUCTION TO EPIDEMIOLOGY 1-2 H**

Two-semester course, grade level 11, 12  
Prerequisite: Two years of lab science

Introduction to Epidemiology 1-2 H will challenge students to gather, analyze, and interpret data to determine the prevalence, causes, and treatments of diseases. This course focuses on disease-related public health issues facing mothers and their children, adolescents, and those who are aging. Students will also explore the impacts of genetics, the environment, and pathogens on disease. Students will gain deductive reasoning and creative problem-solving skills for use in further study in the medical field and will showcase their learning through the use of projects, discussion, modeling, laboratory investigations, independent research projects, and case studies.

**THE PHYSICS OF ENGINEERING 1-2 H**

Two-semester course, grade level 11, 12  
Prerequisite: Three years of lab science, one of which must be Physics 1-2 H or Physical Science 1-2 H

The Physics of Engineering 1-2 H course is offered to junior and senior students on the engineering pathway at Bioscience High School. The course will introduce the basics of quantitative physics concepts (i.e. electricity, magnetism, thermodynamics, and waves) not addressed during the introductory freshman physics course. The course will incorporate engineering fundamentals such as strands of applied engineering, design strategies, problem solving, sustainable engineering methods, and engineering ethics. This course will align with the overall mission and principles of Bioscience High School, and prepare students to take a senior, project-based engineering course.

**THE PHYSICS OF ENGINEERING 3-4 H**

Two-semester course, grade level 12  
Prerequisite: Physics of Engineering 1-2 H or Instructor approval

This course fulfills the second year of the engineering pathway for Bioscience High School. The Physics of Engineering 3-4 H course is offered to senior students on this engineering pathway. The course will introduce the advanced quantitative physics concepts (i.e. optics, nuclear, relativity and modern physics). It will incorporate engineering fundamentals such as strands of applied engineering, design strategies, problem solving, sustainable engineering methods, and engineering ethics. This course will align with the overall mission and principles of Bioscience High School. Students will engage in a year-long project embodying physics and engineering principles.

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**HUMANITIES**

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**BIOETHICS 1-2 H**

Two-semester course, grade level 11, 12  
Prerequisite: Two years of lab science and two years of English or Instructor approval

Bioethics 1-2 H challenges students to think critically about contemporary ethics in the fields of science and technology. Students will explore philosophical principles of ethical theories and how they shape decision making of current and future policy. Additionally, the course examines the responsibilities placed on institutions involved in scientific exploration and innovation. Multidisciplinary projects will showcase student understanding of the themes addressed within class discussions and independent research.

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**INTERNSHIP**

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**BIOSCIENCE INTERNSHIP AND RESEARCH EXPERIENCE 1-2 H**

Two-semester course, grade level 12  
Prerequisite: Three years of lab science and 3 years of English or Instructor approval

The Bioscience Internship and Research course is offered at the senior level for students who are ready to observe and participate with professionals working in the medical, engineering, and other fields related to science, technology and mathematics. This is the capstone course for the Bioscience Experience, and it is required for students to receive a Bioscience High School diploma. Students will explore an extensive list of career choices. The program of study includes: (1) Classroom instruction which emphasizes assignments and projects that include but not be limited to the following topics: leadership qualities, work ethic, collaboration, interpersonal skills, personal care, attitude, organization, prioritizing, job-related stress, working under pressure in a fast-paced, deadline-oriented environment, multi-tasking, efficiency in the workforce, and communication skills; (2) industry-based work experience in a work environment that closely matches students' interests and abilities; (3) independent research project on a topic of interest to the student.

# BOSTROM

## High School

3535 North 27th Avenue  
Phoenix, Arizona 85015  
(602) 764-1700 • [www.BostromHS.org](http://www.BostromHS.org)

BOSTROM



Since 1976, Bostrom has provided opportunities for students to find success in a small school environment that focuses on academic achievement in reading, writing, and math as well as helping students develop appropriate social and interpersonal skills. Bostrom is structured and disciplined, with a concentrated focus on academic success. We have outstanding staff members who care, and who hold each student (and parent) accountable for his/her education. Bostrom is available to 10th, 11th and 12th graders who reside in the Phoenix Union High School District. Instruction is delivered in six-week sessions in which students concentrate on two block classes at a time. Regular and Special Education students may take classes in Math, English, Social Studies, Science and some elective classes. Students that are eligible may take Career and Technical Education classes at Metro Tech, or attend Evening School. Students are selected for admission based on an application and interview process and parents must attend a mandatory orientation.

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## GENERAL INFORMATION

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### MISSION

Preparing Every Student for Success in College, Career and Life.

### VISION

Bostrom Alternative High School is dedicated to preparing students to be productive, informed, and responsible citizens. We provide parents with the tools to assist their student toward achieving success. High academic standards, a strict code of conduct, and a respect for diversity prepare our students for success in college, career and life. Bostrom provides a safe learning community that actively involves students, parents, staff, and community members.

### STUDENTS WHO ARE SUSPENDED:

Bostrom offers educational opportunities to selected students who have been suspended long-term from their home school, but not expelled. Parents may contact the school for an appointment if the student's home school has offered the option.

### REGISTRATION PROCESS:

Students who are interested in attending Bostrom should call (602) 764-1708 for information on enrolling.

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## GENERAL ELECTIVES

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### PROGRAMMING WITH SCRATCH

Two-semester course, grade level 10, 11, 12

Prerequisite: Students must have math skills sufficient to understand basic algebra, basic computer applications such as keyboard, typing, browser and file-based computer applications such as digital camera, desktop publisher, or an mp3 player

This course is a two-semester web-based class designed for those students with little computer experience and for those who use a computer every day. They will learn the fundamental aspects of computer programming and media manipulation through creating interactive stories, animations and games using "Scratch." Scratch is a graphical programming environment that introduces the primary aspects of software in a visual setting. It allows students to control the actions and interactions of different media using a snap-it-together approach to programming.



# TREVOR BROWNE

## High School

7402 West Catalina Drive  
Phoenix, Arizona 85033  
(602) 764-8500 • [www.TrevorBrowneHS.org](http://www.TrevorBrowneHS.org)



Trevor G. Browne High School, in cooperation with our families and community, is a comprehensive high school which offers many different types of courses as diverse as Art, Math, English, Science, JROTC, Social Studies, Business, and Auto Tech. Honors and Advanced Placement (AP) courses are also available. Besides the regular school day calendar, we also offer courses in Evening School Opportunities (ESO) and Communities in Schools (CIS) for our non-traditional students. Because of its rich traditions, TGB has seen many second and third generation students graduate, as well as graduates that return as faculty members.

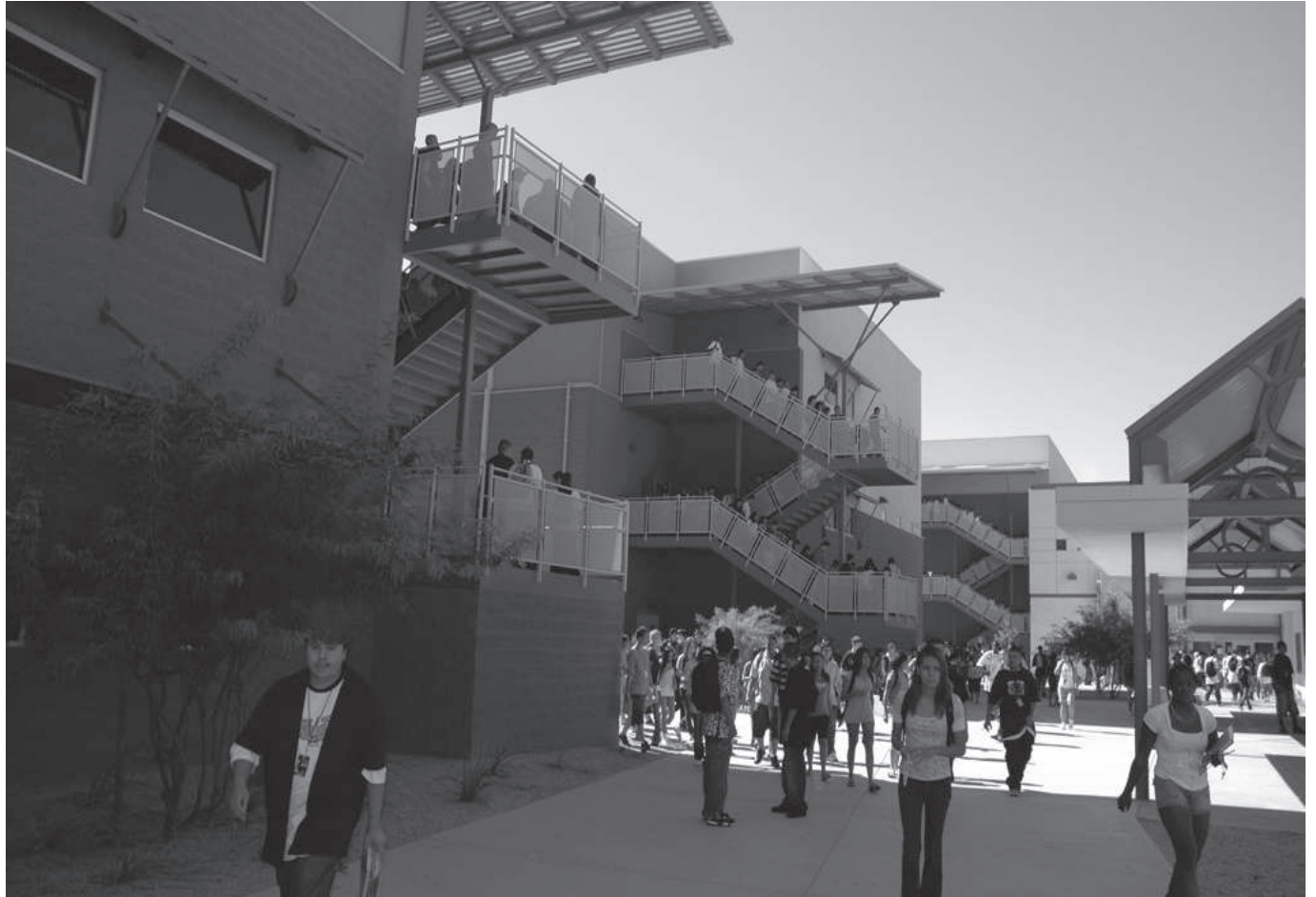
### **The Mission of Trevor G. Browne High School**

The TGB community fosters life-long learning through an equitable and rigorous curriculum in a positive school environment.

# CAMELBACK

## High School

4612 North 28th Street  
Phoenix, Arizona 85016  
(602) 764-7000 • [www.CamelbackHS.org](http://www.CamelbackHS.org)



Camelback High School is dedicated to creating students of strong character, commitment and competence in a highly supportive and rigorous environment through college-bound, community-building and campus-based initiatives. Camelback is home to a new, innovative School of Game Design, Engineering, Architecture, Robotics and Sustainability, or GEARS, where students can gain valuable training and instruction in several college and career areas that focus on science, technology, engineering and mathematics (STEM). The GEARS program is just part of an aggressive plan for more rigor, including increased Advanced Placement offerings. Camelback requires all students to take an Advisory period each day where they receive tutoring, complete homework, utilize the library and computer labs, track attendance and grades and connect with peers, their advisor, and give and receive peer tutoring. All 2,000 students further connect with the campus and community with the requirement to join a club or sport, complete community service and attend 15 campus events a year. The campus underwent a recent \$30 million renovation that included a new library, two new academic buildings and cafeteria. Students enjoy the Camelback College Commons and Camelback College Café and began a Spartan Scholarship and Stewardship Center. Camelback has a new television studio, TV class and produces an award-winning news magazine called Camelback Now. The school also boasts of outstanding art, drama and marketing programs and offers Evening School.

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## GENERAL ELECTIVES

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### **COMPUTER MAINTENANCE & REPAIR (STRUT) 1**

One-semester course, grade level 11, 12

Prerequisite: Computer experience and Instructor recommendation

This is a high-powered course for students considering a career in computer science or system operation. Students will work on client/server computer systems and will learn computer network operation and concepts and repair computers. A background in DOS or knowledge of computer hardware is a plus. Students will explore Windows, DOS, Novell and the Internet.

# CENTRAL

## High School

4525 North Central Avenue  
Phoenix, Arizona 85012  
(602) 764-7500 • [www.PhxCentralHigh.org](http://www.PhxCentralHigh.org)



Central High School is home to the brilliant Bobcat's! We are proud to be the first comprehensive high school in Arizona to offer the prestigious Cambridge Curriculum, which is the world's largest provider of advanced college curricula, examinations, and college preparatory classes. Home to the Global Studies Magnet Program, Central offers a diversity of world language and global business classes unsurpassed in Phoenix. With global business pathways, a student advisory period, extended learning opportunities, stellar athletic programs, and diverse activities Central students will find a safe and rigorous environment for their preparation for college, career and life.



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## CENTER FOR GLOBAL STUDIES

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### PROGRAM EMPHASIS:

Students with an interest in languages, world cultures and international travel are encouraged to enroll in the Center for Global Studies. Magnet students may have an opportunity to experience world cultures first hand by traveling to Japan, France, Costa Rica, China and Mexico during their Junior and Senior year. It is a program designed to give students opportunities through course work, guest speakers, and student exchange travel programs, to learn about and be aware of our global society and lay the foundation for future employment in an international setting.

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## BUSINESS EDUCATION

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### GLOBAL MARKETING AND BUSINESS 1-2

Two-semester course, grade level 10, 11, 12

Prerequisite: None

This required magnet program course provides students an understanding of the social and economic responsibilities of those engaged in a competitive global economic system. The program of study includes salesmanship, advertising, management, promotion, world economics, free enterprise, marketing research, business ownership, human relations, buying and pricing. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Distributive Education Clubs of America (DECA), a state and national career and technical student organization.

### GLOBAL MARKETING AND BUSINESS 3-4

Two-semester course, grade level 11, 12

Prerequisite: None

This elective magnet course will provide instruction related to a global marketing study in areas such as advanced salesmanship, advertising, public relations, store operations, entrepreneurship, and management. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Distributive Education Clubs of America (DECA), a state and national career and technical student organization.

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## EDUCATION TRAINING

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### CAMBRIDGE EARLY CHILDHOOD EDUCATION 1-2

Two-semester course, grade level 10, 11

Prerequisite: None; FACS 1-2: Career Exploration recommended

This program is for students who are interested in careers in early childhood education and/or employment in the child care industry. Students develop the academic and job skills necessary for employment by participating in classroom and child care learning center activities. Responsibility and essential teaching skills are emphasized. This course provides the foundation for the attainment of the nationally recognized CDA industry credential. Students may be expected to earn their CPR/First Aid certification, attain a current Maricopa Food Service Worker/Food Handler's card and may be required to pass a TB test. Students will be required to comply with industry-specific personal presentation and dress code. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Educators of America (FEA), a state and national career and technical student organization.

### CAMBRIDGE EARLY CHILDHOOD EDUCATION 3-4

Two-semester course, grade level 11, 12

Prerequisite: Successful completion with a C or better of Early Childhood Education 1-2

This advanced program includes job skills, related academic skills and responsibility skills needed to be successful in the early childhood education environment and the child care industry. The work experience in an authentic or simulated child care learning center laboratory will provide a variety of real learning experiences that are required for employment. This course prepares student to obtain the nationally recognized CDA industry credential. Students will be required to earn their CPR/First Aid certification, attain a current Maricopa Food Service Worker/Food Handler's card and may be required to pass a TB test. Students will be required to comply with industry-specific personal presentation and dress code. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Educators of America (FEA), a state and national career and technical student organization.

### GLOBAL EDUCATION PROFESSIONS 1-2

Two-semester course, grade level 11, 12

Prerequisite: Successful completion of Early Childhood Education 1-2

This course provides students interested in becoming a teacher a program of study in education career choices. Students will analyze the stages of child development related to teaching and learning. They will experience hands-on activities in the preparation of lesson planning and classroom management. Students will delve into education theory and methodology; learning styles; history of U. S. education and structure; roles and characteristics of teachers. Introductory classroom observation and interactive field experiences will be included. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Educators of America (FEA), a state and national career and technical student organization.

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## ENGLISH

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### A LEVEL ENGLISH

Two-semester course, grade level 12

Prerequisite: Cambridge English 1-2, 3-4 and or the successful passing of the IGCSE exam and AS Level English with a C or better

Cambridge International A Level English is a university-level course for academically advanced students who have taken the IGCSE Cambridge English exam, successfully passed the AS Level English course, and are interested in studying the subject at the most advanced level. All students in this course are expected to take the A Level English examination at the end of the year; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course, students receive honors credit. A Level English students gain lifelong skills, including: effective and appropriate communication, and the interdependent skills of reading, analysis and communications.

### AS LEVEL ENGLISH

Two-semester course, grade level 11, 12

Prerequisite: Cambridge English 1-2, 3-4 and or the successful passing of the IGCSE exam

Cambridge International AS Level English is a university-level course for academically advanced students who have taken the IGCSE Cambridge English exam, and are interested in studying the subject at a more advanced level. All students in this course are expected take the AS Level Cambridge English examination at the end of the school year; depending on the score, students can earn college credit. Due to the rigorous program of study in the course, students receive honors credit. AS Level English students gain lifelong skills, including: effective and appropriate communication, and the interdependent skills of reading, analysis and communication.

### CAMBRIDGE ENGLISH 1-2

Two-semester course, grade level 9

Prerequisite: None

English 1-2 is the beginning course in the series for required English credits. Instruction builds upon the reading, writing, listening, speaking and critical thinking foundations established in 8th grade. Included is the study of thematic literature collections related to personal experiences. Reading comprehension strategies and control of the six traits of writing are emphasized. Active listening and speaking are practiced in formal and informal situations. A variety of media presentations is evaluated for social and cultural messages.

### CAMBRIDGE ENGLISH 1-2 H

Two-semester course, grade level 9

Prerequisite: 88th percentile rank in reading; Instructor recommendation

This course is designed for academically advanced, highly motivated students who consistently perform above grade level in all language skills. This course addresses the same standards and goals as English 1-2 with a more intensive study of literature, language and composition. Challenges to critical thinking, reading and academic writing are provided. Students pursue high cognitive goals through intensive study and independent work.

### CAMBRIDGE ENGLISH 3-4

Two-semester course, grade level 10

Prerequisite: Completion of English 1-2

This course continues to refine and expand skills developed in English 1-2. Thematic collections of world literature, with an emphasis on the universality of themes, are presented. The six traits of writing are further refined in the context of narrative and academic writing. MLA guidelines are introduced. The political and economic consequences of media forms are investigated.

### CAMBRIDGE ENGLISH 3-4 H

Two-semester course, grade level 10

Prerequisite: Completion of English 1-2, 1-2 H; Instructor recommendation

This course is designed for students who completed English 1-2 with a grade of C or better, were successful in English 1-2 H or are recommended for placement. This course addresses the same standards and goals as English 3-4 with a more intensive and comprehensive study of world literature, language and composition. Challenges to critical thinking, reading and academic writing are provided. Students pursue high cognitive goals through intensive study and independent work.

### SOUTH / CENTRAL AMERICAN LITERATURE 1

One-semester course, grade level 12

Prerequisite: None

This course does not full the PUHSD English requirement

The students and teacher will discuss, in a seminar, various aspects of this literary genre. The students will write a formal 5-10 page essay. Students will also write critiques in addition to writing creative efforts based upon various styles. An overall view of South American literature will be sequenced into the discussions. Grades will be based upon the quality of the discussion and writing from each student. Students will be required to spend a great amount of time outside of class reading material.

### SPEECH AND DEBATE

1-2 H

3-4 H

5-6 H

7-8 H

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This honors class is intended for all students who are interested in opportunities that cross interdisciplinary lines. A portfolio demonstrating honors competency and effort is required in order to receive the honors credit. This course is designed to provide a series of opportunities to allow students to achieve success in the skills associated with multiple speech and debate activities. Students will participate in the interpretation of literature, the writing of public address speeches, the creation of limited preparation writings, debates on various resolutions, and other activities associated with the forensic arts. Policy debate, Lincoln-Douglas debate, and Public Forum debate are all offered as options. All events require the development of research skills as well as multiple practices. Current and historical events provide a basis for some events. Advanced students will also have the ability to serve as mentors to less experienced participants. Technology and guided practices. This course may be repeated for additional credit

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## MATHEMATICS

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### A LEVEL MATH

Two-semester course

Prerequisite: Cambridge Algebra 1-2 and Cambridge Geometry 1-2 and AS Level Mathematics or comparable transfer courses(3 years) from outside the district

Cambridge International A Level Mathematics is a university level course for academically advanced students who are interested in studying the subject at the most advanced level. Students should have earned an A\*, A, B, or C on the IGCSE mathematics exam and taken the AS Level Mathematics exam to enroll in this course. All students in this course are expected to take the A Level Mathematics examination at the end of the year; depending on the score, students can earn college credit. Due to rigorous program of study students receive honors credit.

## AS LEVEL MATH

Two-semester course

Prerequisite: Cambridge Algebra 1-2 and Cambridge Geometry 1-2 or comparable transfer courses(2 years) from outside the district.

Cambridge International AS Level Mathematics is a university level course for academically advanced students who are interested in studying the subject at a more advanced level. All students in this course are expected to take the AS Level Mathematics examination at the end of the year; depending on the score, students can earn college credit.

## CAMBRIDGE ALGEBRA 1-2

Two-semester course, grade level 9, 10

Meets PUHSD and Arizona Mathematics Standards graduation requirements  
Meets mathematics admission requirements of Arizona universities

This course is designed to prepare students to meet the AIMS graduation requirement and provide students with the mathematical background necessary to meet college entrance requirements. Concept units include solving, graphing and writing linear functions, system of equations, exponents, radicals, polynomials, quadratics and data analysis. Students who have previously received credit for Algebra 1-2 H may not receive credit for Algebra 1-2.

## CAMBRIDGE ALGEBRA 1-2 H

Two-semester course, grade level 9, 10

Prerequisite: Meets placement criteria on standardized test

Meets PUHSD and Arizona Mathematics Standards graduation requirements  
Meets mathematics admission requirements of Arizona universities

This is the first course of a four-year program in the Honors sequence designed to prepare students for careers in mathematics, science, engineering or related fields. Concept units are similar to those in Algebra 1-2, and focus on tasks that are inquiry based and more in depth. This course is an integration of technology, inquiry-based learning, critical thinking, with a culminating capstone project. Students who receive credit for Algebra 1-2 H may not also receive credit for Algebra 1-2 or Introduction to Algebra 1-2.

## CAMBRIDGE GEOMETRY 1-2

Two-semester course, grade level 9, 10, 11

Prerequisite: Algebra 1-2

Meets PUHSD and Arizona Mathematics Standards graduation requirements  
Meets mathematics admission requirements of Arizona universities

This course, with its prerequisites, is designed to prepare students to meet the AIMS graduation requirement, and provide students with the mathematical background necessary to meet college entrance requirements. Concept units include coordinate geometry, perpendicular and parallel lines, logical reasoning, properties of triangles and quadrilaterals, transformations, quadratic relations, right triangle trigonometry, similar and congruent figures, two and three dimensional figures, circles and data analysis. Students who have previously received credit for Geometry 1-2 H may not also receive credit for Geometry 1-2.

## CAMBRIDGE GEOMETRY 1-2 H

Two-semester course, grade level 9, 10, 11

Prerequisite: Algebra 1-2 H or Algebra 1-2 with a grade of C or better

Meets PUHSD and Arizona Mathematics Standards graduation requirements  
Meets mathematics admission requirements of Arizona universities

This is the second course of the honors sequence. This course is designed to provide students with the mathematical background necessary for careers in science, mathematics or engineering. Concept units are similar to those in Geometry 1-2 and focus on tasks that are inquiry based and more in depth. This course is an integration of technology, inquiry-based learning, critical thinking, with a culminating capstone project. Students who have previously received credit for Geometry 1-2, may not also receive credit for Geometry 1-2 H.

# CAREER & TECHNICAL EDUCATION

## A LEVEL CAMBRIDGE FASHION DESIGN & MERCHANDISING

Two-semester course

Prerequisite: Cambridge Fashion Design & Merchandising 1-2 and AS Level Fashion Design & Merchandising 3-4 or comparable transfer courses (2years) from outside the district

Cambridge International A Level Fashion Design & Merchandising is a university-level course for academically advanced students who are interested in studying the subject at the most advanced level. Students should have earned A\*, A, B, or C on the AS level Design and Textiles exam to enroll in this course. All students in this course are expected to take the A Level Design & Textiles examination at the end of the year; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course, students receive honors credit. A Level Design and Textile students gain lifelong skills, including: designing garments, creating garments, analyzing effectiveness of garment design and construction, and presenting merchandise to a consumer audience.

## AS LEVEL CAMBRIDGE FASHION DESIGN & MERCHANDISING 1-2

Two-semester course, grade level 10, 11

Prerequisite: None; FACS 1-2: Career Exploration recommended

This course addresses knowledge and skills related to the fashion industry, and related fields of textiles, apparel design and production. Topics include exploration of the apparel industry from production to marketing; clothing and textiles; apparel construction; consumer options for fashion, textiles, and related equipment and tools; care and maintenance of textile products, and equipment. Areas of study include selection and coordination of clothing and accessories, and construction techniques through a variety of projects. Students will explore career opportunities in the apparel industry. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in a state and national career and technical student organization.

## AS LEVEL CAMBRIDGE FASHION DESIGN & MERCHANDISING 3-4

Two-semester course, grade level 11, 12

Prerequisite: Successful completion of Fashion Plus 1 - 2

In this advanced course, students will continue their program of study in the fashion industry, develop entrepreneurial skills, and prepare for related employment. Students will build upon and expand the skills attained earlier and experience new skills related to the fields of apparel, design, textiles and clothing construction. Expanded experiences will include principles of clothing construction, pattern design, surface design, fitting and alteration, and varied custom sewing techniques. Student projects applying design principles will serve as vehicles to further develop student skill levels. An emphasis will be on fashion design projects at a higher level of clothing production and show case displays. Career preparation, teamwork, marketing skills, and knowledge of the various business functions in the fashion industry are a part of the curriculum. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in a state and national career and technical student organization.

## GLOBAL COSTUME DESIGN AND CONSTRUCTION 1-2

Two-semester course, grade level 10, 11, 12

Prerequisite: None

This course will help students develop the skills to design and construct a costume. They will also gain an understanding of the historical silhouette of costume design and become exposed to the various careers in costuming.

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## FAMILY CONSUMER SCIENCES

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### **CAMBRIDGE CULINARY ARTS 1-2**

Two-semester course, grade level 10, 11

Prerequisite: None; FACS 1-2: Career Exploration recommended

Students in Culinary Arts 1-2 will, in a laboratory setting, acquire hands-on skills and experience needed to demonstrate the application of creative food preparation. The focus will be on the development of food preparation skills required to be a success in the culinary and related industries. Other focus points include proper food handling, safety and sanitation, use of weights and measurements, use of tools and equipment, knife skills, culinary language terminology, ingredient identification and their function. Students will be required to comply with industry-specific personal presentation and dress code. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in a state and national career and technical student organization.

### **CAMBRIDGE CULINARY ARTS 3-4**

Two-semester course, grade level: 11, 12

Prerequisite: Successful completion of Foods 1-2 or Culinary Arts 1-2

This advanced course continues a program of study in food preparation, planning and production, including Cooking Techniques, Baking Skills, and Restaurant Service. Students will experience real work while catering for special events. An emphasis will be on refining the sophistication of student skills necessary to build a career as a Baker, a Chef, or a Manager in the food service or other related industries; or own and operate their own successful bakery or restaurant. Students will be required to attain a current Maricopa Food Service Worker/Food Handler's card. Students will be required to comply with industry-specific personal presentation and dress code. Career preparation, teamwork, and business skills are a part of the curriculum. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in a state and national career and technical student organization.

### **CAMBRIDGE FOOD AND NUTRITION 1-2**

Two-semester course, grade level 10, 11

Prerequisite: None; FACS 1-2: Career Exploration recommended

Students will, in a laboratory setting, acquire hands-on skills and experience needed to demonstrate the application of creative food preparation. The focus will be on the development of food preparation skills required to be a success in the culinary and related industries. Other focus points include proper food handling, safety and sanitation, use of weights and measurements, use of tools and equipment, knife skills, culinary language terminology, ingredient identification and their function. Students will be required to comply with industry-specific personal presentation and dress code. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in a state and national career and technical student organization.

### **CAMBRIDGE FOOD AND NUTRITION 3-4**

Two-semester course, grade level: 11, 12

Prerequisite: Successful completion of Foods 1-2 or Culinary Arts 1-2

This advanced course continues a program of study in food preparation, planning and production, including Cooking Techniques, Baking Skills, and Restaurant Service. Students will experience real work while catering for special events. An emphasis will be on refining the sophistication of student skills necessary to build a career as a Baker, a Chef, or a Manager in the food service or other related industries; or own and operate their own successful bakery or restaurant. Students will be required to attain a current Maricopa Food Service Worker/Food Handler's card. Students will be required to comply with industry-specific personal presentation and dress code. Career preparation, teamwork, and business skills are a part of the curriculum. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in a state and national career and technical student organization. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a national and state career and technical student organization.



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# INDUSTRIAL TECHNOLOGY

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## **CAMBRIDGE GAME DESIGN 1-2**

Two-semester course, grade level 10, 11  
Prerequisite: None

Students in this course will study the technology, science and art involved in the creation of computer games. Study will include a variety of software technologies relevant to games including programming languages, scripting languages, operating systems, file systems, networks, simulation engines, and multi-media design systems. Students will study some of the underlying scientific concepts from computer science and related fields including: simulation and modeling, graphics, artificial intelligence, real-time processing, and game theory. Additional study will include the art and design principles for developing usable and engaging games including: software engineering, human computer interaction, thematic structure, graphic design, choreography, music and sound effects, and game aesthetics. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

## **CAMBRIDGE GAME DESIGN 1-2 HONORS**

Two-semester course  
Prerequisite: None

Cambridge Game Design 1-2 Honors is a rigorous course designed to prepare all students to succeed in 11th and 12th grade courses, especially A/AS Level Cambridge courses. Students who pass Cambridge IGCSE Computer Studies exam at the end of the course can earn credits towards a Grand Canyon Diploma to be high school proficient as soon as the end of their 10th grade year. Students in this course gain lifelong skills, including: an awareness of new and emerging technologies in computer software and web applications, development of web systems and websites, and workplace applications of technology.

## **CAMBRIDGE GAME DESIGN 3-4**

Two-semester course, grade level 11, 12  
Prerequisite: None

Students in this advanced course will continue their study of the technology, science and art involved in the creation of computer games. Study will include more complex concepts in software technologies relevant to games including programming languages, scripting languages, operating systems, file systems, networks, simulation engines, and multi-media design systems. The student will continue to work towards proficiency in the art and design principles for developing usable and engaging games including: software engineering, human computer interaction, thematic structure, graphic design, choreography, music and sound effects, and game aesthetics. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

## **CAMBRIDGE GAME DESIGN 3-4 HONORS**

Two-semester course  
Prerequisite: None

Cambridge Game Design 3-4 Honors is a rigorous course designed to prepare all students to succeed in 11th and 12th grade courses, especially on A/AS Level Cambridge courses. Students who pass Cambridge IGCSE Computer Studies exam at the end of the course can earn credits towards a Grand Canyon Diploma to be high school proficient as soon as the end of their 10th grade year. Students in this course gain lifelong skills, including: an awareness of new and emerging technologies in computer software and web applications, development of web systems and websites, and workplace applications of technology.

## **CAMBRIDGE INFORMATION AND COMMUNICATION TECHNOLOGY**

Two-semester course  
Prerequisite: None

Cambridge Information and Communication Technology is a rigorous course designed to prepare all students to succeed in 11th and 12th grade courses, with emphasis on A/AS Level Cambridge Courses. Students who pass Cambridge IGCSE exam at the end of the course can earn credits towards a Grand Canyon Diploma to be high school proficient as soon as the end of their 10th grade year. Students in this course gain lifelong skills, including: an awareness of new and emerging technologies in computer software and web applications, development of web systems and websites, and workplace applications of technology.

## **CAMBRIDGE WEB DESIGN 1-2**

Two-semester course, grade level 10, 11  
Prerequisite: None

In this course students will study the technology, analysis and design of websites for the World Wide Web. The course will take a user-centered approach to designing web sites. The course will focus on the entire lifecycle of a web site, from the idea of creating a web site, through requirements gathering, conceptual design, physical design, testing and implementation. Students will define a web site mission and target user population, collect the user requirements for a web site, conceptually design an appropriate page and site design, write the code to implement a web site, perform usability testing on a web site, and successfully implement and manage a web.

## **CAMBRIDGE WEB DESIGN 1-2 HONORS**

Two-semester course  
Prerequisite: None

Cambridge Web Design 1-2 Honors is a rigorous course designed to prepare all students to succeed in 11th and 12th grade courses, especially on A/AS Level Cambridge courses. Students who pass Cambridge IGCSE Computer Studies exam at the end of the course can earn credits towards a Grand Canyon Diploma to be high school proficient as soon as the end of their 10th grade year. Students in this course gain lifelong skills, including: an awareness of new and emerging technologies in computer software and web applications, development of web systems and websites, and workplace applications of technology.

## **CAMBRIDGE WEB DESIGN 3-4**

Two-semester course, grade level 11, 12  
Prerequisite: None

In this advanced course students will continue to study the technology, analysis and design of websites for the World Wide Web. The course will continue to take a user-centered approach to designing web sites. The course will focus on refining the web site, from the idea of creating a web site, through requirements gathering, conceptual design, physical design, testing and implementation. Students will employ the skills learned in the introductory course and apply them to real world situations. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a national and state career and technical student organization.

**CAMBRIDGE WEB DESIGN 3-4 HONORS**

Two-semester course, grade level 10, 11  
Prerequisite: None

Cambridge Web Design 3-4 Honors is a rigorous course designed to prepare all students to succeed in 11th and 12th grade courses, especially on A/AS Level Cambridge courses. Students who pass Cambridge IGCSE Computer Studies exam at the end of the course can earn credits towards a Grand Canyon Diploma to be high school proficient as soon as the end of their 10th grade year. Students in this course gain lifelong skills, including: an awareness of new and emerging technologies in computer software and web applications, development of web systems and websites, and workplace applications of technology.

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**PERFORMING ARTS**

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**DANCE**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This one-year course, designed for the beginning level dancer, introduces basic techniques in ballet, modern and jazz, as well as improvisation, choreography and concert production. This is a fun, challenging, active course emphasizing all aspects of the art of dance. Class activities will include performances and written assignments. This course demands a high level of effort and commitment while encouraging enjoyment of creative expression.

**MUSIC**

**AS LEVEL MUSIC**

Two-semester course  
Prerequisite: Cambridge Music and two years of Cambridge choir, Band, or Piano courses or comparable transfer courses (2 years) from outside the district.

Cambridge International AS Level Music is a university-level course for academically advanced students who have taken the IGCSE Music exam and are interested in studying the subject at a more advanced level. All students in this course are expected to take the AS Level Music examination at the end of the year; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course, students receive honors credits and students gain lifelong skills, including: responding critically to music, creating and interpreting music through composition, and performing music from a wide range of cultural context.

**CAMBRIDGE IGCSE MUSIC**

Two-semester course  
Prerequisite: 1 Year of a Performing Arts Music Performance Class, or Instructor approval. Requires co-requisite of registration in a performance class of the student's primary instrument (choir, band, guitar, piano, etc.).

Cambridge IGCSE Music is a rigorous course designed to prepare all students to succeed in 11th and 12th grade courses, especially A/AS Level Cambridge courses. Students who pass the Cambridge IGCSE exam at the end of the course can earn credits towards a Grand Canyon Diploma to be high school proficient as soon as the end of their 10th grade year. Students in this course gain lifelong skills, including: This course provides a foundation for the development of an informed appreciation of music, including music of Western and non-Western cultures. By successfully completing this course, students will be able to discern similarities and differences between music of world cultures. The Cambridge music course provides a rigorous, intensive level of study that engages the student in performance, composition, and listening, students gain life-long skills, including: responding critically to music, creating and interpreting music through composition, and performing music from a wide range of cultural context.

**CAMBRIDGE INTERMEDIATE BAND 1-2**

**CAMBRIDGE INTER. BAND 3-4**  
**CAMBRIDGE INTER. BAND 5-6**  
**CAMBRIDGE INTER. BAND 7-8**  
Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: Beginning Band or Instructor approval

This course is for students with experience playing an instrument. The course addresses the music standards at the intermediate level. Extra time is required for rehearsals and performances throughout the concert seasons. Enrollment in the class obligates students to participate in all scheduled activities of the band. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor.

**CAMBRIDGE BEGINNING GUITAR 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This beginning course in guitar teaches the fundamentals which enable a student to read music and to play the guitar. No previous experience is necessary. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year.

**CAMBRIDGE BEGINNING PERCUSSION ENSEMBLE 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: Instructor approval

This course will focus on the fundamentals and skills of percussive instrumental music. No previous experience is necessary and instruments will be provided by the school. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students will occasionally perform in public with the group and in small ensembles. Students must complete and pass semester one in order to participate in semester two, or with the approval of the instructor.

**CAMBRIDGE CHOIR 1-2**  
**CAMBRIDGE CHOIR 3-4**  
**CAMBRIDGE CHOIR 5-6**  
**CAMBRIDGE CHOIR 7-8**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This course is designed as a vocal experience for students in which they sing for enjoyment, develop vocal skills and read and study a wide variety of choral music. Students will perform with the group in public and may perform in small ensembles. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. This course addresses the music standards at the Foundations level. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor.

**CAMBRIDGE INTERMEDIATE CHOIR 1-2 H**

**CAMBRIDGE INTER. CHOIR 3-4 H**

**CAMBRIDGE INTER. CHOIR 5-6 H**

**CAMBRIDGE INTER. CHOIR 7-8 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Choir or Instructor approval

This course offers advanced experience in choral singing. The choir provides opportunities for personal development through solo work, public performances and the study of a variety of choral literature. This course addresses the music standards at the Essentials level. Extra time is required for rehearsals and performances. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor. For honors credit, additional performance and leadership opportunities and higher level creative processes are expected.

**CAMBRIDGE ADVANCED CHOIR 1-2 H**

**CAMBRIDGE ADV. CHOIR 3-4 H**

**CAMBRIDGE ADV. CHOIR 5-6 H**

**CAMBRIDGE ADV. CHOIR 7-8 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Intermediate Choir or Instructor approval

This course offers advanced experience in choral singing. The choir provides opportunities for personal development through solo work, public performances and the study of a variety of choral literature. This course addresses the music standards at the advanced level. Enrollment in the class obligates students to participate in all scheduled activities of the ensemble. Extra time outside of the regular school day is expected of all students for rehearsals and performances throughout the year. Students must complete and pass semester one in order to participate in semester two, or with the approval of instructor. For honors credit, additional performance and leadership opportunities and higher level creative processes are expected.

**CAMBRIDGE PIANO LAB 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Basic musical knowledge and appreciation, or approval of Instructor

This beginning course in piano teaches the fundamentals of playing a keyboard instrument. No previous experience is necessary and the school provides an instrument for use in class.

**CAMBRIDGE PIANO LAB 3-4**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Instructor approval

The course expands students' piano technique. All music standards are addressed including performance, improvisation, composing and arranging, notation, analysis and evaluation of music, and music history. In addition to the classical repertoire, students read, play and analyze music from various epochs and cultures. The school provides an instrument for use in class.

**CAMBRIDGE PIANO LAB 5-6**

**CAMBRIDGE PIANO LAB 5-6 H**

Two-semester course, grade level 11, 12

Prerequisite: Piano 1-2 and 3-4, or Instructor approval

The course continues to expand students' piano technique. All music standards are addressed at a more advanced level, including performance, improvisation, composing and arranging, notation, analysis and evaluation of music, and music history. In addition to the classical repertoire, students read, play and analyze music from various epochs and cultures. For honors credit, additional performance opportunities, higher level music theory and ear training, and research assignments are expected. The school provides an instrument for use in class.

**CAMBRIDGE PIANO LAB 7-8**

**CAMBRIDGE PIANO LAB 7-8 H**

Two-semester course, grade level 12

Prerequisite: Piano 1-2, 3-4 and 5-6, or Instructor approval

This course continues to expand students' piano technique. All music standards are addressed at a distinction level, including performance, improvisation, composing and arranging, notation, analysis and evaluation of music, and music history. In addition to the classical repertoire, students read, play and analyze music from various epochs and cultures. For honors credit, additional performance opportunities, higher level music theory and ear training, and a final research project are expected. The school provides an instrument for use in class.

**THEATRE ARTS**

**CAMBRIDGE INTRO TO THEATRE ARTS 1-2**

**CAMBRIDGE INTRO TO THEATRE ARTS 3-4**

**CAMBRIDGE INTRO TO THEATRE ARTS 5-6**

**CAMBRIDGE INTRO TO THEATRE ARTS 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

The purpose of this year-long course is to give the student an appreciation of and experience in theatre as an art form. The student will act in pantomimes, plays and play cuttings. Students will be introduced to technical theatre history and culture. The student will read, write, direct and evaluate plays as well as view and discuss electronic and live performances. This course demands a high level of effort and commitment while encouraging enjoyment of creative expression.

**CAMBRIDGE INTERMEDIATE THEATRE ARTS 1-2**

**CAMBRIDGE INTER. THEATRE ARTS 3-4**

**CAMBRIDGE INTER. THEATRE ARTS 5-6**

**CAMBRIDGE INTER. THEATRE ARTS 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Intro to Theatre Arts or Instructor approval

The purpose of this year-long course is to give the student an increased appreciation of and additional experience in theater as an art form. The student will act, direct, or be technically involved in scenes, one-act plays or full length productions. Students will read, write and evaluate plays as well as view and critique electronic plays and live performances. History, culture and technology will be examined and career opportunities will be explored. Through creating theatre, students will grow in their ability to comprehend the world and to communicate with others. This course demands a high level of effort and commitment while encouraging enjoyment of creative expression.

**CAMBRIDGE ADVANCED THEATRE ARTS 1-2****CAMBRIDGE ADV. THEATRE ARTS 3-4****CAMBRIDGE ADV. THEATRE ARTS 5-6****CAMBRIDGE ADV. THEATRE ARTS 7-8**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Intermediate Theatre Arts or Instructor approval

This course is for students with extensive experience in theatre. The course addresses the theatre standards at the intermediate, advanced and distinction levels and demands a high level of effort and commitment while encouraging enjoyment of creative expression. Students will read, write and analyze electronic and live performances. History, culture, and technology will be examined as they are woven throughout the course and career opportunities will be explored. Students will be expected to accomplish in-depth research, analysis, reflection, applications, and production/performances.

**CAMBRIDGE THEATRE PRODUCTION 1-2 H****CAMBRIDGE THEATRE PROD. 3-4 H****CAMBRIDGE THEATRE PROD. 5-6 H****CAMBRIDGE THEATRE PROD. 7-8 H**

Two-semester course, grade level 10, 11, 12

Prerequisite: Advanced Theatre Arts or Instructor approval

This course is for students with extensive experience in theatre. The course addresses the theatre standards at the intermediate, advanced and distinction levels and demands a high level of effort and commitment while encouraging enjoyment of creative expression. Students will read, write and analyze electronic and live performances. History, culture, and technology will be examined as they are woven throughout the course and career opportunities will be explored. Students will be expected to accomplish in-depth research, analysis, reflection, applications, and production/performances. For honors credit, additional performance and leadership opportunities and higher level creative processes are expected.

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## PHYSICAL EDUCATION

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**CAMBRIDGE PHYSICAL EDUCATION 1-2****9TH GRADE BOYS****9TH GRADE GIRLS****10-12TH GRADE BOYS****10-12TH GRADE GIRLS**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

In this course students experience individual, dual and team sports with emphasis on participation by learning basic and advanced skills and offering specialized physical education activities at the 11th and 12th grade levels. This course may be repeated for credit.

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## SCIENCE

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**AS LEVEL BIOLOGY**

Two-semester course, grade level 11, 12

Prerequisite: Cambridge Biology 1-2 or comparable biology course

Cambridge International AS Level Biology is a university-level course for academically advanced students who have taken the IGCSE Biology exam and are interested in studying the subject at a more advanced level. All students in this course are expected to take the AS Level Biology examination at the end of the program; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course, students receive honors credit. AS Level Biology students gain lifelong skills, including: designing studies and experiments and developing concern for accuracy and precision, objectivity, integrity, skills of enquiry, initiative, and inventiveness.

**CAMBRIDGE BIOLOGY 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Physical Science or meets placement criteria

Students must have taken Biology 1 to be enrolled in Biology 2.

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Biology 1-2 is a laboratory science course designed to meet the Arizona and national standards for the inquiry process, history and nature of science, science in personal and social perspectives, and life science. Students of Biology 1-2, will engage in scientific inquiry to uncover concepts related to cellular processes, interdependence of organisms and the environmental system, genetics, and the molecular basis of heredity, and the scientific principles and processes involved in biological evolution. Students who previously received credit for Biology 1-2 H may not receive credit for Biology 1-2. Biology 1-2 should be successfully completed by the end of the sophomore year.

**CAMBRIDGE BIOLOGY 1-2 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Physical Science or meets placement criteria

Students must have taken Biology 1 to be enrolled in Biology 2.

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Biology 1-2 H is a laboratory science course designed for students who wish to pursue a more challenging and quantitative approach to biology. This course provides students with opportunities to think like biologists as they use scientific inquiry to study living systems. Students of Biology 1-2 H will explore, in depth, concepts related to cellular processes, interdependence of organisms and the environmental system, genetics and the molecular basis of heredity, and the scientific principles and processes involved in biological evolution. Students who previously received credit for Biology 1-2 may not receive credit for Biology 1-2 H. Biology 1-2 H should be successfully completed by the end of the sophomore year.

**CAMBRIDGE CHEMISTRY 1-2**

Two-semester course, grade level 10, 11, 12

Prerequisite: Algebra 1-2; Biology 1-2

Students must pass Chemistry 1 with a D or better to advance to Chemistry 2

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Chemistry 1-2 is a laboratory science course designed to explore matter and composition of the world. The major instructional areas are: identifying consistencies in experimental data, structure of matter as a key to chemical and physical properties, mole concept, energy changes in matter, conservation of energy, equilibrium systems and stoichiometric relationships. Laboratory work and scientific method are emphasized.



**CAMBRIDGE CHEMISTRY 1-2 HONORS**

Two-semester course, grade level 10, 11, 12

Prerequisite: Algebra 1-2; Biology 1-2

Students must pass Chemistry 1 with a D or better to advance to Chemistry 2

Meets PUHSD and Arizona Science Standards graduation requirement  
Meets laboratory science admission requirement of Arizona universities

Chemistry 1-2 is a laboratory science course designed to explore matter and composition of the world. The major instructional areas are: identifying consistencies in experimental data, structure of matter as a key to chemical and physical properties, mole concept, energy changes in matter, conservation of energy, equilibrium systems and stoichiometric relationships. Laboratory work and scientific method are emphasized.

**CAMBRIDGE ENVIRONMENTAL SCIENCE 1-2**

Two-semester course, grade level 11, 12

Prerequisite: Biology 1-2

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Environmental Science 1-2 is a laboratory science course designed to explore the interrelationship of humanity on the local and global environment. Emphasis is on helping the student make decisions based on facts about our ability to live in harmony with the environment. This course is activity-oriented and includes such topics as ecological relationships, use and consumption of our natural resources, energy and problems resulting from population growth.

**CAMBRIDGE PHYSICS 1-2**

Two-semester course, grade level 11, 12

Prerequisite: Biology 1-2

Students must pass Physics 1 with a D or better to advance to Physics 2.

Concurrent or Prerequisite: Algebra 3-4

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Physics 1-2 is a laboratory science course designed for students who may go on to college. Topics include: motion, forces, energy, waves, light, electricity, magnetism, radioactivity, mechanical energy, nuclear physics and alternative energy sources. Major concepts are introduced through laboratory experiences.

**CAMBRIDGE PHYSICS 1-2 H**

Two-semester course, grade level 11, 12

Prerequisite: Algebra 3-4

Students must pass Physics 1 with a D or better to advance to Physics 2.

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Physics 1-2 H is a laboratory science course for students who wish to pursue a more challenging and a more quantitative approach to physics. This course provides a comprehensive survey of energy and how it is studied through science critical thinking skills. Topics covered include: motion, forces, energy, waves, light, electricity, magnetism, radioactivity, mechanical energy, nuclear physics and alternative energy sources. Major concepts are introduced through lab experiences.

**CAMBRIDGE PHYSICAL SCIENCE 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None, but see Placement Criteria Addendum

Students must have taken Physical Science 1 to be enrolled in Physical Science 2.

Meets PUHSD and Arizona Science Standards graduation requirement  
Meets laboratory science admission requirement of Arizona universities

Physical Science 1-2 is a laboratory science course designed to meet selected national and 2004 revised Arizona standards for the physical sciences, and to meet the science lab requirement for state universities. Coursework includes the study of the basic concepts of chemistry and physics, as well as mathematical applications. This laboratory-centered course involves students in building conceptual and mathematical models that fit within a story-line framework. Using problem-solving strategies, the scientific method, hands-on lab experiences and cooperative learning strategies, students acquire the abilities to do scientific inquiry and gain a knowledge base to support those inquiries. Physical Science 1-2 is a science course intended to provide the foundation for success in future science courses and should be completed by the end of the freshman year.

**CAMBRIDGE PHYSICAL SCIENCE 1-2 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None, but see Placement Criteria Addendum

Co-requisite: Algebra 1-2 H

Students must have taken Physical Science 1 to be enrolled in Physical Science 2.

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Physical Science 1-2 H is a rigorous laboratory science course designed to meet selected national and 2004 revised Arizona standards for the physical sciences, and to meet the science lab requirement for state universities. Coursework includes the study of the basic concepts of chemistry and physics at an accelerated pace, with a focus on mathematical applications. This laboratory-centered course involves students in building conceptual and mathematical models that fit within a story-line framework. Using problem solving strategies, the scientific method, hands-on lab experiences and cooperative learning strategies, students acquire the abilities to do scientific inquiry and gain a knowledge base to support those inquiries. Physical Science 1-2 H is a science course intended to provide the foundation for success in future science courses and should be completed by the end of the freshman year.

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## SOCIAL STUDIES

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**AS LEVEL ECONOMICS**

Two-semester course

Prerequisite: Cambridge History or comparable transfer courses (2 years) from outside the district

Cambridge International AS Level Economics is a university-level course for academically advanced students who have taken the IGCSE History exam and are interested in studying the subject at a more advanced level. All students in this course are expected to take the AS Level Economics examination at the end of the year; depending on their scores, students can earn college credit. Due to rigorous program of study in the course, students receive honors credit. AS Level Economics students gain lifelong skills, including: assessing different interpretations of an argument, formulating their own ideas about a subject, presenting clear, logical arguments, evaluating historical evidence, developing an understanding of historical concepts such as cause and effect, similarity and difference, continuity and change.

**AS LEVEL HISTORY**

Two-semester course

Prerequisite: Cambridge History or comparable transfer courses (2years) from outside the district

Cambridge International AS Level History is a university-level course for academically advanced students who have taken the IGCSE History exam and are interested to take the AS Level History examination at the end of the year; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course, students receive honors credit. AS Level History students gain lifelong skills, including: assessing different interpretations of an argument, formulating their own ideas about a subject, presenting clear, logical arguments, evaluating historical evidence, developing an understanding of historical concepts such as cause and effect, similarity and difference, continuity and change.

**AS LEVEL GLOBAL PERSPECTIVE 1-2 HONORS**

Two-semester course, grade level 12

Prerequisite: Global Studies Magnet Students only

This course is designed to draw on a variety of subjects, across a number of groups. It can be described as trans-disciplinary with the need for students to look at global themes and issues from a variety of perspectives. These could include almost any disciplinary perspectives that are not disciplinary; particularly the personal. The course will appeal to students not simply because it will extend their understanding of the world, but also because it will develop their general potential to understand different perspectives and to make reasoned responses: skills which will be useful in their study of all other disciplines.

**CAMBRIDGE US / ARIZONA HISTORY 1-2**

Two-semester course, grade level 11

Prerequisite: None

US/AZ History is the second course in the Social Studies Program. This course is a conceptual look at changing American culture, politics, environment and economy from the 1860s to the present day. The course's intent is to help students better understand the themes of history which shaped and continue to impact our lives. The course also challenges the knowledge gained from the World History course and applies that background to America's perspective of the 20th Century. The concepts explored in this course will continue to prepare and empower students to make choices as responsible participants in society. The course is based on the AZ State Social Studies Standards for US/AZ History.

**CAMBRIDGE US / ARIZONA HISTORY 1-2 H**

Two-semester course, grade level 11, 12

Prerequisite: See Placement Criteria

US/Arizona History 1-2 H provides the honors student with an opportunity for an in-depth investigation of the factors and forces which have shaped America. Research is expected of students enrolled in the course.

**CAMBRIDGE GLOBAL PERSPECTIVE 1-2 HONORS**

Two-semester course, grade level 12

Prerequisite: None

This course is designed to draw on a variety of subjects, across a number of groups. It can be described as trans-disciplinary with the need for students to look at global themes and issues from a variety of perspectives. These could include almost any disciplinary perspectives that are not disciplinary; particularly the personal. The course will appeal to students not simply because it will extend their understanding of the world, but also because it will develop their general potential to understand different perspectives and to make reasoned responses: skills which will be useful in their study of all other disciplines.

**CAMBRIDGE GLOBAL PERSPECTIVE 1-2**

Two-semester course, grade level 12

Prerequisite: None

This course is designed to draw on a variety of subjects, across a number of groups. It can be described as trans-disciplinary with the need for students to look at global themes and issues from a variety of perspectives. These could include almost any disciplinary perspectives that are not disciplinary; particularly the personal. The course will appeal to students not simply because it will extend their understanding of the world, but also because it will develop their general potential to understand different perspectives and to make reasoned responses: skills which will be useful in their study of all other disciplines.

**GLOBAL GEOGRAPHY 1H**

One-semester course, grade level 10

Prerequisite: None

The purpose of Global Geography is to introduce students to the patterns and processes that have shaped human understanding, use, and alteration of the world. Topics will be studied from a regional and global perspective. These topics include language, culture and religion, the environment, population, immigration, and international relations.

**GLOBAL ISSUES**

One-semester course, grade level 11

Prerequisite: None

This course will compare and contrast the quality of life in industrial countries as compared to developing countries by studying social, economic and political indicators. Students will study economic development issues relating to developing countries including reviewing major funding sources such as the World Bank, the United Nations and foreign aid. Additional topics will include reviewing population control programs throughout the world, international environmental issues and any current topics that are global in nature. Students will engage in a major project were they choose a developing country and present a written and oral comprehensive economic development plan for that country.

**GLOBAL ISSUES 1 H**

One-semester course, grade level 11

Prerequisite: None

Students will conduct in-depth studies of issues that are a global concern. Economic indicators of developing countries will be assessed and examined and corrective economic development plans will be recommended. Students will further examine worldwide problems dealing with the environment, population, immigration and religion. International funding sources such as World Bank and the United Nations will be reviewed. Students will be required to write 4 papers dealing with issues of a global nature in addition to writing a comprehensive study dealing with a major global problem.

**CAMBRIDGE WORLD HISTORY / GEOGRAPHY 1-2**

Two-semester course, grade level 10

Prerequisite: None

World History/Geography is the first course in the Social Studies Program. This course is designed to provide students with the skills and knowledge to understand the major concepts, characteristics, events and people of modern history (1500 - present). The course will include an overview of Western Civilization. Economic and political developments, geographic concepts, belief systems and cultural contributions are integrated into the curriculum. The course is based on the Arizona State Social Studies Standards for World History. This or the honors course is required for freshmen magnet program students.

**CAMBRIDGE WORLD HISTORY / GEOGRAPHY 1-2 H**

Two-semester course, grade level 10

Prerequisite: See Placement Criteria

World History/Geography 1-2 H provides the honor student with an opportunity to do an in-depth study of the economic, social, political and diplomatic aspects of world civilizations from the 1500s to the present. This course is required for freshmen magnet program students.

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# VISUAL ART

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## **CAMBRIDGE ART 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

Art 1-2 is an exploratory course covering most art mediums which include: drawing, painting, graphic arts and three dimensional work. A major emphasis will be on the use of the elements and principles of design as they relate to various problems. This is the first art course in which an art student usually enrolls.

## **CAMBRIDGE ART 3-4**

Two-semester course, grade level 10, 11, 12

Prerequisite: Art 1-2 or Instructor approval

Continuing to expand their knowledge of art mediums and elements of design, students will complete projects which involve research in art history, exploratory design, experimental sculpture or painting and new materials and techniques. The course will culminate in a slide portfolio of the students' work.

## **CAMBRIDGE ART HISTORY 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This is the study of art history from all periods. Students will describe, analyze, interpret and make judgments about visual images that may be important to the development of a student's ability to critically analyze and problem solve. Students will make aesthetic judgments through comparison and contrasting characteristics of art works made in different time periods and cultures.

## **CAMBRIDGE STUDIO ART 1-2:**

### **2-D DESIGN 1-2**

### **3-D DESIGN 1-2**

### **DRAWING 1-2**

Two-semester course, grade level 10, 11, 12

Prerequisite: Instructor approval

This course will provide the advanced art student an opportunity to develop, complete, and submit an AP Studio portfolio of her/his work. This portfolio may allow the student to receive college art credit or advanced placement if he/she meets the requirements of the National College Level Examination Program. Students have the option of submitting one of three different portfolios: Drawing, 2-D Design, or 3-D Design.

## **CAMBRIDGE STUDIO ART 3-4:**

### **2-D DESIGN 3-4**

### **3-D DESIGN 3-4**

### **DRAWING 3-4**

Two-semester course, grade level 11, 12

Prerequisite: AP Studio Art 1-2

This course will provide the advanced art student an opportunity to develop, complete and submit an AP Studio portfolio of his/her work. This portfolio may allow the student to receive college art credit for advanced placement if he/she meets the requirements of the National College Level Examination Program. Students have the option of submitting one of three different portfolios: Drawing, 2-D Design, or 3-D Design.

## **CAMBRIDGE CERAMICS 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

Ceramics 1-2 provides students with an opportunity to explore and experiment with three dimensional design in clay. Students will develop an awareness of functional and nonfunctional form, a knowledge of ceramic techniques and an aesthetic understanding of design and craftsmanship. Students wishing to enroll in Ceramics 2 must secure instructor approval.

## **CAMBRIDGE CERAMICS 3-4**

Two-semester course, grade level 10, 11, 12

Prerequisite: Ceramics 1-2 or Instructor approval

This course provides the opportunity for students to become familiar with sources and characteristics of clay; preparation and usage of glazes; purposes, types and problems of firing; and aesthetic and functional design in three-dimensional items. The course includes opportunities for students to develop a variety of ceramic forms by hand-building methods as well as throwing on the potter's wheel.

## **CAMBRIDGE DIGITAL PHOTOGRAPHY IMAGING 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This course explores the world through the camera lens and computer imaging software. Learning to synthesize, manipulate, and apply the computer software is a major component of this course. The course curriculum is designed around the elements of art and principles of design as they relate to various problems in digital photography. Students wishing to enroll in Digital Photography Imaging 2 must secure instructor approval.

## **CAMBRIDGE DIGITAL PHOTOGRAPHY IMAGING 3-4**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Digital Imaging 1-2 or Instructor Approval

Digital Imaging 3-4 builds on the foundations of Digital Imaging 1-2. This course allows more freedom to continue building on projects of personal expression for art exhibits, contests and senior portfolio shows.

**CAMBRIDGE DRAWING / PAINTING 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This course provides students an experience in a wide range of drawing techniques and tools, a variety of painting media and color theory techniques employed by professional artists which may include the use of computers. It is recommended for all students interested in developing or improving their drawing and painting skills.

**CAMBRIDGE DRAWING / PAINTING 3-4**

Two-semester course, grade level 10, 11, 12

Prerequisite: Drawing/Painting 1-2 or Instructor approval

This is the second year course which will give students who have interests and talents the opportunity to further develop their abilities in the use of the tools and materials of the professional artist, which may include the use of computers. Students will be encouraged to develop self-motivated studio practices and disciplines.

**CAMBRIDGE TRADITIONAL PHOTOGRAPHY 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

This course is designed to provide the student with basic information and skills necessary to operate a camera and do basic processing and printing which may include digital imaging. Students will explore past and present photographic concepts and become aware of the design principles and elements involved in the art of photography.

**CAMBRIDGE TRADITIONAL PHOTOGRAPHY 3-4**

Two-semester course, grade level 10, 11, 12

Prerequisite: Traditional Photography 1-2 or Instructor approval

This second year photography course is designed to provide the student with more advanced skills and introduce him/her to specialized photographic techniques, issues in photography, portraiture, medium format camera techniques and alternatives to the black and white process which may also include digital imaging.

**CAMBRIDGE ART INDEPENDENT STUDY 1-2****ART IND ST: ART 1-2****ART IND ST: CERAMICS 1-2****ART IND ST: DIGITAL PHOTOGRAPHY 1-2****ART IND ST: DRAWING AND PAINTING 1-2****ART IND ST: TRADITIONAL PHOTO 1-2**

Two-semester course, grade level 11, 12

Prerequisite: At least two credits in Art and prior approval of the Art Instructor and Department Instructional Leader

This is an elective independent research class for advanced students having at least 2 years of high school art. Students will be involved in independent research projects in areas they have a special interest and ability.

**CAMBRIDGE ART INDEPENDENT STUDY 3-4****ART IND ST: ART 3-4****ART IND ST: CERAMICS 3-4****ART IND ST: DIGITAL PHOTOGRAPHY 3-4****ART IND ST: DRAWING AND PAINTING 3-4****ART IND ST: TRAD. PHOTOGRAPHY 3-4**

Two-semester course, grade level 12

Prerequisite: Three years of Art and prior approval of the Art Instructor and Department Instructional Leader

This is an elective independent research class for twelfth grade students having at least 3 years of high school art. Students will be involved in independent research projects in areas they have a special interest and ability focusing on historical, exploratory, and experimental aspects of working with new materials and techniques.

**WORLD LANGUAGES****A LEVEL CHINESE**

Two-semester course

Prerequisite: Cambridge Chinese 1-2 and 3-4 and AS Level Chinese or comparable transfer courses (3 years) from outside the district

Cambridge International A Level Chinese is a university-level course for academically advanced students who are interested in studying the subject at the most advanced level. Students should have earned an A\*, A, B, or C on the IGCSE Chinese exam and taken the AS Level Chinese exam to enroll in this course. All students in this course are expected to take the A Level Chinese examination at the end of the year; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course, students receive honors credit. The course will be conducted entirely in Chinese and students will use exclusively Chinese in class. Students will perfect their grammar and syntax, including accentuation, as well as incorporate more elevated and sophisticated vocabulary into both the spoken and written language. A Level Chinese students will have the refined language skills necessary to major in Chinese at the university level, complete a study-abroad program in a francophone country, and compete in a globalized marketplace.

**AS LEVEL CHINESE**

Two-semester course

Prerequisite: Cambridge Chinese 1-2 and 3-4 or comparable transfer courses (2 years) from outside the district

Cambridge International AS Level Chinese is a university-level course for academically advanced students who have taken the IGCSE Chinese exam and are interested in studying the subject at a more advanced level. All students in this course are expected to take the AS Level Chinese examination at the end of the year; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course, students receive honors credit. The course will be conducted entirely in Chinese and students will use exclusively Chinese in class. Students will perfect their grammar and syntax, including accentuation, as well as incorporate more elevated and sophisticated vocabulary into both the spoken and written language. AS Level Chinese students will have the refined language skills necessary to major in Chinese at the university level, complete a study-abroad program in a Chinese-speaking country, and compete in a globalized marketplace.

**A LEVEL FRENCH**

Two-semester course

Prerequisite: Cambridge French 1-2 and 3-4 and As Level French or comparable transfer courses (3 years) from outside the district

Cambridge International A Level French is a university-level course for academically advanced students who are interested in studying the subject at the most advanced level. Students should have earned an A\*, A, B, or C on the IGCSE French exam and taken the AS Level French exam to enroll in this course. All Students in this course are expected to take the A Level French examination at the end of the year; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course, students receive honors credit. The course will be conducted entirely in French and students will use exclusively French in class. Students will perfect their grammar and syntax, including accentuation, as well as incorporate more elevated and sophisticated vocabulary into both the spoken and written language. A Level French students will have the refined language skills necessary to major in French at the university level, complete a study-abroad program in a francophone country, and compete in a globalized marketplace.



**AS LEVEL FRENCH**

Two-semester course

Prerequisite: Cambridge French 1-2 and 3-4 or comparable transfer courses (2 years) from outside the district

Cambridge International AS Level French is a university-level course for academically advanced students who have taken the IGCSE French exam and are interested in studying the subject at a more advanced level. All students in this course are expected to take the AS Level French examination at the end of the year; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course, students receive honors credit. The course will be conducted entirely in French and students will exclusively French in class. Students will perfect their grammar and syntax, including accentuation, as well as incorporate more elevated and sophisticated vocabulary into both the spoken and written language. AS Level French students will have the refined language skills necessary to major in French at the university level, complete a study-abroad program in a francophone country and compete in a globalized marketplace.

**AS LEVEL JAPANESE**

Two-semester course

Prerequisite: Cambridge Japanese 1-2 and 3-4 or comparable transfer courses (2 years) from outside the district

Cambridge International AS Level Japanese 1-2 is a university-level course for academically advanced students who have taken the IGCSE Japanese exam and are interested in studying the subject at a more advanced level. All students in this course are expected to take the AS Level Japanese examination in October of the following year; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course students receive honors credit. The course will be conducted entirely in Japanese and students will use exclusively Japanese in class. Students will perfect their grammar and syntax, including accentuation, as well as incorporate more elevated and sophisticated vocabulary into both the spoken and written language. AS Level Japanese 1-2 students will have the refined language skills necessary to major in Japanese at the university level, complete a study-abroad program in a Japanese-speaking country, and compete in a globalized marketplace.

**AS LEVEL JAPANESE 3-4**

Two-semester course

Prerequisite: Cambridge Japanese 1-2 and 3-4 and AS Level Japanese 1-2 or comparable transfer courses (3 years) from outside the district

Cambridge International AS Level Japanese 3-4 is a university-level course for academically advanced students who are interested in studying the subject at the most advanced level. Students should have earned an A\*, A, B, or C on the IGCSE Japanese exam and taken the AS Level Japanese exam to enroll in this course. All Students in this course are expected to take the A Level Japanese examination in October; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course, students receive honors, credit. The course will be conducted entirely in Japanese and students will exclusively Japanese in class. Students will perfect their grammar and syntax, including accentuation, as well as incorporate more elevated and sophisticated vocabulary into both the spoken and written language. AS Level Japanese 3-4 students will have the refined language skills necessary to major in Japanese at the university level, complete a study-abroad program in a francophone country, and compete in a globalized marketplace.

**A LEVEL SPANISH**

Two-semester course

Prerequisite: Cambridge French 1-2 and 3-4 and AS Level Spanish or comparable transfer courses (3 years) from outside the district

Cambridge International A Level Spanish is a university-level course for academically advanced students who are interested in studying the subject at the most advanced level. Students should have earned an A\*, A, B, or C on the IGCSE Spanish exam and taken the AS Level Spanish exam to enroll in this course. All students in this course are expected to take the A Level Spanish examination at the end of the year; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course, students receive honors credit. The course will be conducted entirely in Spanish and students will exclusively Spanish in class. Students will perfect their grammar and syntax, including accentuation, as well as incorporate more elevated and sophisticated vocabulary into both the spoken and written language. A Level Spanish students will have the refined language skills necessary to major in Spanish at the university level, complete a study-abroad program in a Spanish-speaking country, and compete in a globalized marketplace.

**AS LEVEL SPANISH**

Two-semester course

Prerequisite: Cambridge Spanish 1-2 and 3-4 or comparable transfer courses (2 Years) from outside the district

Cambridge International AS Level Spanish is a university-level course for academically advanced students who are interested in studying the subject at the most advanced level. Students should have earned an A\*, A, B, or C on the IGCSE Spanish exam and taken the AS Level Spanish exam to enroll in this course. All students in this course are expected to take the A Level Spanish examination at the end of the year; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course, students receive honors credit. The course will be conducted entirely in Spanish and students will exclusively Spanish in class. Students will perfect their grammar and syntax, including accentuation, as well as incorporate more elevated and sophisticated vocabulary into both the spoken and written language. A Level Spanish students will have the refined language skills necessary to major in Spanish at the university level, complete a study-abroad program in a Spanish-speaking country, and compete in a globalized marketplace.

**AS LEVEL SPANISH-FIRST LANGUAGE**

Two-semester course

Prerequisite: Cambridge Spanish for Spanish Speakers 1-2 and 3-4 or comparable transfer courses (2 years) from outside the district

Cambridge International AS Level Spanish-First Language is a university-level course for academically advanced students who have taken the IGCSE Spanish exam and are interested in studying the subject at a more advanced level. All students in this course are expected to take the AS Level Spanish examination at the end of the year; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course, students receive honors credit. The course will be conducted entirely in Spanish and students will use exclusively Spanish in class. Students will perfect their grammar and syntax, including accentuation, as well as incorporate more elevated and sophisticated vocabulary into both the spoken and written language. AS Level Spanish students will have the refined language skills necessary to major in Spanish at the university level, complete a study-abroad program in a Spanish-speaking country, and compete in a globalized marketplace.

**AS LEVEL SPANISH LITERATURE**

Two-semester course

Prerequisite: Cambridge Spanish 1-2 and 3-4 or comparable transfer courses (2 Years) from outside the district

Cambridge International AS Level Spanish Literature is a university-level course for academically advanced students who have taken the IGCSE Spanish exam and are interested in studying the subject at a more advanced level. All students in this course are expected to take the AS Level Spanish Literature examination at the end of the year; depending on their scores, students can earn college credit. Due to the rigorous program of study in the course, students receive honors credit. The course will be conducted entirely in Spanish and students will use exclusively Spanish in class. Students will perfect their grammar and syntax, including accentuation, as well as incorporate more elevated and sophisticated vocabulary into both the spoken and written language. AS Level Spanish Literature students will have the refined language skills necessary to major in Spanish at the university level, complete a study-abroad program in a Spanish-speaking country, and compete in a globalized marketplace.

**CAMBRIDGE CHINESE 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

Chinese 1-2 introduces students to the Chinese (Mandarin) language and to Chinese culture and history. Emphasis is on the basic fundamentals of speaking, listening, reading and writing.

**CAMBRIDGE CHINESE 1-2 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Honors placement or recommendation of Instructor

Chinese 1-2 H is the first year of language within the honors program. This course is designed to give students exceptional proficiency in speaking and understanding the Chinese language.

**CAMBRIDGE CHINESE 3-4**

Two-semester course, grade level 10, 11, 12

Prerequisite: Chinese 1-2

Chinese 3-4 is a continuation of Chinese 1-2 with emphasis on communication in the language. Students will increase their understanding of Chinese culture and modern and traditional society.

**CAMBRIDGE CHINESE 3-4 H**

Two-semester course, grade level 10, 11, 12

Prerequisite: Successful completion of Chinese 1-2 H or recommendation of Instructor

Chinese 3-4 H is the second year of language within the honors program. This course builds on the second year of language and will place emphasis on developing exceptional proficiency in oral expression and knowledge of Chinese culture.

**CHINESE 5-6 H**

Two-semester course, grade level 11, 12

Prerequisite: Successful completion of Chinese 3-4 H or recommendation of Instructor

Chinese 5-6 H will review and enhance what has been learned, emphasizing spoken and written communication. Students will continue to increase their understanding of traditional and modern Chinese culture, arts and literature.

**CHINESE 7-8 H**

Two-semester course, grade level 12

Prerequisite: Successful completion of Chinese 5-6 H or recommendation of Instructor

Chinese 7-8 H will review and expand Chinese language skills with extra emphasis on more formal writing and advanced conversation levels. Students will receive additional exposure to modern and traditional Chinese culture, arts and literature.

**AP CHINESE & LANGUAGE CULTURE**

Two-semester course, grade level 12

Prerequisite: Chinese 5-6 H

This course will prepare students for the AP Chinese language and culture exam. Students will develop advanced skills on formal writing and conversations as well as reading and listening comprehension. Modern and traditional culture, arts and literature will be emphasized.

**CAMBRIDGE FRENCH 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

French 1-2 is designed to give students basic proficiency in reading, writing, speaking and understanding the French language. Audiovisual techniques will be used. Emphasis is on development of oral proficiency and knowledge of Francophone cultures.

**CAMBRIDGE FRENCH 1-2 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Honors Placement or recommendation of Instructor

French 1-2 H is the first year of language within the honors program. This course is designed to give students exceptional proficiency in reading, writing, speaking and understanding the French language. Audiovisual techniques will be used. Emphasis is on development of oral proficiency and knowledge of the French culture. In addition, French 1-2 H will provide students with the necessary preparation to succeed in the French language AP exam.

**CAMBRIDGE FRENCH 3-4**

Two-semester course, grade level 10, 11, 12

Prerequisite: French 1-2

French 3-4, the second year French course, builds on proficiency developed in French 1-2. Emphasis is on development of oral proficiency and knowledge of Francophone cultures.

**CAMBRIDGE FRENCH 3-4 INCLUSION**

Two-semester course, grade level 10, 11, 12

Prerequisite: French 1-2

French 3-4, the second year French course, builds on proficiency developed in French 1-2. Emphasis is on development of oral proficiency and knowledge of Francophone cultures.

**CAMBRIDGE FRENCH 3-4 H**

Two-semester course, grade level 10, 11, 12

Prerequisite: Successful completion of French 1-2 H or recommendation of Instructor

French 3-4 H is the second year of language within the honors program. This course is designed to build on the proficiency developed in 1-2 H. French 3-4 H will place emphasis on developing exceptional proficiency in oral expression and knowledge of the French culture. In addition, French 3-4 H will provide students with the necessary preparation to succeed in the French language AP exam.

**CAMBRIDGE JAPANESE 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

Japanese 1-2 is an introductory level course for students who wish to begin their study of the Japanese language. Emphasis is on the basic fundamentals of speaking, listening, reading and writing in the target language. The students will be expected to memorize Hiragana (51 phonetic symbols for Japanese words), Katakana (51 phonetic symbols for foreign words used by the Japanese) and approximately 20 Kanji characters (symbols of Chinese origin which depict the Japanese vocabulary). Students will also be given an introduction into Japanese culture and modern Japanese society.

**CAMBRIDGE JAPANESE 1-2 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Honors placement or recommendation of Instructor

Japanese 1-2 H is the first year of language within the honors program. This course is designed to give students exceptional proficiency in speaking and understanding of the Japanese language.

**CAMBRIDGE JAPANESE 3-4**

Two-semester course, grade level 10, 11, 12

Prerequisite: Japanese 1-2

Japanese 3-4, the second-year Japanese course, is a continuation of Japanese 1-2 with more emphasis on communication in the target language. Students will be expected to memorize an additional 120 Kanji characters and increase understanding of Japanese culture and modern and traditional Japanese society.

**CAMBRIDGE JAPANESE 3-4 H**

Two-semester course, grade level 10, 11, 12

Prerequisite: Successful completion of Japanese 1-2 H or recommendation of Instructor

Japanese 3-4 H is a continuation of Japanese 1-2 H. The course builds on the second year of language within the Honors program and will place emphasis on developing proficiency in oral expression and knowledge of the Japanese language.

**JAPANESE 5-6 H**

Two-semester course, grade level 11, 12

Prerequisite: Japanese 3-4

Japanese 5-6 H, the third-year Japanese course, will review and enhance what has been learned in Japanese 1-2 and 3-4 with an emphasis on spoken and written communication in the target language. Students will learn an additional 240 Kanji characters and increase their understanding of traditional and modern Japanese culture as well as deep culture that is directly related to daily living of the Japanese people.

**JAPANESE 7-8 H**

Two-semester course, grade level 12

Prerequisite: Japanese 5-6 H

Japanese 7-8 H, the fourth-year Japanese course, will review and expand Japanese language skills with the extra emphasis on formal, literary style of writing and colloquial Japanese conversation levels. Students will continue to learn additional Kanji characters as well as receiving more exposure to modern and traditional Japanese culture and life style.

**AP JAPANESE & LANGUAGE CULTURE**

Two-semester course, grade level 12

Prerequisite: Japanese 5-6

This course will prepare students for the AP Japanese language and culture exam. Students will develop advanced listening, speaking, reading and writing skills following the advanced placement curriculum. Modern and traditional culture and lifestyle will be emphasized.

**LATIN 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

Latin 1-2 aims to teach forms and principles of elementary Latin and prepare students for advanced study. The study of Latin helps students develop a vocabulary which can be used in professional vocations as well as understand the derivation of words. Emphasis is placed on history and cultures of ancient Rome.

**LATIN 1-2 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Honors placement or recommendation of Instructor

Latin 1-2 H is the first year of language within the honors program. This course is designed to give students exceptional proficiency in speaking and understanding Latin.

**LATIN 3-4**

Two-semester course, grade level 10, 11, 12

Prerequisite: Latin 1-2

Latin 3-4 continues the basic structure of Latin wherein students will begin to read advanced Latin prose. The course continues to emphasize English word derivatives and the use of specialized Latin in law, medicine and other professions. In addition students will further their study of the culture of the Greco-Roman world as it relates to modern societies.

**LATIN 3-4 H**

Two-semester course, grade level 10, 11, 12

Prerequisite: Successful completion of Latin 1-2 H or recommendation of Instructor

Latin 3-4 H is the second year of language within the honors program and builds on the study of Latin.

**LATIN 5-6 H**

Two-semester course, grade level 11, 12

Prerequisite: Latin 3-4

Latin 5-6 H, the third-year Latin course, expands language skills by continuing the study of a wide variety of literary texts. Emphasis is placed on history and culture of ancient Rome.

**LATIN 7-8 H**

Two-semester course, grade level 12

Prerequisite: Latin 5-6 H

Latin 7-8 H, the fourth-year Latin course, expands language skills by analysis and study of the literature of ancient Rome. It continues to explore the influence of Latin on English and the Romance Languages and to develop students' English vocabulary skills.

**CAMBRIDGE SPANISH 1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

Spanish 1-2 emphasizes oral proficiency. Emphasis is placed on the fundamentals of speaking and understanding basic Spanish. Reading about and discussing contemporary life in the Spanish-speaking world is a part of each lesson.

**CAMBRIDGE SPANISH 1-2 INCLUSION**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: None

Spanish 1-2 emphasizes oral proficiency. Emphasis is placed on the fundamentals of speaking and understanding basic Spanish. Reading about and discussing contemporary life in the Spanish-speaking world is a part of each lesson.

**CAMBRIDGE SPANISH 1-2 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Honors Placement or recommendation of Instructor

Spanish 1-2 H is the first year of language within the honors program. This course is designed to give students exceptional proficiency in speaking and understanding the Spanish language. Reading and discussing contemporary life in the Spanish-speaking world is an integral part of each lesson. In addition, Spanish 1-2 H will provide students with the necessary preparation to succeed in the Spanish language AP exam.

**CAMBRIDGE SPANISH 3-4**

Two-semester course, grade level 10, 11, 12

Prerequisite: Spanish 1-2

Spanish 3-4, the second year Spanish course, is a continuation of Spanish 1-2. Multimedia materials are used to bring to the student the cultural aspects of the Spanish-speaking world. Students develop oral proficiency as well as reading and writing skills.

**CAMBRIDGE SPANISH 3-4 INCLUSION**

Two-semester course, grade level 10, 11, 12

Prerequisite: Spanish 1-2

Spanish 3-4, the second year Spanish course, is a continuation of Spanish 1-2. Multimedia materials are used to bring to the student the cultural aspects of the Spanish-speaking world. Students develop oral proficiency as well as reading and writing skills.

**CAMBRIDGE SPANISH 3-4 H**

Two-semester course, grade level 10, 11, 12 Prerequisite: Spanish 1-2 H or recommendation of Instructor

Spanish 3-4 H is the second year of language within the honors program. This course builds on the second year of language within the honors program. Spanish 3-4 H will place emphasis on developing exceptional proficiency in oral expression and knowledge of the Spanish culture. In addition, Spanish 3-4 H will provide students with the necessary preparation to succeed in the Spanish language AP exam.

**CAMBRIDGE SPANISH FOR SPANISH SPEAKERS****1-2**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Spanish speaker or 7 Minute Spanish Reading Placement Test Scores.

Spanish for Spanish Speakers 1-2 is the first year of language study for Spanish-speaking students. This is a year-long program designed to help speakers of Spanish who have received all or most of their schooling in English to access the Spanish for Spanish Speakers curriculum. The course builds literacy skills through purposeful and relevant language activities and assists students in transferring their reading and writing skills from English to Spanish. Students will engage in the writing process, free reading, journal writing and other activities which complement the instruction they receive in English courses.

**CAMBRIDGE SPANISH FOR SPANISH SPEAKERS****1-2 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Spanish speaker or 7 Minute Spanish Reading Placement Test Scores.

Spanish for Spanish Speakers 1-2 Honors is the first year of language study for Spanish-speaking students. Emphasis will be placed on initial advanced placement language and literature elements in order to prepare students for the AP exams in addition to the Spanish for Spanish Speakers 1-2 curriculum. This is a year-long program designed to help speakers of Spanish who have received all or most of their schooling in English to access the Spanish for Spanish Speakers curriculum.

**SPANISH FOR SPANISH SPEAKERS 3-4**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Spanish speaker, Spanish for Spanish Speakers 1-2, or 7 Minute Spanish Reading Placement Test Scores.

Spanish for Spanish Speakers 3-4 is the second year of language study for Spanish-speaking students. This course reinforces literacy concepts and skills learned in the first-year course and provides Spanish-speaking students opportunities to improve their listening, speaking, reading and writing skills. Course content will include literature-based units combined with grammar, reading and writing activities for personal and academic purposes.

**CAMBRIDGE SPANISH FOR SPANISH SPEAKERS****3-4 H**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Spanish speaker, Spanish Speakers 1-2, or Spanish Speakers 1-2H

Students may start at this level only with appropriate 7 Minute Spanish Reading Placement Test Scores.

Emphasis will be placed on advanced placement language and literature elements in order to prepare students for the AP exams. This course reinforces literacy concepts and skills learned in the first year course and provides Spanish-speaking students opportunities to improve their listening, speaking, reading and writing skills. Course content will include literature-based units combined with grammar, reading and writing activities for personal and academic purposes.

**GENERAL ELECTIVES****SEMINAR FOR EXCELLENCE 1-2**

Two-semester course, grade level 9

Prerequisite: None

The Seminar for Excellence will provide an opportunity to teach skills necessary for academic and social success. Areas addressed in this course include study and inquiry skills, human relations, ethics, character education, conflict resolution, multi-cultural awareness and prejudice reduction skills.

**HONORS SEMINAR 1-2 H****FUTURE PROBLEM SOLVING**

Two-semester course, grade level 9

Prerequisite: None

This course is designed to provide a series of opportunities to allow gifted and talented students in their first year to further independent studies in already existing disciplines.



# CESAR CHAVEZ

## High School

3921 West Baseline Road  
Laveen, Arizona 85339  
(602) 764-4000 • [www.ChavezHS.org](http://www.ChavezHS.org)



Opened in 1999, Cesar Chavez is a large comprehensive high school in Laveen. Our highly educated and committed staff serves a diverse population of students with a wide variety of programs. We offer solid academics, with one of the largest and most successful Advanced Placement programs in the district, allowing students to earn college credit in thirteen different courses in five content areas. We also provide a variety of innovative approaches to success on the AIMS test, as well as in college and the work force. We have established an excellent tutoring program and are supporting the success of our 9th graders with our new Freshman House program. AVID is an important component of student success and is implemented school wide. Our students participate in a wide range of sports, clubs, and electives, including excellent programs in the fine arts, the performing arts, and JROTC. A student who is educated at Cesar Chavez gains a solid foundation in reading, writing, and math, as well as a thorough grounding in the technology necessary to success in the 21st century. Our robotics team recently travelled to the White House to meet President Obama; this is just one example of the rich and varied opportunities available on to students on our campus.

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## **SOCIAL STUDIES**

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### **AP EUROPEAN HISTORY**

Two-semester course, grade level 12  
Prerequisite: Instructor recommendation

This course covers European History from approximately 1450 to 2001 and introduces students to cultural, economic, political and social developments that played a fundamental role in shaping the European continent and subsequently, the rest of the world. In addition to providing a basic overview of events and movements, the goals of the class are to develop an understanding of some of the principle themes in modern European history, an ability to analyze historical evidence, and an ability to express historical understanding in writing. The “themes” of the course can include intellectual and cultural history, political and diplomatic history and social and economic history.

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## **WORLD LANGUAGE**

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### **AP FRENCH LANGUAGE**

Two-semester course, grade level 12  
Prerequisite: Instructor recommendation

The objectives of the AP French Language class are to foster an abiding appreciation of the French language and Francophone culture, as well as to prepare students to take the AP French Language exam at the end of the school year.

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## **GENERAL ELECTIVES**

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### **PEER LEADERSHIP 1-2**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Permission of Instructor

The Peer Leadership Course at Cesar Chavez is taught using the **Elevate Phoenix** curriculum. This course provides opportunities for young adults to increase their leadership skills. Areas addressed in this course include leadership skills, communication, thinking, conflict management, coping, and healthy relationship skills, as well as teamwork and cooperation. The first semester focuses on skill development and the second semester provides opportunities for students to use the skills they have developed. Students may participate in leadership projects on campus or do outreach in the elementary schools or community.

# DESIDERATA

## Program

2920 North 34th Drive  
Phoenix, Arizona 85004  
(602) 764-0800 • [www.DesiderataProgram.org](http://www.DesiderataProgram.org)



Desiderata serves Special Education students with needs that are more effectively addressed in a small school environment. Students are referred to Desiderata by their home school campuses. The Desiderata program emphasizes academic achievements as well as the social, emotional and behavioral growth of students. All students are taught District curriculum which meets State of Arizona Standards. Classroom activities stress student acquisition of literacy skills. Desiderata, named after the poem by Max Ehrmann, is housed in a 30,000-square foot facility, that opened in 2006. Designed to be functional and supportive, it has 11 classrooms, library, fitness center, cafetorium, group therapy room, an instructional kitchen, assistive technology and an outdoor recreational area.

# BETTY H. FAIRFAX

## High School

8225 South 59th Avenue  
Laveen, Arizona 85339  
(602) 764-9000 • [www.BettyFairfaxHS.org](http://www.BettyFairfaxHS.org)



Betty H. Fairfax High School is Phoenix Union's newest comprehensive high school, having opened in 2007, and graduating its first senior class in Spring 2011. Named after a Phoenix educator who inspired and motivated students over a 57-year career, the school has followed in her footsteps, building a foundation of excellence. Fairfax is committed to facilitating college-level skill development and access to college preparatory courses for all students. In fact, Fairfax was accepted as an International Baccalaureate World School, and will offer IB courses in 2011. This internationally-acclaimed, rigorous program will have a positive impact on almost every student, teacher and course at Fairfax, and enhance its concerted effort to move students into post-secondary education. The school, which has won numerous awards for its functional, efficient and eye-catching design, is also attractive to students who are making full use of all its facilities, from its outstanding library, technology, auditorium, gymnasiums and athletic fields. Extracurricular participation is a hallmark of the school, and the number of actively involved students has given Fairfax a reputation for excellence in several areas, including JROTC, music and athletics. In only its second year of varsity sports, Fairfax won a state championship in boys basketball. A strong character foundation, building a strong relationship with school and being challenged with high academic rigor are cornerstones in the successful tradition building at Betty Fairfax High School.



# ENGLISH

## ENGLISH 5-6 IB

Two-semester course, grade level 11  
Prerequisite: English 3-4 IB

This is the third course in the four-level IB English track. Students will write two World Literature papers and make an oral presentation which will be assessed by the International Baccalaureate Organization.

## ENGLISH 7-8 IB

Two-semester course, grade level 12  
Prerequisite: English 5-6 IB

This is the fourth course in the four-level IB English track. Students will prepare for the IB English examination in May.

# MATHEMATICS

## ALGEBRA 1-2 IB PREP

Two-semester course, grade level 9  
Prerequisite: Admittance to the North High School IB Program

This is the first course in the five-level IB mathematics track.

## ALGEBRA 3-4 IB PREP

Two-semester course, grade level 10, 11

Prerequisite: Accelerated Algebra/Geometry 1-2 IB

## GEOMETRY 1-2 IB PREP

Two-semester course, grade level 9, 10  
Prerequisite: Algebra 1-2 IB

This is the second course in the five-level IB mathematics sequence.

## ECONOMICS/HONORS IB PREP

Two-semester course, grade level 12

Prerequisite: US / Arizona History 1-2 IB

## MATH HL 1-2 IB

Two-semester course, grade level 11  
Prerequisite: Pre-Calculus Honors with grade C or better

## MATH HL 3-4 IB

Two-semester course, grade level 11  
Prerequisite: Math HL 1-2 IB

Two-year sequence. This course caters to students who have demonstrated a strong aptitude for learning and applying mathematical concepts. These students will be expected to have a solid mathematical background in preparation to enter future studies with a strong math component, either as a subject outright or in fields such as engineering, physics and technology. The intention of the course is to introduce students to a variety of Calculus and post-Calculus topics (Statistics and Probability) with a focus on mathematical rigor. In this course students will be expected to draw on their prior mathematical foundation as they will experience fully integrated mathematics combining their knowledge from past and present courses to solve more complex mathematical problems. The internally assessed component, the portfolio, offers students the opportunity to demonstrate independence in their ability to investigate and model mathematics. The portfolio also allows students to work without the time constraints of a written examination and to develop skills they need for communicating rigorous mathematical ideas. At the end of the second year, students sit for the IB math Studies Exam, which covers the entire two-year course. To earn the IB Diploma, the IB Math Studies exam counts as 80% of their IB Math Studies grade, while the student's personal research paper counts as 20%. This grade is separate from the Betty H. Fairfax High School IB Math Studies course grade, which depends only on the work performed throughout the year. It is possible for a student to pass the course and fail the written exam. A graphing calculator is required: the TI-nspire or the TI-84.

## MATH SL 1-2 IB

Two-semester course, grade level 11  
Prerequisite: Algebra 3-4 Honors with grade C or better

## MATH SL 3-4 IB

Two-semester course, grade level 11  
Prerequisite: Math SL 1-2 IB

Two-year sequence. This course caters to students who have demonstrated a strong aptitude for learning and applying mathematical concepts. These students will be expected to have a solid mathematical background in preparation to enter future studies with a strong math component, either as a subject outright or in fields such as engineering, physics and technology. The intention of the course is to introduce students to a variety of Calculus and post-Calculus topics (Statistics and Probability) with a focus on mathematical rigor. In this course students will be expected to draw on their prior mathematical foundation as they will experience fully integrated mathematics combining their knowledge from past and present courses to solve more complex mathematical problems. The internally assessed component, the portfolio, offers students the opportunity to demonstrate independence in their ability to investigate a model mathematics. The portfolio also allows students to work without the time constraints of a written examination and to develop skills they need for communicating rigorous mathematical ideas. At the end of the second year, students sit for the IB math Studies Exam, which covers the entire two-year course. To earn the IB Diploma, the IB Math Studies exam counts as 80% of their IB Math Studies grade, while the student's personal research paper counts as 20%. This grade is separate from the Betty H. Fairfax High School IB Math Studies course grade, which depends only on the work performed throughout the year. It is possible for a student to pass the course and fail the written exam. A graphing calculator is required: the TI-nspire or the TI-84.

## MATHEMATICAL STUDIES 1-2 IB

Two-semester course, grade level 11  
Prerequisite: Algebra 1-2 and Geometry 1-2 with grade C or better

## MATHEMATICAL STUDIES 3-4 IB

Two-semester course, grade level 12  
Prerequisite: Mathematical Studies 1-2 IB

Two-year sequence. This course caters to students who have demonstrated a strong aptitude for learning and applying mathematical concepts. These students will be expected to have a solid mathematical background in preparation to enter future studies with a strong math component, either as a subject outright or in fields such as engineering, physics and technology. The intention of the course is to introduce students to a variety of Calculus and post-Calculus topics (Statistics and Probability) with a focus on mathematical rigor. In this course students will be expected to draw on their prior mathematical foundation as they will experience fully integrated mathematics combining their knowledge from past and present courses to solve more complex mathematical problems. The internally assessed component, the portfolio, offers students the opportunity to demonstrate independence in their ability to investigate a model mathematics. The portfolio also allows students to work without the time constraints of a written examination and to develop skills they need for communicating rigorous mathematical ideas. At the end of the second year, students sit for the IB math Studies Exam, which covers the entire two-year course. To earn the IB Diploma, the IB Math Studies exam counts as 80% of their IB Math Studies grade, while the student's personal research paper counts as 20%. This grade is separate from the Betty H. Fairfax High School IB Math Studies course grade, which depends only on the work performed throughout the year. It is possible for a student to pass the course and fail the written exam. A graphing calculator is required: the TI-nspire or the TI-84.

Placement Recommendation	Recommended for Algebra	Passed AQT in 8 <sup>th</sup> grade or recommended for Algebra 1-2 Honors	Passed AQT in 7 <sup>th</sup> grade and GQT in 8 <sup>th</sup> grade
9 <sup>th</sup> grade	Algebra 1-2	Algebra 1-2 H and Geometry 1-2 H	Geometry 1-2 H and or Algebra 3-4 Honors
10 <sup>th</sup> grade	Geometry 1-2	Algebra 3-4 and AP Statistics	Pre-Calculus 1-2 H and AP Statistics
11 <sup>th</sup> grade	IB Math studies 1-2 (satisfies Algebra 3-4 requirement)	IB Math SL 1-2 or IB Math HL 1-2 *	IB Math SL 1-2 or IB Math HL 1-2 *
12 <sup>th</sup> grade	IB Math studies 3-4	IB Math SL 3-4 or IB Math HL 3-4 *	IB Math SL 3-4 or IB Math HL 3-4 *

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## OTHER IB COURSES

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### FILM 1-2 IB

Two-semester course, grade level 11, 12  
Prerequisite: None

This film course combines several different classes into one by developing film historical and production knowledge, analytical and technical skills. Students will develop an understanding of the art of film by learning its history (with an emphasis on international studies), genres and theories as well as applying styles and techniques learned to their own film productions. Students may be expected to pay a lab fee for this class.

### FILM IB 3-4

Two-semester course, grade level 11, 12  
Prerequisite: None

This film course combines several classes into one by developing film historical and production knowledge, analytical and technical skills. Students will develop an understanding of the art of film by learning its history (with an emphasis on international studies), genres and theories as well as applying styles and techniques learned to their own film productions. *Students may be expected to pay a lab fee for this class.*

*\* IB Film 1-2 is a prerequisite for IB Film 3-4, which will be offered 2012-2013 School year. Students seeking an IB Diploma will also need to complete IB Film 3-4 and external assessments.*

### THEORY OF KNOWLEDGE 1-2 IB

Two-semester course, grade level 11  
Prerequisite: Admittance to the Betty Fairfax High School IB Program

Theory of Knowledge (TOK) is a flagship course in the IB Diploma Program and is a requirement for all North High School IB students. TOK challenges students and their teachers to reflect critically on diverse ways of knowing and areas of knowledge. Students complete a TOK essay (from the IB prescribed yearly title list) that is assessed by the International Baccalaureate Organization. Additional students must prepare an individual or group presentation that must focus on a contemporary issue where students apply TOK principles or concepts.

### THEORY OF KNOWLEDGE 3-4 IB

Two-semester course, grade level 12  
Prerequisite: Theory of Knowledge 1-2 IB

This course will include further study of IB Theory of Knowledge (TOK) core requirements: knowledge issues, knowers and knowing; ways of knowing; areas of knowledge; and linking questions. (These issues are embedded in all semesters of TOK.) The main goals of this course will be to support students on the completion of the Creativity, Action, and Service requirements with special emphasis on connection of CAS activities with students' IB program courses. This course will include a series of experiences including, but not limited to, participation in group discussion, guest speaker presentations, internships, field trips, and development of leadership skills, career and vocational exploration. These opportunities will allow pursuits across interdisciplinary lines and/or greater depth in existing disciplines.

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## PERFORMING ARTS

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### SL MUSIC 1-2 IB

Two-semester course, grade level 11, 12  
Prerequisite: Instructor approval

The majority of the class time will be used in rehearsal of technique material and music to teach and reinforce music fundamentals, and in the study of music history, theory, and analysis as laid out by the standards set forth through the state of Arizona and Phoenix Union High School District. Musical knowledge and skills will be demonstrated in solo, ensemble, and large group performances.

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## SCIENCE

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### BIOLOGY 1-2 IB PREP

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: Physical Science or meets placement criteria  
Students must have taken Biology 1 to be enrolled in Biology 2.  
Meets PUHSD and Arizona Science Standards graduation requirement  
Meets laboratory science admission requirement of Arizona universities

Biology 1-2 is a laboratory science course designed to meet the Arizona and national standards for the inquiry process, history and nature of science, science in personal and social perspectives, and life science. Students of Biology 1-2, will engage in scientific inquiry to uncover concepts related to cellular processes, interdependence of organisms and the environmental system, genetics, and the molecular basis of heredity, and the scientific principles and processes involved in biological evolution. Students who previously received credit for Biology 1-2 H may not receive credit for Biology 1-2. Biology 1-2 should be successfully completed by the end of the sophomore year.

### BIOLOGY 3-4 IB

Two-semester course, grade level 11  
Prerequisite: Biology 1-2

Biology 3-4 IB is a junior year course of study which covers units in basic biochemistry, cell structure and function, genetic patterns of inheritance, plant form and function evolution, ecology, animal physiology and the international nature of science.

### BIOLOGY 5-6 IB

Two-semester course, grade level 12  
Prerequisite: Biology 3-4 IB

Biology 5-6 IB is a senior year course of study that reinforces concepts covered in Biology 3-4 IB. Unites include basic biochemistry, cell structure and function, genetic patterns of inheritance, plant form and function evolution, ecology, animal physiology and the international nature of science.

### CHEMISTRY 1-2 IB PREP

Two-semester course, grade level 10, 11, 12  
Prerequisite: Geometry 1-2 IB or Accelerated Algebra/Geometry 1-2 IB, Biology 1-2 IB  
Meets PUHSD and Arizona Science Standards graduation requirement  
Meets laboratory science admission requirement of Arizona universities

Chemistry 1-2 H is a laboratory science course designed for students who wish to pursue a more challenging and quantitative approach to chemistry. The student will learn about matter, energy and the composition of the universe. The major instructional areas are: identifying consistencies in experimental data, structure of matter as a key to chemical and physical properties, mole concept, energy changes in matter, conservation of energy, equilibrium systems and stoichiometric relationships. Laboratory work and the scientific method are emphasized. Research papers and individual laboratory research may be required. This course is the first in the IB Chemistry program at Betty Fairfax High.

### CHEMISTRY 3-4 IB

Two-semester course, grade level 11  
Prerequisite: Chemistry 1-2 IB

International Baccalaureate Chemistry is taken in the junior and senior year as a Chemistry 3-4 IB and Chemistry 5-6 IB. Topics include: Stoichiometry, Atomic Theory, Chemical Bonding, States of Matter, Carbon Chemistry, and the Periodic Table. The second year of honors level Chemistry goes on to emphasize carbon chemistry, biochemistry and environmental chemistry. A three-hour IB exam is taken at the end of the SL Chemistry course. The IB Internal Assessment for this course includes formal lab reports, informal lab notebook excerpts, and participation in the IB Group 4 Project. Summer assignments may be required.

## CHEMISTRY 5-6 IB

Two-semester course, grade level 112  
Prerequisite: Chemistry 3-4 IB

International Baccalaureate Chemistry is taken in the junior and senior year as a Chemistry 3-4 IB and Chemistry 5-6 IB. Topics include: Stoichiometry, Atomic Theory, Chemical Bonding, States of Matter, Carbon Chemistry, and the Periodic Table. The second year of honors level Chemistry goes on to emphasize carbon chemistry, biochemistry and environmental chemistry. A three-hour IB exam is taken at the end of the SL Chemistry course. The IB Internal Assessment for this course includes formal lab reports, informal lab notebook excerpts, and participation in the IB Group 4 Project. Summer assignments may be required.

## FOUNDATIONS OF SCIENTIFIC INQUIRY 1-2 IB

Two-semester course, grade level 9  
Prerequisite: None

Core course objectives include: observation and measurement, development of research questions, experimental design, data collection and analysis, problem-solving (including reading for specific information), and written and oral communication in a scientific context. In addition, it is a survey course highlighting the most influential concepts of the past 400 years of endeavor. Examples from fundamental concepts of biology, chemistry, and physics will be used as a substrate for the development of these ideas.

## PHYSICS 1-2 IB PREP

Two-semester course, grade level 10, 11, 12  
Prerequisite: Geometry 1-2 IB or Accelerated Algebra/Geometry 1-2 IB, Biology 1-2 IB

Students must pass Physics 1 with a D or better to advance to Physics 2.

Concurrent or Prerequisite: Algebra 3-4

Meets PUHSD and Arizona Science Standards graduation requirement

Meets laboratory science admission requirement of Arizona universities

Physics 1-2 is a laboratory science course designed for students who may go on to college. Topics include: motion, forces, energy, waves, light, electricity, magnetism, radioactivity, mechanical energy, nuclear physics and alternative energy sources. Major concepts are introduced through laboratory experiences. This course is the first in the IB Physics program at Betty Fairfax High.

## PHYSICS 3-4 IB

Two-semester course, grade level 11  
Prerequisite: Physics 1-2

The core of Physics IB consists of a study of six topics: (1) Physics and physical measurement, (2) Mechanics, (3) Thermal physics, (4) Waves, (5) Electricity and magnetism, (6) Atomic and nuclear physics, (7) Measurement and uncertainties, (8) Mechanics, (9) Thermal physics and wave phenomena, (10) Electromagnetism, (11) Quantum physics and nuclear physics.

## PHYSICS 5-6 IB

Two-semester course, grade level 12  
Prerequisite: Physics 3-4 IB

The core of Physics IB consists of a study of six topics: (1) Physics and physical measurement, (2) Mechanics, (3) Thermal physics, (4) Waves, (5) Electricity and magnetism, (6) Atomic and nuclear physics, (7) Measurement and uncertainties, (8) Mechanics, (9) Thermal physics and wave phenomena, (10) Electromagnetism, (11) Quantum physics and nuclear physics.

## SOCIAL STUDIES

### GOVERNMENT/HONORS IB PREP

Two-semester course, grade level 12

### HISTORY OF THE AMERICAS 1-2 IB

Two-semester course, grade level 11  
Prerequisite: None

This is the third of four courses in the IB "Individuals and Society" track which prepares students for IB examinations. Students successfully completing this course will be classified as having passed the state essential competencies covered in US/Arizona History 1-2 and US/Arizona History 1-2 Honors.

### HISTORY ROUTE 2: 3-4 IB

Two-semester course, grade level 12  
Prerequisite: Economics 1 or AP Macroeconomics and Government 1 or AP Government and Politics

This fourth year senior level history course offers a deeper study of the history of America and prepares students for the "Individual and Society" IB track exam.

### IB PREP WORLD HISTORY/ HONORS

Two-semester course, grade level 9  
Prerequisite: Admittance to the North High School IB Program

This is the first of four courses in the IB "Individuals and Society" track which prepares students for IB examinations. Students successfully completing this course will be classified as having passed the state essential competencies covered in World History / Geography.

## WORLD LANGUAGES

### FRENCH 1-2 IB PREP

Two-semester course, grade level 9  
Prerequisite: Admittance to the North High School IB Program

This is a first year course in French which has been designed to prepare students for IB French examinations.

### FRENCH 1-2 HONORS IB PREP

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: Honors Placement or recommendation of Instructor

French 1-2 H is the first year of language within the honors program. This course is designed to give students exceptional proficiency in reading, writing, speaking and understanding the French language. Audiovisual techniques will be used. Emphasis is on development of oral proficiency and knowledge of the French culture. In addition, French 1-2 H will provide students with the necessary preparation to succeed in the French language AP exam.

### FRENCH 3-4 IB PREP

Two-semester course, grade level 10  
Prerequisite: French 1-2 IB

This is a second year course in French which has been designed to prepare students for IB French examinations.

### FRENCH 3-4 HONORS IB PREP

Two-semester course, grade level 10, 11, 12  
Prerequisite: Successful completion of French 1-2 H or recommendation of Instructor

French 3-4 H is the second year of language within the honors program. This course is designed to build on the proficiency developed in 1-2 H. French 3-4 H will place emphasis on developing exceptional proficiency in oral expression and knowledge of the French culture. In addition, French 3-4 H will provide students with the necessary preparation to succeed in the French language AP exam.



**FRENCH 5-6 IB**

Two-semester course, grade level 11, 12

Prerequisite: Successful completion of French 3-4 H or recommendation of Instructor

French 5-6 H, the third year French honors course, will be mainly conducted in French but never to a point where a student understanding of the basic ideas is impaired. Emphasis is on development of oral proficiency and knowledge of Francophone cultures.

**FRENCH 7-8 IB**

Two-semester course, grade level 12

Prerequisite: Successful completion of French 5-6 H or recommendation of Instructor

French 7-8 H, the fourth year French honors course, will be principally conducted in French. Plays, novels and poetry are presented for study and enjoyment. Emphasis is on development of oral proficiency and knowledge of Francophone cultures.

**LATIN 1-2 IB PREP**

Two-semester course, grade level 10, 11, 12

Prerequisite: Spanish 3-4 H

Spanish 5-6 H, the third year Spanish honors course, gives students extensive experience in speaking Spanish. It introduces the student to Hispanic Literature and develops the use of the Spanish idiom as spoken by the native speaker.

**LATIN 3-4 IB PREP**

Two-semester course, grade level 10, 11, 12

Prerequisite: Spanish 3-4 H

Latin 3-4 continues the basic structure of Latin wherein students will begin to read advanced Latin prose. The course continues to emphasize English word derivation and the use of specialized Latin in law, medicine and other professions. In addition students will further their study of the culture of the Greco-Roman world as it relates to modern societies.

**SPANISH 1-2 IB PREP**

Two-semester course, grade level 9

Prerequisite: Admittance to the North High School IB Program

This is a first year course in Spanish which has been designed to prepare students for IB examinations.

**SPANISH 1-2 HONORS IB PREP**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Honors Placement or recommendation of Instructor

Spanish 1-2 H is the first year of language within the honors program. This course is designed to give students exceptional proficiency in speaking and understanding the Spanish language. Reading and discussing contemporary life in the Spanish-speaking world is an integral part of each lesson. In addition, Spanish 1-2 H will provide students with the necessary preparation to succeed in the Spanish language AP exam.

**SPANISH 3-4 IB PREP**

Two-semester course, grade level 10

Prerequisite: Spanish 1-2 IB

This is a second year course in Spanish which has been designed to prepare students for IB examinations.

**SPANISH 3-4 HONORS IB PREP**

Two-semester course, grade level 10, 11, 12

Prerequisite: Spanish 1-2 H or recommendation of Instructor

Spanish 3-4 H is the second year of language within the honors program. This course builds on the second year of language within the honors program. Spanish 3-4 H will place emphasis on developing exceptional proficiency in oral expression and knowledge of the Spanish culture. In addition, Spanish 3-4 H will provide students with the necessary preparation to succeed in the Spanish language AP exam.

**SPANISH 5-6 IB**

Two-semester course, grade level 10, 11, 12

Prerequisite: Spanish 3-4 H

Spanish 5-6 H, the third year Spanish honors course, gives students extensive experience in speaking Spanish. It introduces the student to Hispanic Literature and develops the use of the Spanish idiom as spoken by the native speaker.

**SPANISH 7-8 IB**

Two-semester course, grade level 11, 12

Prerequisite: Spanish 5-6 H

Spanish 7-8 H, the fourth year of honors Spanish, is an in-depth program integrating reading, writing, speaking and listening in Spanish. The materials are adapted to the ability and interest of the students. Emphasis is on development of oral proficiency and knowledge of Hispanic cultures.

**SPANISH FOR SPANISH SPEAKERS 1-2 IB PREP**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Spanish speaker or 7 Minute Spanish Reading Placement Test Scores.

Spanish for Spanish Speakers 1-2 is the first year of language study for Spanish-speaking students. This is a year-long program designed to help speakers of Spanish who have received all or most of their schooling in English to access the Spanish for Spanish Speakers curriculum. The course builds literacy skills through purposeful and relevant language activities and assists students in transferring their reading and writing skills from English to Spanish. Students will engage in the writing process, free reading, journal writing and other activities which complement the instruction they receive in English courses.

**SPANISH FOR SPANISH SPEAKERS 1-2 HONORS IB PREP**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Spanish speaker or 7 Minute Spanish Reading Placement Test Scores.

Spanish for Spanish Speakers 1-2 Honors is the first year of language study for Spanish-speaking students. Emphasis will be placed on initial advanced placement language and literature elements in order to prepare students for the AP exams in addition to the Spanish for Spanish Speakers 1-2 curriculum. This is a year-long program designed to help speakers of Spanish who have received all or most of their schooling in English to access the Spanish for Spanish Speakers curriculum.

**SPANISH FOR SPANISH SPEAKERS 3-4 IB PREP**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Spanish speaker, Spanish for Spanish Speakers 1-2, or 7 Minute Spanish Reading Placement Test Scores.

Spanish for Spanish Speakers 3-4 is the second year of language study for Spanish-speaking students. This course reinforces literacy concepts and skills learned in the first-year course and provides Spanish-speaking students opportunities to improve their listening, speaking, reading and writing skills. Course content will include literature-based units combined with grammar, reading and writing activities for personal and academic purposes.

**SPANISH FOR SPANISH SPEAKERS 3-4 HONORS IB PREP**

Two-semester course, grade level 9, 10, 11, 12

Prerequisite: Spanish speaker, Spanish Speakers 1-2, or Spanish Speakers 1-2H. Students may start at this level only with appropriate 7 Minute Spanish Reading Placement Test Scores.

Emphasis will be placed on advanced placement language and literature elements in order to prepare students for the AP exams. This course reinforces literacy concepts and skills learned in the first year course and provides Spanish-speaking students opportunities to improve their listening, speaking, reading and writing skills. Course content will include literature-based units combined with grammar, reading and writing activities for personal and academic purposes.



# FRANKLIN

## Police & Fire High School

1645 West McDowell Road  
Phoenix, Arizona 85007  
(602) 764-0200 • [www.FranklinPoliceAndFire.org](http://www.FranklinPoliceAndFire.org)

FRANKLIN



### MISSION

“Preparing Every Student for Success in College, Career and Life”

Franklin Police & Fire High School provides a rigorous and disciplined physical and academic college prep high school education. Students attending Franklin come to prepare for careers in Law Enforcement and/or Firefighting/EMS. Additionally, all of our students are expected to go to College and become Leaders.

## CAREER AND TECHNICAL EDUCATION

### FIRE FIGHTING / EMS 1-2

Offered every 6 weeks, grade level 11, 12  
Prerequisite: None

This course provides students with the job skills, responsibility skills and related academic skills necessary for success in the fire science industry. Students will complete core activities and select from a variety of skill areas including fire prevention, suppression and investigation and emergency medical services. Instruction includes field trips, demonstrations, physical training and classroom/lab activities. Students gain valuable leadership and employment skills by participating in SkillsUSA, a national and state career and technical student organization, or a similar organization.

### FIRE FIGHTING / EMS 3-4

Offered every 6 weeks, grade level 12  
Prerequisite: Fire Fighting/EMS 1-2

This course provides opportunities for students to advance their medical emergency and firefighting skills through classroom and hands-on training, including advanced training at the fire academy. In addition, students will receive in-depth training in emergency medical care, firefighting, fire rescue, urban rescue and hazardous materials. After successful completion of these units, students may qualify for industry certifications from the Occupational Safety and Health Administration and the National Fire Protection Association. Students continue participation with SkillsUSA, or a similar organization.

### LAW ENFORCEMENT 1-2

Offered every 6 weeks, grade level 11, 12  
Prerequisite: 9th grade reading proficiency level, basic math skills

This is a career preparation course for students to gain basic skills and knowledge in law enforcement, private security, homeland security, communication operators and criminal justice. Physical fitness training is required. Students will gain valuable leadership and employment skills by participating with SkillsUSA, a career and technical student organization.

### LAW ENFORCEMENT 3-4

Offered every 6 weeks, grade level 12  
Prerequisite: Law Enforcement 1-2

This course provides students the opportunity for advanced academic and physical training in the field of law enforcement. Students will study advanced police procedures, theory and methods, and practical application. Practical experience will be gained with on-the-job experience. Students will continue participation in SkillsUSA, a national and state student organization.

### EXPLORING CAREERS IN PUBLIC SAFETY 1-2

Two-semester course, grade level 9 only  
Prerequisite: None

Students will explore the wide variety of occupational pathways to assist them in making informed career decisions. Students will utilize technology-based research tools to locate and collect information and various other tools to determine which occupational areas are a good match for their skills, interests, and personality, which will assist them in development of career and education plans. In addition, students will practice and develop computer literacy skills through the use of word processing, spreadsheet, and database software; enhance their employability skills by using a variety of technology tools; and utilize the Internet for information gathering and communication using e-mail. All students must provide parental approval for Internet use. Students will have the opportunity to gain valuable leadership and employment skills through participation with SkillsUSA, a career and technical student organization.

## CAREER CONNECTIONS IN PUBLIC SAFETY 1-2

Two-semester course, grade level 10 only  
Prerequisite: Career and Technical Exploration 1-2 recommended

This course is designed to give sophomores an opportunity for in-depth career exploration and develop skills specific to the Fire Fighting/EMS and Law Enforcement career areas. In addition to shadowing opportunities, students will participate in a variety of hands-on lab activities, and practice skills directly related to the junior and senior level Fire Fighting/EMS and Law Enforcement programs. The student will have the ability to make a more informed choice when selecting their career program of study for their junior and senior years. All students must provide parental approval for Internet use.

## MATHEMATICS

### APPLIED STATISTICS FOR PUBLIC SAFETY

Two-semester course, grade level 11, 12  
Prerequisite: Passing grade in Algebra 3-4

Applied Statistics for Public Safety will prepare students to utilize statistics and statistical tools specific to public safety. The course includes descriptive statistics, inferential statistics, measures of association and correlation, analysis of variance techniques, and alternative multivariate techniques, using those statistics and statistical tools most frequently employed to conduct public safety analyses.

## WORLD LANGUAGE

### SPANISH 1-2 FOR PUBLIC SAFETY

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: Spanish 1-2 or Spanish 1-2 H

Spanish 1-2 for Public Safety is a two-semester course designed specifically for students interested in public safety careers. Students will continue a second year level of study in the area of Spanish language, gaining proficiency in listening, speaking, reading, writing and grammar concepts. Emphasis will be placed on developing the critical vocabulary, phrases and cross-cultural awareness required of public safety professions. Course Standards are aligned with the five Spanish Language State and National Standards in the areas of communication, cultures, connections, comparisons and communities. This course does not replace Spanish 3-4 in the sequence of Spanish Language in World Language credits. **This course does not meet the requirement for two credits in the same language to satisfy university admissions for foreign language.**

### SPANISH FOR PUBLIC SAFETY 1

Two-semester course, grade level 11, 12  
Prerequisite: Spanish 1-2 or Spanish speaker

Spanish for Public Safety 1 is a one-semester course designed specifically for students interested in public safety careers. Emphasis will be placed on developing the critical vocabulary, phrases and cross-cultural awareness skills required of public safety professions. This course does not meet any portion of the two-year same language sequence for students wishing to satisfy the university foreign language admissions requirement.

# CARL HAYDEN

## Community High School

3333 West Roosevelt Street  
Phoenix, Arizona 85009  
(602) 764-3000 • [www.CarlHaydenHS.org](http://www.CarlHaydenHS.org)



“Carl Hayden Community High School will prepare all students to be lifelong learners to meet the challenges of a multicultural and technological society.”

Established in 1957, Carl Hayden Community High School is the pillar of the community. Carl Hayden offers a wide range of educational core classes and experiences that will truly prepare students for success in college, career and life. Programs and classes include magnet programs in Computer Studies and Marine Science. Carl Hayden also offers opportunities for student to be involved in Honors classes, dual enrollment courses where students can earn community college credit, AP classes, AVID, biotechnology classes and an internationally renowned Robotics program. Our programs are designed to meet the needs of all students so they can be successful in an ever changing society. No matter how diverse the students’s needs are; programs are designed with student learning as the focus. To further address the students’s needs we also include a host of extracurricular clubs and athletics to fully develop a complete student. In short, Carl Hayden Community High School provides a quality and appropriate education for all students.



## CENTER FOR COMPUTER STUDIES

### PROGRAM EMPHASIS:

Students enrolled in the Center for Computer Studies will be given exceptional opportunities to utilize the latest computer hardware and software packages. A student's strong interest in computers will be met with a curriculum that emphasizes problem solving skills, teamwork and creativity through the creation of original projects. This Magnet provides its graduates the skills needed for success in college, particularly in a technical or computer field, or employment after high school.

## GENERAL ELECTIVES

### COMPUTER FUNDAMENTALS 1-2

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

Computer Fundamentals is a survey course for students to learn to use the computer in a variety of applications. Students learn word processing, hardware, software, using the Internet, computer graphics, spreadsheets and desktop publishing. Students are also given an introduction to computer programming. Computer ethics and responsibility are emphasized.

### COMPUTER SCIENCE 1-2 H

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

Computer Science 1-2 H is an accelerated course of study for students who have previous experience using computers. Students develop computer skills in areas such as word processing, desktop publishing, spreadsheets and future computer uses, computer ethics, hardware and software, and computer history. Projects are included that allow students to work individually and in groups. This course provides an introduction to structured computer programming and software engineering. Computer ethics and responsibility are emphasized. This course is available for dual enrollment community college credit.

### COMPUTER SCIENCE 3-4 H

Two-semester course, grade level 10, 11, 12  
Prerequisites: Computer Science 1-2 H

Students enrolled in Computer Science 3-4 H continue to develop structured programming and problem solving skills. Students in this course program solutions to a variety of problems using a contemporary language such as Visual Basic or Java. This course provides an in-depth study of the following programming topics: branching, looping, arrays, procedures, functions and parameter passing. Other computer science and software engineering topics are explored, including game design. The course is available for dual enrollment community college credit.

### AP COMPUTER SCIENCE A

Two-semester course, grade level 11, 12  
Prerequisite: Computer Science 3-4 H

In AP Computer Science A students apply their programming skills to larger and more complex problems and situations. Students develop an understanding of how programming works as a large scale process by using case studies and working on programming teams. Understanding and using complex data structures such as arrays, records and classes is the primary focus of this course. Additional computer science topics such as numbering systems, Boolean algebra and graph theory are also studied. Students completing this course are prepared to take the Advanced Placement Exam in Computer Science.

### COMPUTER SCIENCE SENIOR SEMINAR 1-2 H

Two-semester course, grade level 12  
Prerequisite: Completion of three full-year courses from the Computer Studies magnet program

Senior Seminar is a course designed for students who wish to do independent study in areas of computer science that interests them. Through this course students will complete individual and/or group projects and may prepare for computer competitions. Possible topics include advanced programming, video game design, multimedia, digital video and web design. Any appropriate topic can be pursued.

### COMPUTER GRAPHIC DESIGN 1-2

Two-semester course, grade level 10, 11 and 12  
Prerequisite: Computer Fundamentals 1-2 or Computer Science 1-2 H

Students create real publishing projects using a variety of computing technologies. Solutions for communications problems are reached using page layout, web page design, graphics, digital imaging and type applications. Principles of typography and color are emphasized. Graphic design principles are used to create publications such as posters, brochures, newsletters, logos and web pages.

### ADVANCED MEDIA IMAGING 1-2 H

Two-semester course, grade Level 10, 11, 12  
Prerequisite: Computer Fundamentals 1-2 or Computer Science 1-2 H

This course focuses on creating and managing digital images for print, video and the web. Students learn design principles, basic drawing skills and how to enhance and repair photographs. First semester topics include drawing with a computer, principles of design and color, text as graphics, photo collage, photo repair and rebuilds. Second semester topics include animation, independent projects and web design principles. This course is available for dual enrollment community college credit. This course qualifies for fine arts credit.

### INNOVATIVE TECHNOLOGIES 1-2

Two-semester course, grade level 10, 11 and 12  
Prerequisite: Computer Fundamentals 1-2 or Computer Science 1-2 H

Innovative Technologies introduces students to exciting topics in the world of computers and technology. The course content is dynamic and changes from year to year, allowing students to work with leading edge software and hardware. Typical modules include digital video and school broadcast components, robotics, the Internet, and podcasts.

### INTEGRATED SOFTWARE 1

One-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

Students enrolled in Integrated Software produce professional documents using current popular software. Word processing, digital images, presentation software and movie creation software are incorporated. This course includes a culminating final project.

### MULTIMEDIA PRESENTATIONS 1-2 H

Two-semester course, grade level 11, 12  
Prerequisite: Completion of two full-year courses from the Computer Studies magnet program

Students create multimedia presentations using the computer, digital imaging, video, or sound and animation as message-delivery tools. Emphasis is on projects where students use multimedia tools for interactive presentations for school and business. The course stresses the connectivity processes for creating visual communications. The course is available for dual enrollment community college credit. This course qualifies for fine arts credit.



**MULTIMEDIA PRESENTATIONS 3-4 H**

Two-semester course, grade level 12  
 Pre/Co-requisite: Multimedia Presentations 1-2 H

Students use various video authoring tools to create projects using sophisticated computer systems. Projects include full-screen digital video, special effects and CD quality audio for multimedia development and business communication. Advanced connectivity solutions using CD-ROM, video and various computer platforms are incorporated into student projects. The course is available for dual enrollment community college credit.

**NETWORKING & OPERATING SYSTEMS 1-2 H**

Two-semester course, grade level 11, 12  
 Prerequisite: Completion of two full-year courses from the Computer Studies magnet program or teacher approval

Students in Networking & Operating Systems 1-2 H study current network software and hardware. Popular operating systems such as Windows, Mac OS, and Linux are introduced and compared.

**APPLIED MARINE SCIENCE 1-2**

Two-semester course, grade level 11  
 Prerequisite: Marine Biology 1-2, or Instructor approval

Applied Marine Science extends the concepts learned in Marine Biology 1-2 and promotes problem solving and critical thinking related to issues associated with water, marine organisms, and ecosystems. The primary emphasis will be on the evolution of marine life and in-depth study of marine vertebrates and ecology. Course work may enable students to participate in a field experience that allows them to apply concepts and skills they have learned to a "real world" situation. The field experience for this 3rd year course may include scuba diving instruction, working with different marine life, and technology. This course involves integration of technology by enabling students to work with many instruments, devices, and computers to accomplish their work.

**MARINE SCIENCE RESEARCH 1-2**

Two-semester course, grade level 12  
 Prerequisites: Applied Marine Science 1-2 & Marine Biology 1-2

Students will conduct original research projects centered on marine issues. Advanced research techniques will be taught and followed, data analyzed and a final report written on each research project.

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**CENTER FOR MARINE SCIENCE**

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**PROGRAM EMPHASIS:**

Through hands-on activities, field trips and original research projects, the Center for Marine/Environmental Science will equip students with the information, skills and personal experiences necessary to deal with the complex issues facing people today. This educational package will enable the students to make intelligent decisions about the environment and discover possible solutions for its wise use, restoration and conservation.

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**SCIENCE**

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**INTRO TO MARINE SCIENCE 1-2**

Two-semester course, grade level 9  
 Prerequisite: None  
 Meets the PUHSD and AZ Science Standards graduation requirement  
 Meets laboratory science admissions requirements of AZ universities

This course is structured on basic oceanography concepts including: the dynamic processes of water, the sea floor, and abundant life forms. This class takes a broad approach, relying on basic concepts to explain the ocean's mysteries. This course utilizes labs to familiarize students with scientific principles and concepts related to marine science. The scientific method will be integrated throughout the course. This course involves the integration of technology and allows students to work with many instruments, devices, and computers to accomplish their work.

**MARINE BIOLOGY 1-2**

Two-semester course, grade level 10  
 Prerequisite: Introduction to Marine Science, or Instructor approval  
 Meets the PUHSD and AZ Science Standards graduation requirement  
 Meets laboratory science admissions requirements of AZ universities

This course is a laboratory science course and is designed to extend the knowledge base learned in Biology 1-2. The course will continue to teach problem solving and critical thinking related to issues associated with water, marine organisms, and ecosystems. The primary emphasis will be on the organization of marine life and the in-depth study of marine plants and invertebrates. Course work enables students to participate in experiences where they apply concepts and skills they have learned to a "real world" situation. This course involves the integration of technology by enabling students to work with many instruments, devices, and computers to accomplish their work.

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**ENGLISH ELECTIVES**

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**CONTEMPORARY WOMEN'S LITERATURE 1-2**

Two-semester course, grade level 12  
 Prerequisite: Simultaneous or previous enrollment in English 7-8  
 This course does not fulfill the four-year English requirement

This course introduces students to contemporary women writers. Emphasis is placed upon reading comprehension and critical writing, reflecting the social, literary and conceptual ideas presented in the works of the authors.

**SOUTH / CENTRAL AMERICAN LITERATURE 1**

One-semester course, grade level 12  
 Prerequisite: None  
 This course does not fulfill the four-year English requirement

The students and teacher will discuss, in a seminar, various aspects of this literary genre. The students will write a formal 5-10 page essay. Students will also write critiques in addition to writing creative efforts based upon various styles. An overall view of South American literature will be sequenced into the discussions. Grades will be based upon the quality of the discussion and writing from each student. Students will be required to spend a great amount of time outside of class reading material.

# MARYVALE

## High School

3415 North 59th Avenue  
Phoenix, Arizona 85031  
(602) 764-2000 • [www.MaryvaleHS.org](http://www.MaryvaleHS.org)



### WELCOME TO MARYVALE HIGH SCHOOL – HOME OF THE PANTHERS

Maryvale is a comprehensive high school known for maintaining the best attendance and graduation rate (91.4%) in the district. A rigorous curriculum consists of over sixty AP and Honors sections in all academic and elective classes. Students also have the opportunity to be dual enrolled with Phoenix College earning college credit alongside their high school credit. Our seniors consistently receive scholarships totaling over \$1,000,000. Maryvale has a highly qualified staff including six National Board Certified Teachers.

Maryvale is known for having an outstanding Performing Arts program which includes Touring Guitar Ensemble, Choir, Jazz Choir, Marching and Concert Honors Band, Jazz Band, Honors Orchestra, Piano, Dance and Drama courses. Our Touring Guitar Ensemble has performed for audiences on the East and West Coasts and in Europe.

Competitive athletic programs such as football, soccer, basketball, track and field, cross country, spirit line, tennis, golf, baseball, softball, wrestling, and volleyball are offered to all students. Maryvale is proud to have the youngest Olympic Gold Medalist in wrestling among its alumni, Henry Cejudo. Also among alumni are Frank Garcia, Darren Woodson and Phillippi Sparks who played in the National Football League. Maryvale offers membership in over sixty student clubs and organizations for all students.

# METRO TECH

## High School

1900 West Thomas Road  
Phoenix, Arizona 85015  
(602) 764-8000 • [www.MetroTechHS.org](http://www.MetroTechHS.org)



Metro Tech High School is a school of choice that provides a four-year college preparatory curriculum along with a two-year career and educational program to all students. We ensure that all our students explore their academic and career interests and abilities in a learning environment that exemplifies rigor, relevance, and relationships. We are committed to the district mission of preparing every student for success in college, career, and life.



# METRO TECH

## PROGRAM EMPHASIS:

Metro Tech High School combines all the necessary academic courses for graduation and post-secondary education with 30 Career and Technical Education programs. Critical thinking, communication, information processing, collaboration and work habits are emphasized and assessed in every course at Metro Tech. All regular, ELL and honors courses are offered with several of the course offerings integrated and even jointly instructed. Metro Tech graduates have the skills needed to be successful in post-secondary studies and the world of work.

Students may enroll full time at Metro Tech. Offerings include a complete, grades 9-12, magnet school combined with academic preparation and technology and career preparation. Also, high school students from any

comprehensive or alternative campus in the Phoenix Union High School District may elect to attend Metro Tech part time their 11th grade and 12th grade years as a dual student. Dual students attend academic classes at their home school and attend Metro Tech for high-quality career training programs and/or our evening academic courses. In addition, any high school aged student who has not graduated and who lives within the boundaries of Phoenix Union High School District may attend our day or evening programs tuition free. Metro Tech's evening school courses offer flexibility for students seeking another alternative to traditional high school scheduling.

Metro Tech CTE Program Sequence		
		Recommended Practicum
9th grade	Career & Technical Education 1-2	
10th grade	Career Connections 1-2	
11th grade	CTE Junior-Level Program 1-2	
12th grade	CTE Senior-Level Program 3-4	Internship ( <i>optional</i> )

## CTE FRESHMAN LEVEL PROGRAM

### CAREER AND TECHNICAL EXPLORATION 1-2

Two-semester course, grade level 9  
Prerequisite: None

Students will practice and develop computer literacy skills through the use of word processing, spreadsheet, presentation and database software. Students will enhance their employability skills by using a variety of technology tools, utilizing the Internet for information gathering, and communication using e-mail. Students will explore a wide variety of occupational pathways to assist them in making informed career decisions. Students will utilize technology-based research tools to locate and collect information, and use various tools to determine the occupational areas that are a good match for their skills, interests, and personality. This information will assist them in the development of career and education plans. All students must provide parental approval for Internet use.

## CTE SOPHOMORE LEVEL PROGRAM

### CAREER CONNECTIONS AT METRO TECH 1-2

Two-semester course, grade level 10  
Prerequisite: None

Sophomores will refine their college and career planning through in-depth investigation and research into a full spectrum of career options, utilizing the nationally recognized Career Clusters framework. Students will develop their own unique profile, using data obtained through participation in variety of personality assessments and career interest, aptitude, and skills tests. Students will correlate their own unique profile with complementary career options. In addition, students will enhance organizational, research and study skills, which are necessary for success in any college and career experience. Students will participate in a variety of hands-on lab activities and shadowing opportunities, to practice and experience skills associated with a variety of Career Clusters. Through these experiences and research, students will have the ability to make a more informed choice when selecting their junior/senior level CTE career program. All students must provide parental approval for Internet use.





## CTE JUNIOR & SENIOR LEVEL PROGRAMS

### ACCOUNTING TECHNOLOGY, COMPUTERIZED 1-2

Offered every 6 weeks, grade level 11, 12

Prerequisite: Business and Computer Applications 1-2 recommended

This class prepares a student for an entry-level position in accounting. The student will learn how to record the financial transactions of a company and report on its performance. In addition, students will be able to perform analysis to determine how well the company is doing. The student will accomplish this by using QuickBooks and Microsoft Office. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Business Leaders of America (FBLA), a state and national career and technical student organization.

### ACCOUNTING TECHNOLOGY, COMPUTERIZED 3-4

Offered every 6 weeks, grade level 12

Prerequisite: Accounting Technology, Computerized 1-2

In this class advanced students will learn how to account for more complex business transactions and improve on their financial reporting and analysis skills. Students will increase their skills using Peachtree, Excel, Word and PowerPoint to accomplish these tasks. In addition, students can choose on-the-job training where they will be placed in an accounting job and work during school hours while earning credit for the class at the same time. Career and technical student organization affiliation opportunities are available.

### HONORS ACCOUNTING 3-4

Two-semester course, grade level 12

Prerequisite: Successful completion of one year of Accounting 1-2

Honors accounting uses an integrated approach to teach accounting. Students first learn own businesses plan for and evaluate their operating, financing and investing decisions. They then learn how accounting systems gather and provide data to internal and external decision makers. Topics include an introduction to accounting, accounting information systems, time value of money, sales and receivables, fixed assets, debt, equity, cash flows, financial ratios, cost-volume-profit analysis and variance analysis.

### AUTOMOTIVE COLLISION REPAIR 1-2

Offered every 6 weeks, grade level 11, 12

Prerequisite: None

This course involves three-12 week rotations which provide students with the basic job skills, related academic skills and responsibility skills needed for entry level employment in the auto collision repair industry. In each rotation the students will master basic competencies in safety, hand and power tools, minor auto body repair, refinishing, estimating, welding, and exterior trim work. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

### AUTOMOTIVE COLLISION REPAIR 3-4

Offered every 6 weeks, grade level 12

Prerequisite: Automotive Collision Repair 1-2

This advanced course builds on competencies gained in the first year program with each rotation directed at the instructors' specialized skill set. Job skills are expanded to include hydraulic power equipment, panel repair and replacement, spot refinishing and color blending and matching. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

### AUTOMOTIVE TECHNOLOGIES 1-2:

#### BRAKES, SUSPENSION AND STEERING 1-2

#### ELECTRICAL/ELECTRONIC SYSTEMS 1-2

#### ENGINE PERFORMANCE 1-2

One-semester course, Grade level 11

Prerequisite: Student enters and maintains a minimum 2.0 grade point average; and program instructor approval.

This course involves three-12 week rotations. This program meets the strict industry standards required for Automotive Service Excellence (ASE) certification by the National Automotive Technicians Education Foundation (NATEF), and Automotive Youth Educational Systems (AYES). The program features NATEF approved instruction for Braking Systems, Electrical/Electronic Systems, Engine Performance, and Suspension and Steering Systems. As students rotate through each of the areas, they will obtain practical experience by working on mock-ups, models, computer labs, and the repair of customers' vehicles. Focus will be placed upon attainment of NATEF/AYES standards. Proper use of hand tools, shop equipment, safe working practices, and employee relations are stressed. This program provides job shadowing opportunities at local automotive dealerships upon completion of the first year. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

### AUTOMOTIVE TECHNOLOGIES 3-4:

#### BRAKES, SUSPENSION AND STEERING 3-4

#### ELECTRICAL/ELECTRONIC SYSTEMS 3-4

#### ENGINE PERFORMANCE 3-4

One-semester course, Grade level 12

Prerequisite: Automotive Technologies 1-2. Students must maintain a minimum 2.0 GPA; and program instructor approval.

In this advanced course, students will continue their program of study in Automotive Technologies. Students will build upon and expand the skills attained in the 1-2 program, and experience new skills related to Automotive Technologies fields. Focus will be placed upon attainment of National Automotive Technicians Education Foundation (NATEF), and Automotive Education Systems (AYES) standards. Expanded experiences and related skills are taught to prepare students to enter the automotive field as an advanced apprentice, a program of continued education or military service in a chosen mechanical field. Eligible students will be offered on-the-job training experiences. Upon successful completion of Automotive Technologies 3-4, students will be prepared to take the Automotive Service Excellence (ASE) certification exam. This program provides job shadowing opportunities at local automotive dealerships. Community college dual enrollment credit will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**BANKING AND FINANCIAL SERVICES 1-2**

Offered every 6 weeks, grade level 11, 12

Prerequisite: Computer and Technical Education 1-2 recommended

This course trains students for positions in banks, savings and loan associations, credit unions, credit card centers and retail establishments. Curriculum includes training in banking and bank teller procedures, encoder operations (primarily ten-key calculator skills and debit and credit knowledge), development of personal and communications-related business skills, job preparation and enhancement of keyboarding skills. Students gain valuable critical thinking and business ethics skills through classroom participation, visits from business professionals and Future Business Leaders of America (FBLA) programs. The stock market, new accounts, financial regulations, Federal Reserve System and bank operations are also studied in this class. Community college dual enrollment credit will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Business Leaders of America (FBLA), a state and national career and technical student organization.

**BANKING AND FINANCIAL SERVICES 3-4**

Offered every 6 weeks, grade level 12

Prerequisite: Banking and Financial Services 1-2

This advanced course continues with an emphasis on the principles of banking. It will present an in-depth study of the functions of banking, and will prepare students with hands-on balancing activities using teller machines and terminals. Students will also study the process of opening accounts. Community college dual enrollment credit will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Business Leaders of America (FBLA), a state and national career and technical student organization.

**BUSINESS MANAGEMENT AND ADMINISTRATIVE SERVICES 1-2**

Offered every 6 weeks, grade level 11, 12

Prerequisite: None

This course is designed to prepare students for a career in any business or office environment. Students will acquire necessary skills for today's business world. Students will learn, in a hands-on environment, about various aspects of how businesses operate. This hands-on training will utilize several different computer software programs such as Microsoft Office, including Word, Excel, Access, PowerPoint, Publisher, and Internet Explorer. Written and oral communication will also be emphasized. Business management and business administration content areas will include, but are not limited to, job skills, ethics, office management, marketing, human resources, economics, teamwork, and leadership. Community college dual enrollment credit will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Business Leaders of America (FBLA), a state and national career and technical student organization.

**BUSINESS MANAGEMENT AND ADMINISTRATIVE SERVICES 3-4**

Offered every 6 weeks, grade level 12

Prerequisite: Business Management and Administrative Services 1-2 or Business and Computer Applications 3-4

This advanced course is designed to further develop employment skills in business management and administrative services and will assist students in choosing a career. Students will receive real-world job experience through class projects or an on-the-job training (OJT) program. This class will also offer an opportunity to gain advanced computer and technology skills. Additionally, job-related skills, teamwork, interpersonal skills, leadership, finances, and communication skills will be covered in-depth. Community college dual enrollment credit will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Business Leaders of America (FBLA), a state and national career and technical student organization.

**COMPUTER & NETWORK TECHNOLOGY 1-2**

Offered every 6 weeks, grade level 11, 12

Prerequisite: Exploring Technology or Career Exploration 1-2 or Business and Computer Applications 1-2 Recommended

This program prepares students to repair, maintain, design, configure, install, and troubleshoot computer hardware, software, and network systems. By participating in hands on and work-based learning experiences, students gain valuable skills leading to opportunities for CompTIA A+ professional certification, entry level jobs, and/or university placement in the computer and network field. Areas of focus include computer maintenance and repair, computer security, operating systems, local area networks, programming, Internet and Web, and related topics. Community college dual enrollment credit will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**COMPUTER & NETWORK TECHNOLOGY 3-4**

Offered every 6 weeks, grade level 12

Prerequisite: Computer and Network Technology 1-2

Recommended Tools: USB memory stick, blank CD-R/RWs

This advanced curriculum prepares students for advanced-level jobs and university placement in the computer and network technology field. This course is oriented specifically towards professional career certifications in the technology field. Work in this course can lead to complete certifications in the following: Microsoft Certified Professional, Network Support Technician, MCP Certification, Linux and Unix Support, and others; and partial completion for certifications in Microsoft Certified Systems Engineer, MCSE Certification, Computer Network Security, among others. Emphasis is placed on leadership skills, business entrepreneurship, computer ethics, and on-the-job (OJT) training. Students will develop an understanding of security concerns in a heterogeneous network environment. Community college dual enrollment credit will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**CONSTRUCTION TECHNOLOGIES 1-2**

Offered every 6 weeks, grade level 11, 12

Prerequisite: None

Recommended Tools: Tape measure, tool apron, hammer, angle, wire cutter. Students need to add one hand tool each six week semester, or pay a refundable deposit of up to \$50.00 for use of school set of hand tools.

This course is designed to prepare students for careers in the construction industry. All students have the opportunity to obtain national certification in a core curriculum provided by the National Center of Construction Education and Research, NCCER (safety, hand tools, power tools, rigging, construction math, and blueprint reading). Students will have the opportunity to master competencies in electrical, plumbing, masonry, concrete finishing, site layout, exterior finish, and roofing applications. Also, students will have the opportunity to master the competencies in framing a building. Students will be able to obtain permits, licenses, or certificates to enhance their personal opportunity to gain employment in construction industries. When appropriate, students will work on personal projects, mock-ups, scaled models, and on residential projects in the community. Community college dual enrollment credit will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

## CONSTRUCTION TECHNOLOGIES 3-4

Offered every 6 weeks, grade level 12  
Prerequisite: Construction Technologies 1-2

Students will have the opportunity to complete certifications and college-related credits not completed in the first year. This course is a continuation of Construction Technology 1-2, but with more advanced and in-depth instruction in carpentry and electrical wiring trades. The electrical wiring focus teaches theory and job completion to National Electrical code standards. Added to the curriculum is construction management, job estimating, building permit process, teamwork, and additional training in construction techniques. Students have the opportunity to participate in an on-the-job training program during class time and/or after school hours with possible wage earnings. NOTE: On-the-job training requires students to have their own transportation, parent permission, and willingness to work with the instructor to set up a work situation. Community college dual enrollment credit will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

## COSMETOLOGY 1-2

Offered only at the beginning of the first and second 18-week semesters each year, grade level 11  
Prerequisite: Program instructor approval; Metro Tech Cosmetology Orientation Required. Students must have a minimum of 10 high school credits; two (2) must be in English.  
Materials: Basic kit required to meet State Board of Cosmetology Licensure requirement

Cosmetology includes the basic theory and practice of beauty culture in preparation for the Arizona State Board of Cosmetology examination. Practical experience is given in hair styling, finger waving, hair cutting, shampooing, pressing, relaxing, facials, scalp treatments, hair tinting, bleaching and manicuring. In addition, related information concerning bacteriology, sanitation, sterilization hygiene, cosmetic chemistry, diseases of the skin, scalp and hair, personality development, professional ethics, salon management and Arizona law governing cosmetology is included in this training. Students attend class Tuesday-Friday 12:00 to 5:00 PM, Saturday 8:30 AM to 5:30 PM. Summer session students attend Monday-Friday 8:00 AM to 5:00 PM through June. Summer session is required. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

## COSMETOLOGY 3-4

Offered only at the beginning of the first and second 18-week semesters each year, grade level 12  
Prerequisite: Cosmetology 1-2 or Instructor approval  
Materials: Basic kit required – student will utilize kit purchased for 1-2.

In this advanced course students complete classroom and clinical training in preparation for the State Board of Cosmetology License Examination. Students apply classroom and clinical skills by working with clients in an actual salon environment. Successful completion of the State Board Examination qualifies students for employment as licensed cosmetologists. Student will continue to utilize the Materials Kit purchased for the Cosmetology 1-2 course. Students attend class Tuesday-Friday 12:00 to 5:00 PM, Saturday 8:30 AM to 5:30 PM. Summer session students attend Monday-Friday 8:00 AM to 5:00 PM through June. Summer session is required. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

## CULINARY ARTS 1-2

Offered every 12 weeks, grade level 11, 12  
Prerequisite: None

This course is the first step towards becoming a professional chef, baker or food server. Students prepare basic and gourmet foods and breads and desserts through the operation of a café, gourmet dining room and banquet rooms. Kitchen foods prepared include meat, poultry and seafood entrees, appetizers, salads and dressings, pastas, starches and side dishes, highlighting locally grown and harvested foods when possible. Bakery items range from Danish rolls, pies and cakes to specialty breads, pastries and gourmet desserts. Customer service varies from buffet and menu service to catering and formal dining. Innovative eco-friendly business practices are integrated into the program, in an effort to sustain our natural resources. The job skills and techniques required for successful employment in the industry are stressed throughout the course. Students will be required to obtain a current Maricopa Food Service Worker/Food Handler's card. Students will be required to comply with industry-specific personal presentation and dress code. Upon successful completion, students are eligible for entry-level positions in the food and beverage industry. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Careers in Culinary Arts Program (C-CAP) and SkillsUSA, state and national career and technical student organizations.

## CULINARY ARTS 3-4

Offered every 6 weeks, grade level 12  
Prerequisite: Successful completion Culinary Arts 1-2 or Foods 1-2

Students gain skills in the planning and production aspects of the culinary arts food preparation. Students who meet eligibility requirements will be offered an on-the-job training opportunities and will continue to accrue Culinary Arts credits. If students decline the OJT option, they may continue to rotate through the three culinary arts stations, increasing their knowledge, speed, efficiency and skills. Students will be required to attain a current Maricopa Food Service Worker/Food Handler's card. Students will be required to comply with industry-specific personal presentation and dress code. Students meeting requirements will be referred for employment in hotels and restaurants in the greater Phoenix area. Students continue participation in Careers in Culinary Arts Program (CCAP) and SkillsUSA.

## DRAFTING 1-2: INTRO TO COMPUTER AIDED DRAFTING (CAD)

Offered every 6 weeks, grade level 11, 12  
Prerequisite: Algebra 1-2 and Geometry 1-2 recommended

This course offers basic board drafting and Computer-Aided Drafting (CAD) skills to meet the industry's entry level job requirements. The students will learn the drafting language and tool/equipment handling techniques. Community college dual enrollment credit will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

## DRAFTING 3-4: ARCHITECTURAL DRAFTING

Offered every 6 weeks, grade level 12  
Prerequisite: Successful completion of the Design/Drafting 1-2 or Intro to Computer Aided Drafting (CAD) 1-2; Algebra 1-2 and Geometry 1-2 required

In this advanced course students prepare for employment in the field of architectural drafting and design. Emphasis is placed on entry-level architectural drafting as well as entry into college-level programs. AUTOCAD software is used to complete individualized projects. Students reaching a required level of proficiency are eligible for on-the-job training (OJT). Community college dual enrollment credits will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.



**DRAFTING 3-4: MECHANICAL DRAFTING**

Offered every 6 weeks, grade level 12

Prerequisite: Successful completion of Design/Drafting Technology 1-2 or Intro to Computer Aided Drafting (CAD) 1-2; Algebra 1-2 and Geometry 1-2 recommended

This advanced course is designed for students interested in a drafting or engineering career in the aerospace, mechanical, architectural or civil areas. Students will learn computer animation, graphics, and rendering and, as well they will be trained in all facets of computer-aided drafting and design, using AUTOCAD as the primary software. These CAD skills are applied to the student's chosen field of specialization. Evaluation of CAD software skills and job skills are emphasized. Community college dual enrollment credits will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**EARLY CHILDHOOD EDUCATION 1-2**

Offered every 6 weeks, grade level 11, 12

Prerequisite: None

This program is for students who are interested in careers in early childhood education and/or employment in the child care industry. Students develop the academic and job skills necessary for employment by participating in classroom and child care learning center activities. Responsibility and essential teaching skills are emphasized. This course provides the foundation for the attainment of the nationally recognized CDA industry credential. Students will be expected to earn their CPR/First Aid certification, attain a current Maricopa Food Service Worker/Food Handler's card and are required to pass a TB test. Students will be required to comply with industry-specific personal presentation and dress code. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Educators of America (FEA), a state and national career and technical student organization.

**EARLY CHILDHOOD EDUCATION 3-4**

Offered every 6 weeks, grade level 12

Prerequisite: Successful completion with a C or better of Early Childhood Education 1-2

This advanced program includes job skills, related academic skills and responsibility skills needed to be successful in the early childhood education environment and the child care industry. The work experience in the child care learning center laboratory will provide a variety of real learning experiences that are required for employment. This course prepares students to obtain the nationally recognized CDA industry credential. Students will be expected to earn their CPR/First Aid certification, attain a current Maricopa Food Service Worker/Food Handler's card and are required to pass a TB test. Students will be required to comply with industry-specific personal presentation and dress code. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Educators of America (FEA), a state and national career and technical student organization.

**EDUCATION PROFESSIONS 1-2**

Offered every 6 weeks, grade level 11, 12

Prerequisite: 12 credits at end of sophomore year; Algebra 1-2; Geometry 1-2; two years of Science; one year of World Languages recommended

This course provides students interested in becoming a teacher a program of study in education career choices. Students will analyze the stages of child development related to teaching and learning. They will experience hands-on activities in the preparation of lesson planning and classroom management. Students will delve into education theory and methodology; learning styles; history of U. S. education and structure; roles and characteristics of teachers. Introductory classroom observation and interactive field experiences will be included. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Educators of America (FEA), a state and national career and technical student organization.

**EDUCATION PROFESSIONS 3-4**

Offered every 6 weeks, grade 12

Prerequisite: Successful completion of Education Professions 1-2

This course continues a program of study in the "teaching" career and preparation for entry in to a post-secondary school. Advanced studies and instruction will be delivered in educational theory and methodology, learning styles, and related technology use. Issues related to exceptional learners; diversity and its impact on teaching and learning and leadership styles will be examined. Students will also study the roles and organization of school districts and governing boards. Advanced opportunities will be offered in observation and interactive field experiences. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Educators of America (FEA), a state and national career and technical student organization.

**ELECTRICAL WIRING TRADES 1-2**

Offered every 6 weeks, grade level 11, 12

Prerequisite: None

Recommended Tools: Tape measure, tool apron, hammer, angle, wire cutter. Students need to add one hand tool each six week semester, or pay a refundable deposit of up to \$50.00 for use of school set of shop and hand tools.

This entry-level course is designed to prepare students for careers in the construction industry with a focus in electrical wiring trades. All students have the opportunity to obtain national certification in a core curriculum provided by the National Center of Construction Education and Research (NCCER) (safety, hand tools, power tools, rigging, construction math, and blueprint reading). Students will have the opportunity to master competencies in electrical, plumbing, masonry, concrete finishing, site layout, exterior finish, and roofing applications. Students will also have the opportunity to master the competencies in framing a building. Students will be able to obtain permits, licenses, or certificates to enhance their personal opportunity to gain employment in construction industries. When appropriate, students will work on personal projects, mock-ups, scaled models, and on residential projects in the community. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**ENGINEERING 1-2 HONORS**

Two semester course, grade level 11, 12

Prerequisite: Algebra 1-2, Physical Science or Biology

In the first year of Engineering course, students will become familiar with engineering design development and technology systems. Students will use problem-solving skills and teamwork to create products in a project centered environment. Students will learn cutting edge techniques in mechanical design, robotics and automated systems. By the completion of this course, students will have produced many mechanical parts, assemblies and drawings, and also have programmed and built robotic and automated systems. Students will gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**ENGINEERING 3-4 HONORS**

Two semester course, grade level 12

Prerequisite: Successful completion of Engineering 1-2; Algebra 1-2; Geometry 1-2 or concurrent enrollment in Geometry 1-2; Chemistry 1-2 recommended

In the second year Engineering course, students will build upon the skills learned in the first year Engineering course. Students will have the opportunity to attain advanced knowledge, techniques, and skills in mechanical design, automated systems, robotics and technical programming. Students will use problem-solving skills and teamwork to complete a capstone project and demonstrate learning by taking the mandated Arizona State End of Program examination. Students will gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Skills USA, a state and national career and technical student organization.



**ELECTRICAL WIRING TRADES 3-4**

Offered every 6 weeks, grade level 12  
Prerequisite: Electrical Wiring Trades 1-2

This course is a continuation of Construction Technology 1-2, but with more advanced and in-depth instruction in residential electrical wiring trades. The electrical wiring focus teaches electrical safety, theory, interpretation of plans and drawings, layout work, order materials and job completion to National Electrical Code standards. Added to the curriculum is construction management, job estimating, building permit process, teamwork, and additional training in construction techniques. Students have the opportunity to participate in an on-the-job training program during class time and/or after school hours with possible wage earnings. NOTE: On-the-job training requires students to have their own transportation, parent permission, and willingness to work with the instructor to set up a work situation. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**FASHION & INTERIOR TECHNOLOGY 1-2**

Offered every 6 weeks, grade level 11, 12  
Prerequisite: Fashion Plus 1-2 recommended

Students become familiar with fashion and interior career options and prepare for related employment as they study color, design, textiles, apparel, furnishings and retailing. Studies include computer design fabric selection, home furnishings, clothing construction, floor plan design, wardrobe and merchandising. The course includes a field trip to the Los Angeles garment district. Community college dual enrollment credit will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in a state and national career and technical student organization.

**FASHION & INTERIOR TECHNOLOGY 3-4**

Offered every 6 weeks, grade level 12  
Prerequisite: Fashion & Interior Technology 1-2

In this advanced course students develop entrepreneurial skills related to fashion careers and interior design. Design and production skills are used in the production of a fashion show and displays for a show case. Emphasis is placed on Fashion & Interior design projects. Community college dual enrollment credit will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in a state and national career and technical student organization.

**FILM AND DIGITAL MEDIA ART 1-2**

Offered every 6 weeks, grade level 11, 12  
Prerequisite: None

This course is designed to introduce students to the film and broadcast industries. Students will learn trades necessary to produce a motion picture or documentary for information, entertainment and/or education. Students' talents will be refined while they develop a product from start to finish, including preparation for distribution. In addition, students will develop skills in leadership/teamwork, decision-making, work ethics and more while refining employability and job search skills. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**FILM AND DIGITAL MEDIA ART 3-4**

Two semester course, grade level 12  
Prerequisite: Successful completion of Film and Digital Media Art 1-2

In this advanced course, students will continue to refine previously learned skills while learning cutting-edge techniques in editing, sound reinforcement, surround sound, DVD/Blue Ray authoring, and film finishing. By the completion of this program, students will have produced a feature film from concept to release. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**FLORAL DESIGN & BUSINESS OPERATIONS 1-2**

Offered every 6 weeks, grade level 11, 12  
Prerequisite: None

In the first year of the Floral Design Program students combine creativity and business operations with specific job skills as they prepare for employment in this rapidly expanding industry. Students master skills in the areas of floral display materials, arrangements, plants and flowers, sales and customer relations as they progress through this course. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Business Leaders of America (FBLA), a state and national career and technical student organization.

**FLORAL DESIGN & BUSINESS OPERATIONS 3-4**

Offered every 6 weeks, grade level 12  
Prerequisite: Floral Design and Business Operations 1-2 or Instructor approval

This advanced course provides students the opportunity to continue their development of floral design and business operations skills. Floral design, customer service, small business operations and entrepreneurship skills will be developed in the classroom/lab and will be applied by working in "Flowers by Tech," the retail floral shop located on the Metro Tech campus. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Future Business Leaders of America (FBLA), a state and national career and technical student organization.

**HEALTH CAREERS 1-2: NURSING ASSISTANT**

Two-semester course, grade level 11  
Prerequisite: Passed English 1, 2, 3; Biology 1; Algebra 1; and a 2.75 GPA or higher; and instructor approval

This course is for students who want to prepare for employment in the health care industry, specifically Nursing Services, while gaining valuable information to be successful in any health career field. Students are introduced to nursing assistant health care core competencies covering the following areas: anatomy, physiology and associated pathology, medical terminology, oral and written communication, health care delivery systems, employability, legal and ethical responsibilities, safety and teamwork. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Health Occupations Students of America (HOSA), a state and national career and technical student organization.

*\*\*\*Students may receive a waiver for meeting the Health course requirement for graduation after passing the entire year (36 weeks) of 1-2.*

**HEALTH CAREERS 3-4: NURSING ASSISTANT**

Offered only at the beginning of the first 18-week semester, grade level 12  
Prerequisite: Passed Health Careers 1-2: Nursing Assistant; and instructor approval

This course prepares students for employment in the health care industry as Nursing Assistants. Students will master nursing assistant health care core competencies covering the following areas: medical terminology, oral and written communication, nursing assistant skills, employability, legal and ethical responsibilities, safety and teamwork. The program is approved by the Arizona State Board of Nursing and students completing the program may obtain a state certificate. Community college dual enrollment credit will be offered. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Health Occupations Students of America (HOSA), a state and national career and technical student organization.

**HEALTH CAREERS 1-2: PHARMACY SUPPORT SERVICES**

Offered only at the beginning of the first 18-week semester, grade level 11  
Prerequisite: English 1, 2, 3; Biology 1; Algebra 1

This course is for students who want to prepare for employment in allied health areas of the medical field, specifically Pharmacy Support Service, while gaining valuable information to be successful in any health career field. Students master applied health core competencies covering the following areas: health and wellness issues, principles of human biology, physiology and associated pathology, medical terminology, health care organizational structures, communication skills, legal responsibilities and ethical issues, patient rights and confidentiality, employability, safety and teamwork, etc. Students are introduced to a variety of health related careers. Activities include job shadowing in clinical settings. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Health Occupations Students of America (HOSA), a state and national career and technical student organization.

**HEALTH CAREERS 3-4: PHARMACY SUPPORT SERVICES**

Offered only at the beginning of the first 18-week semester, grade level 12  
Prerequisite: Passed English 1, 2, 3; Biology 1, Algebra 1; Health Careers 1-2

This course prepares students for employment in the health care industry as Pharmacy Technicians. Curriculum includes training in the preparation of medication, processing of drug orders, and the proper distribution of prescriptions. Medical terminology will be used throughout the course to interpret, transcribe, and effectively communicate information. Students will learn about various careers in pharmacy. Instruction consists of both classroom and clinical experience. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in Health Occupations Students of America (HOSA), a state and national career and technical student organization.

**TOURISM & HOSPITALITY 1-2**

Offered every 6 weeks through the academic year, grade level 11, 12  
Prerequisite: None  
Recommendation: Type 20 words per minute

Students receive a comprehensive overview of the tourism and resort industry with exposure to the various career options for preparation for employment. This course covers a number of tourism-related topics, including tourism-related skills, field trips, presentations from industry speakers and instruction in industry software and systems. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**TOURISM & HOSPITALITY 3-4**

Offered every 6 weeks through the academic year, grade level 12  
Prerequisite: Successful completion of the first year of Tourism & Hospitality  
Recommendation: Type 20 words per minute

This advanced course provides classroom instruction and internships with established tourism and resort service providers. A greater emphasis is placed on developing employment skills and career goals. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization.

**VOCATIONAL SPECIAL EDUCATION CLUSTER**

**PROGRAM DESCRIPTION FOR COMMUNITY SKILLS**

The Metro Tech Community Skills program is designed to combine the best practices of CBT (i.e. functional community-based curriculum, chronologically age appropriate curriculum, positive behavioral supports, parental input, inclusion opportunities with natural supports/non-disabled peer supports) and the unique vocational programs of Metro Tech. The program is designed primarily for 18-22 year olds who could benefit from an intensified vocational training program and whose parents are supportive of their son/daughter working once they leave the program at age 22. The maximum enrollment for the program is 12 students with 1 teacher and up to 2 assistants. The program operates on a five hour and thirty minute school day, five days per week.

**PREREQUISITES**

18-22 years old, 16 and 17 year olds will be considered on a case by case basis.

Two years prior experience in a campus CBT program.

Student and parent/guardian serious about commitment to the program and moving on to the competitive working world.

**BUSINESS PREPARATION 1-2**

Offered every 6 weeks through academic year, age 16 or above  
Prerequisite: Referral checklist forwarded to Metro Tech SPED

Recommendation: Socially aware students with interest in office/business related careers

Population served: Cross-categorical students

Program hours: AM and PM sessions

Location: Metro Tech High School

The Business Prep program is a preparation/survey course designed to assist Special Education students interested in office/business vocational programs. This class establishes transition needs. Transition may occur via a mainstream office/business related class or other more appropriate SPED work training sites. Business Prep concentrates on keyboarding, ten-key, basic computing skills and work readiness skills with an emphasis toward mainstream integration, as appropriate.

**COMMERCIAL BUILDING MAINTENANCE 1-2**

Offered every 6 weeks, grade level 11, 12  
Prerequisite: None

This competency-based training program is designed to prepare students to develop entry level skills, behaviors and work habits in the building trades area. Training in a variety of trades and repair areas including: electrical, plumbing, carpentry, drywall repair and interior and exterior maintenance. Students complete interior trade jobs on-site and in community areas when appropriate.

**COMMERCIAL BUILDING MAINTENANCE 3-4**

Offered every 6 weeks, grade level 11, 12  
Prerequisite: Successful completion of the first year of Commercial Building Maintenance

Building upon skills gained in the basic course, students develop additional skills, behaviors and work habits important to job entry. Students develop additional job skills in interior and exterior maintenance. Students continue to work at on- and off-campus sites as appropriate.

**ENTERPRISE PROGRAM 1-2**

Open course length, age 16 or above  
 Prerequisite: SPED staffing required  
 Recommendation: Experience in city bus transportation helpful  
 Population served: MIMR/ED and other students as appropriate, who need behavioral changes to progress to job readiness  
 Program hours: 8:00 - 12:00 PM daily  
 Location: Metro Tech High School

Enterprise is a hands-on work experience program designed to adjust student behaviors and shape attitudes appropriate in the working world. Making use of a structured four-level token economy system, and group counseling, the program assists students in making the transition from school to work. Classroom experience and on-campus work site provide training opportunities in functional academics and vocational skills.

**GENERAL TECHNOLOGY 1-2**

Offered every 6 weeks, grade level, age 16 or above  
 Prerequisite: Referral checklist forwarded to Metro Tech SPED  
 Recommendation: Experience in vocational lab course is helpful; students with behaviors that represent a danger in a lab setting are not encouraged to enroll  
 Population served: Cross-categorical students  
 Program hours: AM and PM sessions  
 Location: Metro Tech High School

This survey course is designed to assist vocational oriented SPED students to move into the mainstream of Metro Tech's occupational programs. The program enables students to improve behavior, attitudes and entry level vocational skills. Students will experience units including manufacturing, transportation, construction, photography, graphic arts and computers. Students work on jobs on and off campus when appropriate.

**GENERAL TECHNOLOGY 3-4**

Offered every 6 weeks, age 16 or above  
 Prerequisite: General Technology 1-2  
 Recommendation: Experience in vocational lab course is helpful; students with behaviors that represent a danger in a lab setting are not encouraged to enroll  
 Population served: Cross-categorical students  
 Program hours: AM and PM sessions  
 Location: Metro Tech High School

This intermediate course provides specialized training to SPED students in the repair of small machines.

**HORTICULTURE / NURSERY TECHNOLOGY 1-2**

Two-semester dual enrolled course, grade level 11, 12  
 Prerequisite: Counselor recommendation  
 Recommendation: Able to use public transportation  
 Program hours: AM and PM sessions

This course provides SPED students with job skills, responsibility skills and related academics necessary for success in the horticulture/gardening industry. It includes academic and experiential skills needed for nursery/greenhouse entry-level positions, e.g., plant/soil care maintenance, handling tools properly, job seeking skills and customer relations. Students work on jobs on and off campus when appropriate.

**JOBS-IN-INDUSTRY 1-2**

Offered every 6 weeks, age 16 or above  
 Prerequisite: SPED staffing/City bus experience  
 Recommendation: Previous job experience  
 Population served: Cross categorical students  
 Program hours: Varies with work site  
 Location: Local valley businesses

This competitive job training program is designed to help students obtain skills that are transferrable from the training site to paid employment. Training takes place at local hotels/resorts. Periodic reviews determine job readiness. Upon completion students will be recommended for job placement, employment at the training facility or transfer to other training sites.

**LEARN TO EARN WORK PROGRAM 1-2**

Offered every 6 week, age 16 or above  
 Prerequisite: SPED staffing required  
 Recommendation: Experience in city bus transportation helpful  
 Population served: Cross categorical handicapped students  
 Program hours: 7:00 - 2:30 (varies by department)  
 Location: Goodwill of Central Arizona

The Learn to Earn Work Program combines counseling, class work and hands-on experience in an industry environment (Goodwill Industries of Arizona) to develop appropriate work habits and attitudes. The goals of the program are to improve self-esteem, to increase job readiness and to aid in the transition from school to work. Students are paid a stipend based on productivity and are scheduled for work trial placements when appropriate.

**START PROGRAM 1-2**

**START PROGRAM 3-4**

Offered every 6 weeks, age 16 or above  
 Prerequisite: Counselor Recommendation (dual-enrolled); SPED staffing required (Metro only)  
 Population served: MOMR, MIMR and other students as appropriate  
 Program hours: 8:00 - 12:45 daily (Metro only) and AM and PM sessions  
 Location: Metro Tech High School

START operates Metro Tech's student union and offers on-campus training for exceptional needs students interested in future employment in laundry/linen, janitorial/sanitation, or culinary arts. With the goal of placing students in jobs or job trials, the length of training time varies with individual student needs. Students participate in field trips and related food service activities.



# NORTH

## High School

1101 East Thomas Road  
Phoenix, Arizona 85014  
(602) 764-6500 • [www.NorthHS.com](http://www.NorthHS.com)



Opened in 1939, North High School has a rich history of academic success within the Phoenix Union High School District. North is a comprehensive high school where all students are able to achieve an education which meets their specific needs. For academically gifted and motivated students, North High School offers the prestigious International Baccalaureate Program and has been an IB World School since 1985. For honors students, North offers a full complement of honors, AP, and dual enrollment courses. Other students benefit from diverse coursework including classes in the English for Language Learners Program, the Exceptional Student Program and over 125 electives. To date, North High boasts 88 National Merit Finalists and 97 National Merit Commendees, more than any other district school. North High has been recognized as one of the top high schools in the United States by Newsweek magazine and annually graduates students who exceed state and national standards.



## INTERNATIONAL BACCALAUREATE PROGRAM

### PROGRAM EMPHASIS:

The International Baccalaureate Program is aimed at the academically talented and highly motivated student. Its rigorous, comprehensive and integrated academic requirements lead to the earning of highly respected IB subject-area certificates or the prestigious IB diploma accepted in more than 40 foreign countries as a substitute for a national college entrance examination. IB students earn Honors credit as well as advanced standing or course credit at the college level.

Students interested in participating in the North High IB program must submit the following: comprehensive test scored indicating placement in the 88th percentile or higher; grades of A $\bar{3}$  or B $\bar{3}$  in the seventh and eighth grades; letters of recommendation from current, math, language arts, and social studies or science teachers. Successful candidates demonstrate a positive attitude towards education and are focused on receiving the best preparation possible for college.

## ENGLISH

The IB Language A1 (English in the U.S.) Program allows students to develop the ability to engage in close, detailed analysis of written text as well as to develop the students' power of expression, both in oral and written communication in English. Moreover, the IB English Program at North works to broaden the students' perspective through the study of works from other cultures and languages. These courses will fulfill the English graduation requirement for PUHSD.

### ENGLISH 1-2 IB PREP

Two-semester course, grade level 9  
Prerequisite: Admittance to the North High School IB Program

This is the first course in the four-level IB English track.

### ENGLISH 3-4 IB PREP

Two-semester course, grade level 10  
Prerequisite: English 1-2 IB

This is the second course in the four-level IB English track.

### ENGLISH 5-6 IB

Two-semester course, grade level 11  
Prerequisite: English 3-4 IB

This is the third course in the four-level IB English track. Students will write two World Literature papers and make an oral presentation which will be assessed by the International Baccalaureate Organization.

### ENGLISH 7-8 IB

Two-semester course, grade level 12  
Prerequisite: English 5-6 IB

This is the fourth course in the four-level IB English track. Students will prepare for the IB English examination in May.

## MATHEMATICS

The IB Mathematics Program will enable students to formulate mathematical arguments and communicate them clearly as well as read, interpret and solve given problems in appropriate mathematical terms. The IB Mathematics curriculum includes topics in algebra, functions and equations, circular functions and trigonometry, matrices, vectors, statistics and probability, and calculus.

### ALGEBRA 1-2 IB PREP

Two-semester course, grade level 9  
Prerequisite: Admittance to the North High School IB Program

This is the first course in the five-level IB mathematics track.

### ALGEBRA 3-4 IB PREP

Two-semester course, grade level 10, 11

Prerequisite: Accelerated Algebra/Geometry 1-2 IB

### ACCELERATED ALGEBRA / GEOMETRY 1-2 IB

Two-semester course, grade level 9  
Prerequisite: Admittance to the North High School IB Program

This course is designed for the student who has studied algebra at the eighth grade level, but requires additional preparation in algebra for the rigors of the IB mathematics program. Algebra 1-2 and Geometry 1-2 are combined and taught at an accelerated rate. Successful completion of this course will insure student mastery of the Arizona Mathematics Core Performance Objectives.

### GEOMETRY 1-2 IB PREP

Two-semester course, grade level 9, 10  
Prerequisite: Algebra 1-2 IB

This is the second course in the five-level IB mathematics sequence.

### PRE-CALCULUS 1-2 IB

Two-semester course, grade level 11, 12  
Prerequisite: Algebra 3-4 IB

This is the fourth course in the five-level IB mathematics sequence.

### CALCULUS 1-2 IB

Two-semester course, grade level 12  
Prerequisite: Pre-Calculus 1-2 IB

This is the fifth course in the IB mathematics sequence.

### CALCULUS 3-4 IB

Two-semester course, grade level 11, 12  
Prerequisite: Calculus 1-2 IB

This is the second year calculus course in the IB mathematics track. The course is designed to prepare students for the Higher Level Mathematics IB exam and depending on their individual test scores; students may earn concurrent or advanced college credit or placement.

### MATH STUDIES 1-2 IB

Two-semester course, grade level 12  
Prerequisite: Pre-Calculus 1-2 IB

This course is designed as an advanced level mathematics course for the student taking the Mathematics Studies IB mathematics exam in May of each academic year. The course will tie in all areas of mathematics including algebra, geometry, trigonometry, probability, statistics, matrices and mapping. Each student is required to do a 2000 word research paper using data that has been personally collected. This course requires little or no calculus preparation.

## PERFORMING ARTS

### IB PREP INTRO TO THEATER ARTS 1-2

Two-semester course, grade level 9,10

Prerequisite: Completion of the Theatre Arts IB 1-2 Course

This full-year course will be available to all North students who meet the prerequisites and are interested in completing more rigorous course work in theatre. There are five compulsory components in the course: Performance Skills, World Theatre Studies, Practical Play Analysis, Theatre Production and Individual Project. Students will study the forms theatre takes in cultures other than their own and, through this understanding, will better understand themselves, their society and their world.

### THEATRE ARTS 1-2 IB

Two-semester course, grade level 11, 12

Prerequisite: Prior coursework in Theatre Arts

This full-year course will be available to all North students who meet the prerequisites and are interested in completing more rigorous course work in theatre. There are five compulsory components in the course: Performance Skills, World Theatre Studies, Practical Play Analysis, Theatre Production and Individual Project. Students will study the forms theatre takes in cultures other than their own and, through this understanding, will better understand themselves, their society and their world.

### IB PREP INTERMEDIATE THEATER ARTS 1-2

Two-semester course, grade level 9,10

Prerequisite: Admission into the North High IB or Honors Programs and completion of the Introduction to theatre Arts NHS Pre-IB 1-2 Course.

The purpose of this year-long course is to give the student an increased appreciation of and additional experience in theatre as an art form. It is a precursor to the junior and senior Theatre Arts IB classes, where students have the opportunity to test in Higher Level Theatre Arts as one of their six IB tests. The student will act in pantomimes, plays, and play cuttings. Students will be introduced to technical theatre, history, and culture. The student will read, write, direct, analyze, and evaluate plays as well as view and discuss electronic and live performances. This course demands a high level of effort and commitment while encouraging enjoyment of creative expression. By creating, performing, analyzing and critiquing dramatic works, students develop a deeper understanding of themselves, their society and their world.

### THEATER ARTS 3-4 IB

Two-semester course, grade level 9,10

Prerequisite: Admission into the North High IB or Honors Programs and completion of the Introduction to theatre Arts NHS Pre-IB 1-2 Course.

The purpose of this year-long course is to give the student an increased appreciation of and additional experience in theatre as an art form. It is a precursor to the junior and senior Theatre Arts IB classes, where students have the opportunity to test in higher level Theatre Arts as one of their six IB tests. The student will act, direct, or be technically involved in scenes, one-act plays, or full length productions. Students will be continuing their study of technical theatre, history, and culture. The student will read, write, direct, analyze, and evaluate plays as well as view and discuss electronic and live performances. History, culture, and technology will be examined and career opportunities will be explored. This course demands a high level of effort and commitment while encouraging enjoyment of creative expression. By creating, performing, analyzing and critiquing dramatic works, students develop a deeper understanding of themselves, their society and their world.

## SCIENCE

A common curriculum model applies to all IB Experimental Science courses: biology, chemistry and physics. Courses in the IB Experimental Sciences curriculum will enable students to apply and use a body of knowledge, methods and techniques that characterize science and technology. IB Science students will develop extensive experimental and investigative skills as well as an ability to analyze, evaluate, and synthesize scientific information.

### FOUNDATIONS OF SCIENTIFIC INQUIRY 1-2 IB PRE

Two-semester course, grade level 9

Prerequisite: Admittance to the North High IB Program

This course is designed to develop a "tool kit" of concepts and skills that will be used and built upon in subsequent higher-level IB science courses, and ultimately taken into students' lives well beyond graduation. It is a freshman-level course (primarily for, but not limited to, those in the International Baccalaureate Program) that incorporates basic ideas and modes of thought common to all scientific disciplines in an enriched cross-disciplinary classroom environment. Core course objectives include: observation and measurement, development of research questions, experimental design, data collection and analysis, problem-solving (including reading for specific information), and written and oral communication in a scientific context. In addition, it is a survey course highlighting the most influential concepts of the past 400 years of scientific endeavor. Examples from fundamental concepts of biology, chemistry, and physics will be used as a substrate for the development of these ideas.

### BIOLOGY 1-2 IB PREP

Two-semester course, grade level 9

Prerequisite: Admittance to the North High School IB Program

This course is the first course in the IB Science track.

### BIOLOGY 3-4 IB

Two-semester course, grade level 11, 12

Prerequisite: Biology 1-2 IB and Chemistry 1-2 IB

This course prepares students for the IB Biology assessments.

### BIOLOGY 5-6 IB

Two-semester course, grade level 12

Prerequisite: Biology 3-4 IB

This is the required course for students wishing to take the Higher Level IB Biology exams. The course addresses the extended laboratory hours and additional higher level topics as outlined in the IB Biology syllabus.

### CHEMISTRY 1-2 IB

Two-semester course, grade level 10, 11, 12

Prerequisite: Geometry 1-2 IB or Accelerated Algebra/Geometry 1-2 IB, Biology 1-2 IB

Chemistry 1-2 IB Prep is a laboratory science course designed for students who wish to pursue a more challenging and quantitative approach to chemistry. The student will learn about matter, energy, and the composition of the universe. The major instructional areas are: identifying consistencies in experimental data, structure of matter as a key to chemical and physical properties, mole concept, and energy changes in matter, conservation of energy, equilibrium systems, and stoichiometric relationships. Laboratory work and the scientific method are emphasized. Research papers and individual laboratory research may be required. This course is the first in the IB Chemistry program at North High.

### CHEMISTRY 3-4 IB

Two-semester course, grade level 11, 12

Prerequisite: Chemistry 1-2 IB

This course prepares students for the IB Chemistry assessments.

**PHYSICS 1-2 IB**

Two-semester course, grade level 10, 11, 12  
 Prerequisite: Geometry 1-2 IB or Accelerated Algebra/Geometry 1-2 IB, Biology 1-2 IB

Physics 1-2 IB Prep is a laboratory science course designed for students who wish to pursue a more challenging approach to physics. Topics include: motion, forces, energy, waves, light, electricity, magnetism, radioactivity, mechanical energy, nuclear physics, and alternative energy sources. Major concepts are introduced through laboratory experiences. This course is the first in the IB Physics program at North High.

**PHYSICS 3-4 IB**

Two-semester course, grade level 11, 12  
 Prerequisite: Physics 1-2 IB, Algebra 3-4 IB

This course prepares students for the IB Physics assessments.

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**SOCIAL STUDIES**

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Social Studies courses are categorized as Individuals and Societies by the International Baccalaureate Organization. Courses in the IB Individuals and Society will encourage the systemic and critical study of human experience and behavior; physical, economic, and social environments; and the history and development of social and cultural institutions. Students in IB Individuals and Society courses will develop the capacity to identify, to analyze critically, and to evaluate theories, concepts and arguments about the nature and activities of the individual and society.

**WORLD HISTORY / GEOGRAPHY 1-2 IB NHS PRE IB**

Two-semester course, grade level 9  
 Prerequisite: Admittance to the North High School IB Program

This is the first of four courses in the IB "Individuals and Society" track which prepares students for IB examinations. Students successfully completing this course will be classified as having passed the state essential competencies covered in World History / Geography.

**WORLD GOVERNMENT AND ECONOMIC SYSTEMS 1-2 IB PREP**

Two-semester course, grade level 10  
 Prerequisite: World History / Geography 1-2 IB

This is the second course in the IB "Individuals and Society" track which prepares students for IB examinations. Students successfully completing this course will have satisfied the district's Government and Economics graduation requirement and will be classified as having passed. Students successfully completing this course will be classified as having passed the state essential competencies covered in these two courses.

**US / ARIZONA HISTORY 1-2 IB**

Two-semester course, grade level 11  
 Prerequisite: World Government & Economic Systems 1-2 IB

This is the third of four courses in the IB "Individuals and Society" track which prepares students for IB examinations. Students successfully completing this course will be classified as having passed the state essential competencies covered in US / Arizona History 1-2 and US / Arizona History 1-2 H.

**WORLD HISTORY / GEOGRAPHY 3-4 IB**

Two-semester course, grade level 12  
 Prerequisite: US / Arizona History 1-2 IB

This is the fourth course in the four course IB "Individuals and Society" track which prepares students for IB examinations in History.

**ECONOMICS 1-2 IB**

Two-semester course, grade level 12  
 Prerequisite: US / Arizona History 1-2 IB

This course prepares students for examinations in IB Economics.

**SOCIAL & CULTURAL ANTHROPOLOGY 1-2 IB**

Two-semester course, grade level 11, 12  
 Prerequisite: Concurrent enrollment in or successful completion of US / AZ History 1-2 IB

Social and Cultural Anthropology 1-2 IB will provide students with opportunities to become acquainted with global and local perspectives of such contemporary issues as war and conflict, the environment, poverty, problems of injustice, inequality and human rights. Students will complete a field research project incorporating two different data collection techniques as well as write a research report of 2000 words. This course will prepare students for the Social Cultural Anthropology IB examination.

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**VISUAL ART**

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The IB Visual Arts Program enables students to engage in both practical exploration and artistic production. Courses are designed to enable students to study visual arts in higher education and also to welcome students who seek life enrichment through visual arts. IB Visual Arts students prepare for a final juried art show where they are to demonstrate technical competence and artistic qualities that challenge and extend personal boundaries.

**ADVANCED ART 1-2 IB**

Two-semester course, grade level 11, 12  
 Prerequisite: Drawing/Painting 3-4

This course helps students prepare notebooks, sketchbooks, artworks for a senior IB show.

**ADVANCED ART 3-4 IB**

Two-semester course, grade level 12  
 Prerequisite: Advanced Art 1-2 IB

This course prepares students for the final juried assessment of all IB art research and completed art projects. Students will prepare for a final art show to be assessed by an IB visual arts examiner.

**ADVANCED ART 1-2 IB (PHOTOGRAPHY)**

Two-semester course, grade level 11, 12  
 Prerequisite: Photography 3-4

This course is designed to provide the IB photography student advanced skills and experiences necessary to meet the requirements of the IB Art and Design Examination. Studio Work and Higher Level Research are included.

**ADVANCED ART 3-4 IB (PHOTOGRAPHY)**

Two-semester course, grade level 12  
 Prerequisite: Advanced Photography 1-2 IB

This course prepares students for the final juried assessment of all IB photography research and completed photography projects. Students will prepare for a final photography show to be assessed by an IB visual arts examiner.

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**WORLD LANGUAGES**

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The IB Language B (World Languages) Program is a foreign language learning program with a focus on language acquisition and development. The study of literary and other texts will play an important part in this process. The IB World Language Program will offer insights into the culture of the country where the language is spoken.

**FRENCH 1-2 IB PREP**

Two-semester course, grade level 9  
Prerequisite: Admittance to the North High School IB Program

This is a first year course in French which has been designed to prepare students for IB French examinations.

**FRENCH 3-4 IB PREP**

Two-semester course, grade level 10  
Prerequisite: French 1-2 IB

This is a second year course in French which has been designed to prepare students for IB French examinations.

**FRENCH 5-6 IB**

Two-semester course, grade level 11  
Prerequisite: French 3-4 IB

This is a third year course in French which has been designed to prepare students for IB French examinations.

**FRENCH 7-8 IB**

Two-semester course, grade level 12  
Prerequisite: French 5-6 IB

This is a fourth year course in French which has been designed to prepare students for IB French examinations.

**FRENCH 9-10 IB**

Two-semester course, grade level 12  
Prerequisite: French 7-8 IB

This is a fifth year course in French which has been designed to prepare students for IB French examinations.

**SPANISH 1-2 IB PREP**

Two-semester course, grade level 9  
Prerequisite: Admittance to the North High School IB Program

This is a first year course in Spanish which has been designed to prepare students for IB examinations.

**SPANISH 3-4 IB PREP**

Two-semester course, grade level 10  
Prerequisite: Spanish 1-2 IB

This is a second year course in Spanish which has been designed to prepare students for IB examinations.

**SPANISH 5-6 IB**

Two-semester course, grade level 11  
Prerequisite: Spanish 3-4 IB

This a third year course in Spanish which has been designed to prepare students for IB examinations.

**SPANISH 7-8 IB**

Two-semester course, grade level 12  
Prerequisite: Spanish 5-6 IB

This is a fourth year course in Spanish which has been designed to prepare students for IB examinations.

**SPANISH 9-10 IB**

Two-semester course, grade level 9  
Prerequisite: Spanish 7-8 IB

This is a fifth year course in Spanish which has been designed to prepare students for IB examinations.

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**OTHER IB COURSES**

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**THEORY OF KNOWLEDGE 1-2 IB**

Two-semester course, grade level 11  
Prerequisite: Admittance to the North High School IB Program

Theory of Knowledge (TOK) is a flagship course in the IB Diploma Program and is a requirement for all North High School IB students. TOK challenges students and their teachers to reflect critically on diverse ways of knowing and areas of knowledge. Students complete a TOK essay (from the IB prescribed yearly title list) that is assessed by the International Baccalaureate Organization. Additional students must prepare an individual or group presentation that must focus on a contemporary issue where students apply TOK principles or concepts.

**THEORY OF KNOWLEDGE 3-4 IB**

Two-semester course, grade level 12  
Prerequisite: Theory of Knowledge 1-2 IB

This course will include further study of IB Theory of Knowledge (TOK) core requirements: knowledge issues, knowers and knowing; ways of knowing; areas of knowledge; and linking questions. (These issues are embedded in all semesters of TOK.) The main goals of this course will be to support students on the completion of the Creativity, Action, and Service requirements with special emphasis on connection of CAS activities with students' IB program courses. This course will include a series of experiences including, but not limited to, participation in group discussion, guest speaker presentations, internships, field trips, and development of leadership skills, career and vocational exploration. These opportunities will allow pursuits across interdisciplinary lines and/or greater depth in existing disciplines.

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**GENERAL ELECTIVES--  
NOT IB COURSES**

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**HUMANITIES EXPLORATION EXPERIENCE 1-2**

Two-semester course, grade level 9  
Prerequisite: None

The Exploration class will rotate Core students through classes in Foreign Language, Dance, Music, Fine Arts, Drama and Speech. High interest activities will be planned to spark enthusiasm, while introducing basic skills inherent to each program and reinforcing numerous academic/social skills for student success.

**SEMINAR FOR EXCELLENCE 1-2**

Two-semester course, grade level 9  
Prerequisite: None

The Seminar for Excellence will provide an opportunity to teach skills necessary for academic and social success. Areas addressed in this course include study and inquiry skills, human relations, ethics, character education, conflict resolution, multi-cultural awareness and prejudice reduction skills.

**THE GUIDES 1-2**

Two-semester course, grade level 11  
Prerequisite: None

This course is designed to give students the skills to be able to identify characteristics of the art, literature, customs and traditions of six Native American groups and to demonstrate learned docent skills through a presentation to museum patrons.



# SOUTH MOUNTAIN

## High School

5401 South 7th Street  
Phoenix, Arizona 85040  
(602) 764-5000 • [www.SouthMountainHS.org](http://www.SouthMountainHS.org)



South Mountain High School is the first and oldest high school in the South Mountain community, educating students since 1954. It is also home to five magnet programs—Aviation and Aerospace Education; Law-Related Studies; Performing Arts (dance, music and theatre); Visual Arts and Multimedia Communications. The school has its own art gallery, court room, radio station and simulated Air Traffic Control tower, as well as one of the largest and well-equipped auditoriums in the state. A full academic curriculum, including Advanced Placement, Honors and AVID (Advancement Via Individual Determination) is offered, as well as evening school. The well-rounded learning is evident in the success the South Mountain Academic Decathlon has achieved, qualifying for the State Championships in 20 of the past 21 years. The experienced teaching staff includes four National Board Certified teachers, and other award-winning instructors, and annually, excelling students earn over one million dollars in college scholarships. Because of the magnet programs, the arts flourish at South, from acting and dancing to sculpture and computer art. South Mountain also has a rich athletics tradition, winning 33 State Championships and sending many student-athletes to the college and professional ranks. A brand-new PE building, with exceptional training equipment is one example of South Mountain's commitment to educating the "whole" student. The South Mountain mission is to create a community of learners who are productive citizens in an every-changing society.

## CENTER FOR AVIATION / AEROSPACE EDUCATION

### PROGRAM EMPHASIS:

Students enrolling in Aviation/Aerospace will gain exposure to a variety of careers in the aviation field. They will experience aircraft engineering and design in the Aerospace Technical Lab. They will learn about the repair and maintenance of aircraft in Aircraft Maintenance Technology. In Air Traffic Control students will learn how to control air traffic. In Ground and Flight School they will work toward earning their FAA private pilot certificate in a single engine aircraft. The South Mountain High School Center for Aviation/Aerospace Education must adhere to all FAA, TSA and other state and federal regulations that govern flight, air traffic control, and aircraft maintenance training.

### GENERAL ELECTIVES

#### AEROSPACE SCIENCE 1-2

Two-semester course, grade level 9, 10  
Prerequisite: None

Aerospace Education provides the student with the basic concepts underlying the cultural and technological impact of aerospace.

#### AIRCRAFT MAINTENANCE TECHNOLOGY 1-2

Two-semester course, grade level 10, 11  
Prerequisite: None

This course will focus on the FAA General Section of the Airframe & Power Plant Exam. Students will prepare to take the test upon completion of the FAA requirements. Students will also take field trips to the Arizona Air National Guard facility at Sky Harbor International Airport. Students will be able to log the training time required for licensing toward an Airframe & Power Plant license.

#### AIRCRAFT MAINTENANCE TECHNOLOGY 3-4

Two-semester course, grade level 11, 12  
Prerequisite: Aircraft Maintenance Technology 1-2

This course will focus on the FAA Practical Section of the Airframe or Power Plant Exam. Students will prepare to take the test upon completion of the FAA requirements. This class will be taught at the Arizona Air National Guard facility at Sky Harbor International Airport to gain the practical training required by the FAA. Students will be able to log the training time required for licensing toward an Airframe or Power Plant license.

#### AIRCRAFT MAINTENANCE TECHNOLOGY 5-6

Two-semester course, grade level 11  
Prerequisite: None

This course will train students in aerospace manufacturing areas where they will produce parts for aviation equipment thereby enhancing their knowledge of structural design and developing their interest in different manufacturing areas. During this two-hour lab, students will use applied mathematics and test scientific principles in relationship to aerospace engineering.

#### AIR TRAFFIC CONTROL 1-2-

Two-semester course, grade level 10, 11, 12  
Prerequisite: Aerospace Science 1-2

This course is designed to provide students an introduction to the Air traffic Control profession. It offers an overview of the air traffic component of the National Airspace System (NAS). It develops an information base upon which a student can visualize the relationship between air traffic control, the other components of the NAS and the transportation industry. This course provides the student with hands-on experience regarding radio communications between the pilot and controller and interphone communications between ATC facilities. Proper terminology, phraseology and usage will be emphasized.

#### AIR TRAFFIC CONTROL 3-4-

Two-semester course, grade level 11, 12  
Prerequisite: Air Traffic Control 1-2

This course will examine the terminal and en route portions of the air traffic control systems and control of traffic using both radar and non-radar procedures. Emphasis will be on application of clearances and instruction to keep aircraft separated. The students will take the Control Tower Operator examination which will consist of airport traffic control procedures, flight assistance service, aviation weather, air navigation and en route control procedures. Students will obtain information and assistance to get hired in the air traffic control field or related aviation occupation.

#### AIR TRAFFIC CONTROL 5-6

Two-semester course, grade level 12  
Prerequisite: Air Traffic Control 3-4

This course will build on the skills obtained in Air Traffic Control 1-2 and 3-4. It will provide the student with studies into air traffic management and future developments into the air traffic control system.

#### FLIGHT SCHOOL 1-2

Two-semester course, grade level 12  
Prerequisite: Passing grade on the FAA private pilot written knowledge test, a current FAA Class III medical certificate, and all TSA documentation  
Two-hour lab

This course is designed to lead students to the successful completion of the FAA private pilot certificate (Airplane Single Engine Land). The syllabus is designed to first prepare the student in a flight simulator. After a few weeks the transition will be made to the single-engine aircraft at the airport.

#### GROUND SCHOOL 1-2

Two-semester course, grade level 11, 12  
Prerequisite: None

This course provides the student with the aerospace knowledge required to successfully complete the FAA private pilot written knowledge test. The content includes airplane systems, aerodynamics, aircraft performance, weight and balance, navigation, communication, aviation physiology, weather and weather services. This course satisfies the prerequisite for Flight School 1-2.

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# CENTER FOR MULTIMEDIA COMMUNICATIONS

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Courses in the Multimedia Communications Magnet are cumulative. This means that each semester must be successfully completed before a student may enroll in the next semester. If one semester is failed, the student must repeat and successfully complete that semester before he/she can advance to the next level.

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## GENERAL ELECTIVES

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### MULTIMEDIA COMMUNICATION 1-2

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

In Multimedia Communications 1-2 students will be introduced to the various media strands, including radio, video, film, print and web design. They will learn to define news, summarize facts, identify and research sources, and write news stories.

### MULTIMEDIA COMMUNICATION 3-4: PRINT JOURNALISM

Two-semester course, grade level 10, 11, 12  
Prerequisite: Multimedia Communication 1-2 or teacher approval

In Multimedia Communications 3-4 Print Journalism students will learn to locate and utilize appropriate information sources, practice and perfect interviewing skills, review current news industry trends, import and edit text, and create both print and web-based pages using the four basic elements of a story. Students will contribute news, entertainment and sports stories for both print and web versions of the *Southwinds* student newspaper.

### MULTIMEDIA COMMUNICATION 5-6: INTERMEDIATE PRINT JOURNALISM

Two-semester course, grade level 11, 12  
Prerequisite: Multimedia Communication 3-4 Print Journalism or teacher approval

In Multimedia Communications 5-6 Intermediate Print Journalism students will differentiate between reporting and opinion. They will learn good design elements and the processes behind generating story topics. They will create feature style writing and profiles, as well as personal reporter's web pages on which to publish their work. They will contribute news, sports, and entertainment articles for both the print and web versions of the *Southwinds* student newspaper.

### MULTIMEDIA COMMUNICATION 7-8

Two-semester course, grade level 12  
Prerequisite: Multimedia Communication 5-6 Intermediate Print Journalism or teacher approval

In Multimedia Communications 7-8 Advanced Print Journalism students will practice investigative and entertainment reporting skills. They will determine the importance of understanding libel and copyright laws and the use of censorship. Students will contribute news, entertainment and sports stories for both print and web versions of the *Southwinds* student newspaper. Students will actively collaborate with industry professional and investigate and pursue multimedia careers.

### MULTIMEDIA COMMUNICATION 3-4: RADIO BROADCAST JOURNALISM

Two-semester course, grade level 10, 11, 12  
Prerequisite: Multimedia Communication 2-1 or teacher approval

This multimedia course is a coordinated occupational approach to learning and practicing the concepts in the radio broadcast journalism industry. Students will study the impact of radio on society as well as basic radio terminology and production techniques, technical writing, and speech skills related to radio. They will also learn about the FCC and will produce radio shows that will go on the air and on the website. In addition to radio and web broadcasts, students will explore a variety of media for broadcasting radio shows.

### MULTIMEDIA COMMUNICATION 5-6: RADIO BROADCAST JOURNALISM

Two-semester course, grade level 10, 11, 12  
Prerequisite: Multimedia Communication 3-4 Radio Broadcast Journalism or teacher approval

This multimedia course is a coordinated occupational approach to learning and practicing the concepts in the radio broadcast journalism industry. Students will work with a broadcast team, master the production of a show in a radio station, learn air personality basics, interview for a news/feature story, learn current trends and issues in radio, and learn how to pitch a story.

### MULTIMEDIA COMMUNICATION 7-8: RADIO BROADCAST JOURNALISM

Two-semester course, grade level 12  
Prerequisite: Multimedia Communication 5-6 Radio Broadcast Journalism or teacher approval

This multimedia course is a coordinated occupational approach to learning and practicing the concepts in the radio broadcast journalism industry. Students will gain a greater mastery of equipment, will further develop speaking and writing skills, collaborate with professional radio broadcast journalists in the classroom and in the field with internships, will take on additional on-air responsibilities, explore multimedia careers and new formats of broadcast.

### MULTIMEDIA COMMUNICATION 3-4: VIDEO BROADCAST JOURNALISM

Two-semester course, grade level 10, 11, 12  
Prerequisite: Multimedia Communication 1-2

Video Broadcast Journalism is a coordinated occupational approach to learning and practicing the concepts in the video broadcast journalism industry. Students will learn basic video terminology and production techniques, write for broadcast television, and develop and improve speech skills as related to broadcast. They will identify FCC regulations and produce video programming ranging from news reports and programs, Public Service Announcements (PSA's) promotional videos, commercials, as well as film techniques.

### MULTIMEDIA COMMUNICATION 5-6: INTERMEDIATE VIDEO BROADCAST JOURNALISM

Two-semester course, grade level 11, 12  
Prerequisite: Multimedia Communication 3-4 Video Broadcast Journalism or teacher approval

Video Broadcast Journalism is a coordinated occupational approach to learning and practicing the concepts in the video broadcast journalism industry. Students will use learned skills to work as individuals and in a team to produce a weekly campus television program, Jaguar News. They will produce additional programming ranging from news reports and programs, Public Service Announcements (PSA's), promotional videos and commercials. Students may also get a chance to produce short films and documentaries.



## MULTIMEDIA COMMUNICATION 7-8: ADVANCED VIDEO BROADCAST JOURNALISM

Two-semester course, grade level 12  
Prerequisite: Multimedia Communication 3-4 and 5-6 Video Broadcast Journalism or teacher approval

Advanced Video Broadcast Journalism is a coordinated occupational approach to learning and practicing the concepts in the video broadcast journalism industry. Students will use learned skills to work at a high level as individuals and in a team to produce a weekly campus television news program, Jaguar News. They will also produce additional programming ranging from news reports and programs, Public Service Announcements (PSAs), promotional videos and commercials. Students will also produce short films and documentaries. Camera work, writing and production skills, and excelling in the workplace will be emphasized.

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## CENTER FOR LAW-RELATED STUDIES

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### PROGRAM EMPHASIS:

Students enrolling in the Center for Law-Related Studies will develop an understanding and appreciation of the role of law in society and the role of the citizen as an active participant in the democratic process. The curriculum emphasizes the development of basic skills, the exploration of professional career opportunities and academic preparation for higher education.

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## GENERAL ELECTIVES

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### AMERICAN LEGAL SYSTEM 1-2

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This course is designed for students enrolled in the Law-Related Studies Program at South Mountain High School. American Legal System provides practical information about our legal system and an overview of several areas of United States law. Students have many opportunities to discuss legal issues and problem solve questions. The curriculum includes case studies, review of statutes and constitutional law, role plays, small group exercises, and opinion polls. Optimal use will be made of community resources from a variety of law-related agencies.

### CRIMINALISTICS 1-2

Two-semester course, grade level 11, 12  
Prerequisite: American Legal System 1-2, Biology 1-2, Chemistry 1-2 or taking concurrently

Criminalistics is designed for students who are enrolled in the Center for Law-Related Studies at South Mountain High School. This lab-intensive course pursues a more in-depth study of human anatomy and physiology emphasizing forensic science and police science as concerned with the legal system and will be interdisciplinary within the Law Magnet.

## GOVERNMENT & LAW H

One-semester course, grade level 12  
Prerequisite: World History and Law H and US History and Law H  
This course meets the graduation requirement for Social Studies

Encompassing the objectives of the Law Magnet Government course, Government and Law H is for the honor student who wants an in-depth and enriched course research, reading and writing analysis within the Law Magnet Program. This course will offer students the opportunity to examine and implement moot court arguments before a panel of judges. Opportunities will be provided for students to read extensively and to analyze the structure and operation of the national government. Students will build upon legal foundations that were covered in prior Law Magnet coursework.

## LAW & PUBLIC SERVICE PRACTICUM 1

One-semester course, grade level 12  
Prerequisite: American Legal System 1-2  
Preferred: Mediation/Legal Ethics and Behavior 1

The Law Practicum is a one-semester course that combines on-site work/training experience with classroom instruction to better prepare our law-related students to work in a legal environment and meet the demands of the workplace. Students will be placed in the public or private sector for a minimum number of five hours per week.

## LEGAL ETHICS AND BEHAVIOR 1

One-semester course, grade level 11, 12  
Prerequisite: None

This course is designed for, but not limited to, students enrolled in the Center for Law-Related Studies. Its major emphasis will be the study of, and need for, ethics in a variety of law-related situations such as attorney-client relationship, ethical litigation, judicial ethics and others. In addition, students will be instructed in the proper etiquette in a variety of business and social settings.

## MEDIATION 1

One-semester course, grade level 11, 12  
Prerequisite: None

This social studies elective credit course is designed to meet the escalating needs of a diverse society. The course will develop in students Alternative Dispute Resolution methods, personal problem solving skills and conflict management techniques. A major goal of the course is to develop highly skilled peer mediators. Students will be trained as peer mediators and mediate disputes at South Mountain High School as part of this course.

## TRIAL PROCEDURES 1-2

Two-semester course, grade level 10  
Prerequisite: None

Trial Procedures is a two-semester course designed for 10th grade students enrolled in the Center for Law-Related Studies who are interested in learning trial procedures. All components of civil and criminal trial procedures will be studied. The course will make extensive uses of legal community resource persons.

## TRIAL PROCEDURES 3-4

Two-semester course, grade level 11, 12  
Prerequisite: Trial Procedures 1-2

This is an advanced mock trial class designed for students who intend to compete in mock trial competition. This class is the second portion of the Trial Procedures class. In this class, students will continue to develop advocacy skills in a real courtroom setting. Through mock trial cases, both civil and criminal, students will further develop their skills in all aspects of preparing for and conducting trials. Courtroom demeanor, including the importance of using dramatic techniques to persuade and influence the triers of fact, will also be discussed and demonstrated.



## **TRIAL PROCEDURES 5-6**

Two-semester course, grade level 12

Prerequisite: Trial Procedures 3-4

Advanced Trial Procedures 5-6 is a third year study of trial technique and procedures class designed for students who intend to compete in mock trial competition. In this class, students will continue to develop advocacy skills by implementing opening statements, closing arguments, direct examinations and Arizona Rules of Evidence in a real courtroom setting. All students in Advanced Trial Procedures 5-6 are required to compete in the regional mock trial competition. This class will further develop theory and theme in preparing and conducting trials. Students will practice and implement dramatic techniques to persuade and influence the triers of fact.

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## **SOCIAL STUDIES ELECTIVES**

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### **US / ARIZONA HISTORY & THE LAW 1-2**

Two-semester course, grade level 11

Prerequisite: None

This course fulfills the US/AZ History graduation requirement

This course is a study of the American people from the Colonial period to the present through an examination of their law and its development. The use of mock trials, oral arguments, congressional debates, written briefs and case studies will aid students in appreciation of our American heritage and the laws which have formed it.

### **US / ARIZONA HISTORY & THE LAW 1-2 H**

Two-semester block course, grade level 11

Prerequisite: Instructor approval

This course fulfills the US/AZ Govt graduation requirement

This course provides the honors student with an opportunity for an in-depth investigation of the factors and forces which have shaped America. This course is a study of the American people from the Colonial period to the present through an examination of their laws and development. Research is expected of students enrolled in this course. Literature resources are used to promote higher level learning experiences by requiring the students to utilize courtroom procedures in order to place the literature theories, characters, and motives on trial. The use of mock trials, research, oral arguments, congressional debates, written briefs and case studies will aid students in requiring higher level thinking skills and appreciation of US/AZ History and laws. This course is designed to provide students the opportunity to read extensively and to analyze historical laws and literature that support historical developments.

### **WORLD HISTORY & THE LAW 1-2**

Two-semester block course, grade level 10

Prerequisite: None

This course fulfills the US/AZ Govt graduation requirement

This course is designed to provide students with the skills and knowledge to understand major concepts, characteristics, legal aspects, research, events and people of history. The course will include an overview of Western civilizations and early law developments from 1700 B.C. - 399 B.C., world law developments of 1500 - present, trade and business laws in civilizations and major war overviews from 1914 - present. Laws based upon economic and political developments, geographic concepts, law belief systems and cultural contributions to law are integrated into the curriculum. The outline provided is based on the Arizona State Social Studies Standards.

## **WORLD HISTORY & THE LAW 1-2 H**

Two-semester block course, grade level 11

Prerequisite: Instructor approval

This course fulfills the US/AZ Govt graduation requirement

This course is designed to provide students with the skills and knowledge to understand major concepts, characteristics, legal aspects, research, events and people of history. The World History and The Law 1-2 Honors course provides the student with an opportunity to do an in-depth study of the economic, social, political and diplomatic aspects of world civilizations from the 1500s to the present. Literature resources are used to promote higher level learning experiences by requiring the students to utilize courtroom procedures in order to place the literature theories, characters and motives on trial. The use of mock trials, research, oral arguments, debates, written briefs and case studies will aid students in requiring higher level thinking skills and appreciation of World History and laws. This course is designed to provide students the opportunity to read extensively and to analyze historical laws and literature that support historical developments.

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## **CENTER FOR PERFORMING ARTS**

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### **PROGRAM EMPHASIS:**

Students enrolled in the Center for the Performing Arts bring with them commitment, desire and determination: key ingredients needed whether they choose to pursue Dance or Theater or Music. Unparalleled learning situations are provided through use of state of the art equipment, nationally and internationally recognized artists as guest teachers, field trips and community performances.

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## **PERFORMING ARTS**

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### **DANCE LEVEL I: TECHNIQUE & PERFORMANCE LAB 1-2**

Two-semester course, two-hour magnet course, grade level 9, 10, 11, 12

Prerequisite: None

This is a beginning level course for students interested in an intensive dance workout, with an interest in a dance career. Studies emphasize ballet and modern dance technique, jazz and tap dance technique, improvisation and composition, and include terminology, career opportunities, dance history, production, performance, anatomy, fitness and nutrition. Guest artists, field trips and performance experiences are included in the curriculum.

### **DANCE LEVEL II: TECHNIQUE & PERFORMANCE LAB 1-2**

Two-semester, two-hour magnet course; grade level 9, 10, 11, 12

Prerequisite: Dance Level I and Audition and/or Instructor approval

This course provides for the continuing progress of students who have had previous dance training and have an interest in college dance programs or a dance career. Studies will include ballet and modern dance technique and terminology, improvisation and choreography, jazz and tap dance technique and terminology, career opportunities, dance history, production, performance, anatomy, fitness and nutrition. Guest artists, field trips and performance experiences are included in the curriculum.

**DANCE LEVEL III & PERFORMANCE****LABORATORY 1-2**

Two-semester course, two-hour magnet, grade level 10, 11, 12  
Prerequisite: Dance Level II and Audition and/or Instructor approval

This course is designed to meet the needs of students who have achieved an intermediate level of skill and have an interest in dance and college careers. Technique studies will include Modern, Ballet, Tap, Jazz and optional technique units. Lab studies will include Choreography, Improvisation, Dance Production, Dance History, Anatomy and optional lab units. A portion of this class will be experiences with various guest artists as well as field trips. Performance opportunities will be made available.

**DANCE LEVEL IV & PERFORMANCE****LABORATORY 1-2 H**

Two-semester course, two-hour magnet, grade level 10, 11, 12  
Prerequisite: Dance Level III and Audition and/or Instructor approval

This course is designed to meet the needs of students who have achieved an advanced level of skill and have an interest in dance and college careers. Technique studies will include Modern, Ballet, Tap, Jazz and optional technique units. A portion of this class will be experiences with various guest artists as well as field trips and travel. The students in this course become members of the South Mountain Center for the Arts Dance Company. Lab consists of Choreography, Repertory, Touring, Dance History and Portfolio Production.

**DRAMA LEVEL I: INTRO TO THEATRE 1-2**

Two-semester course, two-hour magnet, grade level 9, 10, 11, 12  
Prerequisite: None

The purpose of this year-long course is to give the student an appreciation of and experience in theatre as an art form. The student will act in pantomimes, plays and play cuttings. Students will be introduced to technical theatre, theatre history and culture. The student will read, write and evaluate plays as well as view and discuss electronic and live performances.

**DRAMA LEVEL II: PERFORMANCE TECHNIQUES & PLAY STUDY 1-2**

Two-semester course, two-hour magnet, grade level 10, 11, 12  
Prerequisite: Drama Level I or Instructor approval

The purpose of this yearlong, repeatable course is to give the student an increased appreciation of and additional experience in theatre as an art form. The student will act, direct, or be technically involved in scenes, one-act plays and full length productions. They will read, write and evaluate plays as well as view and critique electronic and live performances. History, culture and technology will be examined and career opportunities will be explored. Through creating theatre, students will grow in their ability to comprehend the world and to communicate with others.

**DRAMA LEVEL III: ACTING STYLES & TECHNIQUES 1-2**

Two-semester course, two-hour magnet, grade level 10, 11, 12  
Prerequisite: Drama Level II or Instructor approval

This year-long course will focus on developing a variety of acting styles, in various theatrical genres, while exploring the techniques and philosophies of master acting teachers such as Stanislavski, Meisner, Grotowsky, etc. Students will be involved in every aspect of theatrical production for several performances during the year. Curriculum will emphasize collaboration in performance, self-evaluation and integration of interdisciplinary art forms.

**DRAMA LEVEL IV: REPERTORY THEATRE 1-2 H**

Two-semester course, two-hour magnet, grade level 11, 12  
Prerequisite: Drama Level III and audition/interview

Students will have the opportunity to study their craft among peers and the professional guest artists who share their same disciplines. The major goal of the class will be to gain experience in all aspects of theatre while producing quality theatrical performances for the school and community.

**MUSIC LEVEL I 1-2**

Two-semester course, two-hour magnet, grade level 9, 10, 11  
Prerequisite: None

This course is required for all entering Magnet Music students. It is designed to provide a strong foundation in basic music skills, with an emphasis on learning to read music. Students will receive instruction in theory, piano, guitar and string ensembles. Concurrent enrollment in either Band or Choir is strongly recommended. One public performance per semester will be required.

**MUSIC LEVEL II 1-2**

Two-semester course, two-hour magnet, grade level 10, 11, 12  
Prerequisite: Music Level I or instructor approval

This course is designed to meet the needs of the intermediate level music students, building on concepts learned in Level I. All students will participate in the jazz ensemble and at least one other class ensemble (auditions required). This course includes several public performances. Concurrent enrollment in either Band or Choir is strongly recommended. Participation in the Solo & Ensemble Festival/Regional Audition is encouraged.

**MUSIC LEVEL III 1-2**

Two-semester course, two-hour magnet, grade level 11, 12  
Prerequisite: Music Level II

This course is designed to meet the needs of the college bound music student. Advanced music theory and the basics of composition will be taught. "Hands on" experience in our state-of-the-art recording studio will be available. Private instruction on each student's instrument of choice will be provided. All students will participate in a jazz ensemble and at least one other class ensemble (auditions required). This course includes several public performances and concurrent enrollment in either Band or Choir is strongly recommended. Participation in Solo & Ensemble Festival/Regional Audition is expected.

**MUSIC LEVEL IV 1-2 H**

Two-semester course, two-hour magnet, grade level 12  
Prerequisite: Music Level III

This course is designed to meet the needs of students preparing for a career in the music industry. Advanced composition and arranging will be taught. Students will learn to record, mix and edit in our state-of-the-art recording studio. Private instruction on each student's instrument of choice will be provided. All students will participate in a jazz ensemble and at least one other class ensemble (auditions required). This course includes several public performances including festival competitions. Concurrent enrollment in either Band or Choir is expected. Participation in Solo & Ensemble Festival/Regional Audition is required.

**MUSICAL THEATRE 1-2**

Two-semester course, two-hour magnet, grade level 9, 10, 11, 12  
Prerequisite: None

This interdisciplinary course will combine elements of dance, music and theatre to give the student experience performing in the Musical Theatre genre. Students will read, watch and perform a variety of musicals from the 20th and 21st centuries. They will learn basic dance and acting skills as they are used by musical theatre performers. There is an emphasis on reading music and singing with correct diction, posture, breathing and tone, in large groups, small ensembles, duets and solos. Every student will participate in public performances each semester. This course may be repeated for credit.

**MUSICAL THEATRE 3-4**

Two-semester course, two-hour magnet, grade level 10, 11, 12  
Prerequisite: Musical Theatre 1-2 or Instructor approval

This course is a continuation of the skills learned in introductory Performing Arts classes. Students will work to improve their singing voice, acting abilities and dance skills while performing the Musical Theatre genre.

## MUSICAL THEATRE 5-6

Two-semester course, two-hour magnet, grade level 11, 12  
Prerequisite: Musical Theatre 3-4 or Instructor approval

This course is a continuation of the skills learned in the 3-4 class. Students will work to improve their singing voice, acting abilities and dance skills while performing the Musical Theatre genre.

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# CENTER FOR VISUAL ARTS

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## PROGRAM EMPHASIS:

Students enrolled in the Center for Visual Arts are encouraged to be creative. Here they are given the opportunity to express these creative thoughts and feelings with a sense of pride. They are provided with all the tools and supplies necessary to develop their own personal style in ceramics, computer art, drawing/painting, jewelry/fiber arts, humanities (general art), photography and sculpture.

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## VISUAL ART

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### ADVANCED ART STUDIO:

#### CERAMICS 1-2

Two-period block

Two-semester course, grade level 10, 11, 12

Prerequisite: Ceramics 1-2, Instructor approval

This course is for the student who wishes to specialize in the field of ceramics as a professional artist or production potter. It includes advanced study in all areas of the ceramic arts including: clay and glaze production, manufacturing techniques, artist's studio visits, and creating art for retail business. Students will focus on developing a personal aesthetic, continued improvement in craftsmanship and the study of contemporary ceramics as a fine art. Development of professional-level portfolios for college acceptance and post-secondary opportunities will be emphasized. Dual enrolment for community college credit is offered.

### ADVANCED ART STUDIO:

#### COMPUTER ART 1-2

Two-period block

Two-semester course, grade level 10, 11, 12

Prerequisite: Computer Art 1-2 or Instructor approval

This course offers a study of computer hardware and software for the purpose of creating works of art. Students will be able to work with state-of-the-art equipment and software and are introduced to varied graphics programs that emphasize two- and three-dimensional computer graphics. At an advanced level, students are encouraged to think critically and make sound design decisions. The expectations for artistic achievement in the course are high.

### ADVANCED ART STUDIO:

#### DRAWING & PAINTING 1-2

Two-period block

Two-semester course, grade level 10, 11, 12

Prerequisite: Drawing & Painting 1-2 or 3-4 or Instructor approval

This course accentuates advanced drawing and painting skills using traditional and contemporary techniques and concepts; with emphasis on the understanding of its formal language and the fundamentals of artistic expression. Students will develop a critical eye in evaluation through the study of major drawing and painting styles, and movements in historical context. This course will prepare students going to college or pursuing a professional fine-arts career.

### ADVANCED ART STUDIO:

#### JEWELRY & FIBER ARTS 1-2

Two-period block

Two-semester course, grade level 10, 11, 12

Prerequisite: Jewelry & Fiber Arts 1-2 or Instructor approval

Designed for the student who wishes to specialize in jewelry and/or fiber arts as a serious field of study. Students will use wide variety of media, techniques and tools in creating artistic personal expression. Emphasis will be on idea generation and craftsmanship. The expectations for artistic achievement in this course are high. Dual enrolment for community college credit is offered.

### ADVANCED ART STUDIO:

#### PHOTOGRAPHY 1-2

Two-period block

Two-semester course, grade level 10, 11, 12

Prerequisite: Photography 1-2 or Instructor approval

Designed for the serious photography student, this course emphasizes conceptually based fine art photography. Students will work at an advanced level and have the opportunity to learn how to print and prepare their work for exhibitions. Students will be exposed to the work of professional artists via visits to museums, galleries, artist's studios and/or presentations by visiting artists. Students will be expected to maintain a sequential portfolio of their best work. Dual enrolment for community college credit is offered.

### ADVANCED ART STUDIO:

#### SCULPTURE 1-2

Two-period block

Two-semester course, grade level 10, 11, 12

Prerequisite: Sculpture 1-2 or 3-4 or Instructor approval

This course involves the study of the history of sculpture, traditional and contemporary methods and processes. Emphasis will be focused on expression of individual ideas and craftsmanship. Heavy equipment and highly specialized tools are employed in creating sculpture from metal, stone, wood, plaster and mixed media. Dual enrollment for community college credit is offered.

### ART CAREERS & GALLERY MANAGEMENT 1-2

Two-semester course, grade level 10, 11, 12

Prerequisite: None

Working with the South Mountain Visual Arts Magnet Art Gallery as a laboratory, students will learn to catalog works, set up displays, hang exhibitions, gallery housekeeping and conduct exhibition tours. In the classroom setting, a study of art vocations will be explored. The development of student awareness concerning scholastic achievements and professional skills will be stressed.

### CERAMICS 5-6

Two-semester course, grade level 11, 12

Prerequisite: Ceramics 3-4 or instructor approval

This advanced level course provides the opportunity for students to become familiar with basic production techniques; kiln firing and alternative processes; advanced proficiency on the potter's wheel; further development of aesthetic and functional design in three-dimensional products; explore college programs and career opportunities; participate with local artists; and explore ceramic processes in engineering, architecture and electronic technology. Dual enrolment for community college credit is offered.

**COMPUTER ART 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This course offers a study of computer hardware and software for the purpose of creating works of art. Emphasis is on the elements and principles of design as they relate to two-dimensional and three-dimensional computer graphics. Students are encouraged to think critically and make sound design decisions.

**JEWELRY & FIBER ARTS 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This is an introductory course in design and production of functional and nonfunctional items using material and techniques found in jewelry and fiber crafts. Applied surface design techniques will be explored. Also studied will be traditional techniques and their cultures as well as contemporary technological methods of creating. Emphasis is on design and craftsmanship.

**JEWELRY & FIBER ARTS 3-4**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Jewelry & Fiber Arts 1-2 or Instructor approval

This course provides an opportunity for further development of skills in design and the production of functional and nonfunctional craft objects. Students will broaden their understanding of this area by combining multiple materials and techniques creating mixed-media art. Advanced surface design techniques will also be explored. Emphasis will be on unique and creative work promoting high standards in craftsmanship.

**SCULPTURE 1-2**

Two-semester course, grade level 9, 10, 11, 12  
Prerequisite: None

This is a foundation course that will introduce students to the four basic sculpting processes. It will provide an opportunity for creative expression in a variety of materials. Emphasis will be given to idea generation, craftsmanship and the development of tool skills and safety.

**SCULPTURE 3-4**

Two-semester course, grade level 10, 11, 12  
Prerequisite: Sculpture 1-2 or Instructor approval

This course continues the study of the basic concepts of three-dimensional form, tool skills, and safety. Student selection of materials and individual expression will be encouraged. Discussion will include how an idea is begun and brought to conclusion using content, form, and materials.

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**FAMILY AND CONSUMER SCIENCES**

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**COSTUME DESIGN AND CONSTRUCTION 1-2**

Two-semester course, grade level 10, 11, 12

This course will help students develop the skills to design and construct a costume. They will also gain an understanding of the historical silhouette of costume design and become exposed to the various careers in costuming.



# SUNS-DIAMONDBACKS

## Education Academy

2920 North 7th Street  
Phoenix, Arizona 85012  
(602) 764-0050 • [www.SunsDiamondbacks.org](http://www.SunsDiamondbacks.org)



SUNS-DIAMONDBACKS

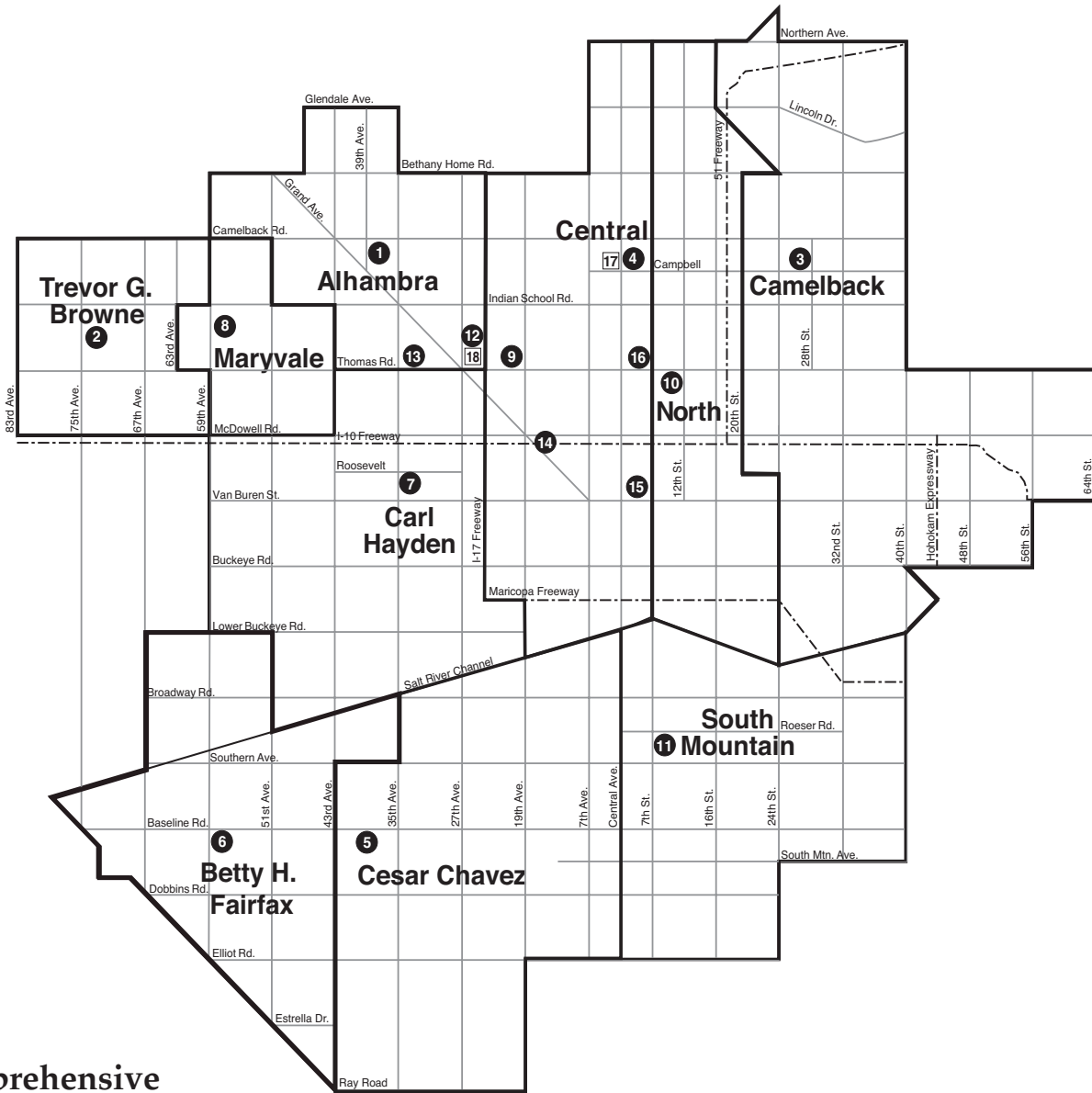
Suns-Diamondbacks Education Academy, (SDEA), in cooperation with our families and educational partners will provide quality personalized learning programs to prepare every student for success in college, career, and life.

### GENERAL INFORMATION

SDEA is intended for juniors and seniors who have fallen behind in their credits. Students are selected for admission based on transcript, discipline and an interview process. Students are admitted at the start of each 6-week term and there are six 6-week terms in the school year. The daily class schedule consists of two 145 minute classes. Regular classes are offered in Math, English, Social Studies, Business & Computer, Science, Health, as well as a limited selection of electives. Some SPED students are offered regular classes with minimum assistance and resource. Students earn extra credits by earning the right to attend Metro Tech Evening school classes as part of their schedule. Student athletes are encouraged to compete with their home schools. Graduation is twice a year, at the end of each semester.



# BOUNDARIES OF THE PHOENIX UNION HIGH SCHOOL DISTRICT



## Comprehensive High Schools

- 1. Alhambra High School**  
3839 West Camelback Road  
Phoenix, Arizona 85019
- 2. Trevor G. Browne High School**  
7402 West Catalina Drive  
Phoenix, Arizona 85033
- 3. Camelback High School**  
4612 North 28th Street  
Phoenix, Arizona 85016
- 4. Central High School**  
4525 North Central Avenue  
Phoenix, Arizona 85012
- 5. Cesar Chavez High School**  
3921 West Baseline Road  
Laveen, Arizona 85339

- 6. Betty Fairfax High School**  
8225 South 59th Avenue  
Laveen, Arizona 85339
- 7. Carl Hayden Community High School**  
3333 West Roosevelt Street  
Phoenix, Arizona 85009
- 8. Maryvale High School**  
3415 North 59th Avenue  
Phoenix, Arizona 85033
- 9. Metro Tech High School**  
1900 West Thomas Road  
Phoenix, Arizona 85015
- 10. North High School**  
1101 East Thomas Road  
Phoenix, Arizona 85014

- 11. South Mountain High School**  
5401 South 7th Street  
Phoenix, Arizona 85040

## Small Schools

- 12. Bostrom High School**  
3535 North 27th Avenue  
Phoenix, Arizona 85017
- 13. Desiderata Program**  
2918 N. 34th Drive  
Phoenix, Arizona 85017
- 14. Franklin Police and Fire High School**  
1645 West McDowell Road  
Phoenix, Arizona 85007

- 15. Phoenix Union Bioscience High School**  
512 East Pierce  
Phoenix, AZ 85004

- 16. Suns-Diamondbacks Education Academy**  
2920 North 7th Street  
Phoenix, Arizona 85014

## Support Facilities

- 17. Center for Educational Services**  
4502 North Central Avenue  
Phoenix, Arizona 85012
- 18. District Services Facility**  
2526 West Osborn Road  
Phoenix, Arizona 85017

# ATTENDANCE ZONES

## **ALHAMBRA HIGH SCHOOL**

East on Glendale Avenue from 47th Avenue to 35th Avenue, South on 35th Avenue to Bethany Home Road, east on Bethany Home Road to the Black Canyon Freeway, south on the Black Canyon Freeway to Thomas Road, west on Thomas Road to 43rd Avenue, north on 43rd Avenue to Indian School Road, west on Indian School Road to 51st Avenue, north on 51st Avenue to Camelback Road. west on Camelback Road to 59th Avenue, north on 59th Avenue to Bethany Home Road, east on Bethany Home Road to 47th Avenue, north on 47th Avenue to Glendale Avenue.

## **TREVOR G. BROWNE HIGH SCHOOL**

East on Camelback Road from 83rd Avenue to 59th Avenue, south on 59th Avenue to Indian School Road, west on Indian School Road to 63rd Avenue, south on 63rd Avenue to Thomas Road, east on Thomas Road to 59th Avenue, south on 59th Avenue to McDowell Road, west on McDowell Road to 83rd Avenue, north on 83rd Avenue to Camelback Road.

## **CAMELBACK HIGH SCHOOL**

Northeast on Northern Avenue from 16th Street to Dreamy Draw Drive, south on Dreamy Draw Drive to the Southern Section line of Section 34 (Pleasant Drive, due east from this point along an imaginary line to 40th Street, south on 40th Street to Thomas Road, east on Thomas Road to 64th Street, south on 64th Street to Van Buren Street, west on Van Buren Street to 56th Street, south on 56th Street to Buckeye Road, west on Buckeye Road to 40th Street, South on 40th Street to the Salt River Channel, west on the Salt River Channel to 24th Street, North on 24th Street to Roosevelt, west on Roosevelt to 20th Street, north on 20th Street to Bethany Home Road, east on Bethany Home Road to the Arizona Canal, northwest along the Arizona Canal to Glendale Avenue, west on Glendale Avenue to 16th Street, north on 16th Street to Northern Avenue.

## **CESAR CHAVEZ HIGH SCHOOL**

East on Southern Avenue from 43rd Avenue to 35th Avenue, north on 35th Avenue to the Salt River Channel, northeast along the Salt River Channel to Central Avenue, south on Central Avenue to Elliot Road, west on Elliot Road to 19th Avenue, south on 19th Avenue to Ray Road, west on Ray Road to 43rd Avenue, north on 43rd Avenue to Southern Avenue.

## **CENTRAL HIGH SCHOOL**

East on Northern Avenue from 7th Avenue to 7th Street, south on 7th Street to the Salt River Channel, west along the Salt River Channel to 19th Avenue, north on 19th Avenue to the Black Canyon Highway, north on the Black Canyon Highway to Bethany Home Road, east on Bethany Home Road to 7th Avenue, north on 7th Avenue to Northern Avenue.

## **BETTY FAIRFAX HIGH SCHOOL**

Northeast along the Salt River Channel from the imaginary point of the intersect of 83rd Avenue and the Salt River Channel to 67th Avenue, north on 67th Avenue to Lower Buckeye Road, east on Lower Buckeye Road to 51st Avenue, south on 51st Avenue to the Salt River Channel, east along the Salt River Channel to 35th Avenue, south on 35th Avenue to Southern Avenue, west on Southern Avenue to 43rd Avenue, south on 43rd Avenue to Ray Road, west on Ray Road to the boundary of the Gila River Indian Reservation, northeast along the boundary of the Gila River Indian Reservation to the imaginary point of the intersect of 83rd Avenue and the Salt River Channel.

## **CARL HAYDEN COMMUNITY HIGH SCHOOL**

East on Thomas Road from 43rd Avenue to the Black Canyon Freeway, south on the Black Canyon Freeway to 19th Avenue, south on 19th Avenue to the Salt River Channel, west on the Salt River Channel to 51st Avenue, north on 51st Avenue to Lower Buckeye Road, west on Lower Buckeye Road to 59th Avenue, north on 59th Avenue to McDowell Road, east on McDowell Road to 43rd Avenue, north on 43rd Avenue to Thomas Road.

## **MARYVALE HIGH SCHOOL**

East on Camelback Road from 59th Avenue to 51st Avenue, south on 51st Avenue to Indian School Road, east on Indian School Road to 43rd Avenue, south on 43rd Avenue to McDowell Road, west on McDowell Road to 59th Avenue, north on 59th Avenue to Thomas Road, west on Thomas Road to 63rd Avenue, north on 63rd Avenue to Indian School Road, east on Indian School Road to 59th Avenue, north on 59th Avenue to Camelback Road.

## **METRO TECH HIGH SCHOOL**

No specific boundaries. Any student living within the PUHSD boundaries may attend Metro Tech, a magnet high school.

## **NORTH HIGH SCHOOL**

East on Northern Avenue from 7th Street to 15th Street, continue due east to 16th Street, south on 16th Street to Glendale Avenue, east on Glendale Avenue to the Arizona Canal, southeast along the Arizona Canal to Bethany Home Road, west on Bethany Home Road to 20th Street, south on 20th Street to Roosevelt, east on Roosevelt to 24th Street, south on 24th Street to the Salt River Channel, west along the Salt River Channel to 7th Street, north on 7th Street to Northern Avenue.

## **SOUTH MOUNTAIN HIGH SCHOOL**

East along the Salt River Channel from Central Avenue to 40th street, south on 40th Street to South Mountain Avenue, west on South Mountain Avenue to 24th Street, south on 24th Street to Dobbins Road, west on Dobbins Road to 16th Street, South on 16th Street to Elliot Road, west on Elliot Road to Central Avenue, north on Central Avenue to the Salt River Channel.



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# COMMUNITY COLLEGE / UNIVERSITY ENTRANCE REQUIREMENTS

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The requirements for community college, college/university entrance differ with the various colleges/universities. Students, therefore, are urged to be aware of the entrance requirements of the college/university they plan to attend upon graduation from high school. This information may be obtained directly from the college/university the student has in mind, from the high school career center, or from the student's counselor. See below for a detailed explanation of state university entrance requirements in Arizona.

NOTE: ACT or SAT examination may be required for admission, and/or placement to the state universities. The ASSET test is required for placement in English, Reading and Math in a Maricopa County community college.

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## ARIZONA STATE UNIVERSITY, NORTHERN ARIZONA UNIVERSITY, AND UNIVERSITY OF ARIZONA ENTRANCE REQUIREMENTS

### 1998 BOARD OF REGENTS ACADEMIC COMPETENCY REQUIREMENTS

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#### **ENGLISH** (grammar, composition, literary analysis)

4 years/units

Note: Courses such as journalism, business communications, speech and any others not devoted exclusively to the study of English may not be substituted for an English course.

#### **MATHEMATICS**

4 years/units

Algebra I, II; geometry; any advanced math course for which Algebra II is a prerequisite — pre-calculus, calculus, analytical geometry

#### **LABORATORY SCIENCE** (biology, chemistry, physics, earth and space science)

3 years/units

One unit in at least three of the four areas is recommended, although an advanced level (AP or honors) course in a subject area completed previously can be used for a third unit.

#### **SOCIAL STUDIES**

2 years/units

One year/unit of history (including at least one course in American history) and one year/unit of an additional social science such as geography, government, psychology, anthropology, European or world history, economics or sociology.

#### **WORLD LANGUAGES** (Including American Sign Language)

2 years/units

Two units of the same foreign language; a third year is recommended.

#### **FINE ARTS**

One year/unit in fine arts or any combination of two semesters of fine art courses.

#### **MEETING ACADEMIC COMPETENCY REQUIREMENTS**

Note: Students must earn a cumulative grade-point average of 2.0 (on a 4.0 scale) in each subject area to meet the academic competency requirements. A lower grade-point average is equal to one deficiency. Beginning in summer/fall 1996, deficiencies in both math and lab science will not be acceptable.

#### **IF STUDENTS NEED TO FULFILL:**

1 unit in one or two different subject areas (except math and science):

Course work may be completed during the first year at the university or through summer school or a community college. Additional course work required by a college major is not considered part of the Board of Regents' requirements for admission and may either be completed before enrollment or during the student's first year.

*Remember: Students must complete all course work requirements within one calendar year of their first enrollment or they will not be permitted to register for subsequent terms. Beginning in 1998, admission will be based on the grade-point average of the 16-unit Arizona Board Of Education requirements, not the entire curriculum.*

<b>GRADUATION REQUIREMENTS</b> (Beginning with the Graduating Class of 2006)		
<b>Units</b>	<b>Year of Graduation</b>	
	<b>2006 - 2012</b>	<b>2013 and beyond</b>
3 English		
4 English	X	X
1 Math		
2 Math		
3 Math	X	
4 Math		X
1 Lab Science		
2 Lab Science	X	
3 Lab Science		X
.5 Health Education	X	X
2 Social Studies		
2.5 Social Studies		
3 Social Studies	X	X
1 Humanities/Fine Arts		
1 Practical Arts/CTE		
1 Fine Arts OR CTE	X	X
Reading Proficiency on AIMS	X	X
Math Proficiency on AIMS	X	X
Writing Proficiency on AIMS	X	X
Technology Proficiency	X	X
<b>TOTAL Requirements</b>	<b>13.5</b>	<b>15.5</b>
<b>TOTAL Electives</b>	<b>6.5</b>	<b>6.5</b>
<b>TOTAL Units for Graduation</b>	<b>20.0</b>	<b>22.0</b>



**PHOENIX UNION**  
High School District

# Student and Family Portfolio

Name \_\_\_\_\_ Class of \_\_\_\_\_  
Student Number \_\_\_\_\_ Counselor \_\_\_\_\_

PUHSD Graduation Requirements (Classes of 2011, 2012)	PUHSD Graduation Requirements (Classes of 2013, 2014)	Arizona University Requirements for Assured Admission
English 4.0 credits	English 4.0 credits	English 4.0 credits
Social Sciences 3.0 credits	Social Sciences 3.0 credits	Social Sciences 2.0 credits
Math 3.0 credits	Math 4.0 credits	Math 4.0 credits
Science 2.0 credits	Science 3.0 credits	Science 3.0 credits
Health 0.5 credit	Health 0.5 credit	Fine/Performing Arts 1.0 credit
Career & Tech Education 1.0 credit	Career & Tech Education 1.0 credit	World Language 2.0 credits
Fine/Performing Arts 6.5 credits	Fine/Performing Arts 6.5 credits	in same language
<b>TOTAL CREDITS</b> 20.0 credits* (minimum)	<b>TOTAL CREDITS</b> 22.0 credits* (minimum)	• at least 2.0 GPA in each area

\*plus reaches Meets or Exceeds on all three AIMS exams: reading, writing, math

• Check [www.asu.edu](http://www.asu.edu), [www.nau.edu](http://www.nau.edu), and [www.arizona.edu](http://www.arizona.edu) for specific requirements and other relevant information.



My personal goals for the four years I am in high school:

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My personal goals for the years after graduation:

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# 4 + 4 Student and Family Planning Portfolio

## Student Signature \_\_\_\_\_ **My 4+4 Plan** Parent/Guardian Signature \_\_\_\_\_

Write down the names of the classes you are taking or will take. Then record your grade in each class at the end of each semester.

### 4

Freshman Classes	
1st Sem.	2nd Sem.
English	
Math	
Phys. Sci.	
Health/Elec.	←→
Elective	
Elective	
Credit Earned	
GPA	
Rank	

Sophomore Classes	
1st Sem.	2nd Sem.
English	
Math	
Biology	
World H/G	
Elective	
Elective	
Credit Earned	
GPA	
Rank	

Junior Classes	
1st Sem.	2nd Sem.
English	
Math	
Science (2013+)	
US History	
Elective	
Elective	
Credit Earned	
GPA	
Rank	

Senior Classes	
1st Sem.	2nd Sem.
English	
Math (2013+)	
Elective	
AG/Econ	←→
Elective	
Elective	
Credit Earned	
GPA	
Rank	

### A College-Preparatory Plan Might Look Like This:

Freshman Classes	
English 1-2 (H)	
Algebra 1-2 (H)	
Physical Science 1-2 (H)	
Health/Elective	
Elective	
Elective	

Sophomore Classes	
English 3-4 (H)	
Geometry 1-2 (H)	
Biology 1-2 (H)	
World H/G 1-2 (H) (AP)	
Elective	
Elective	

Junior Classes	
English 5-6 (H) (AP)	
Algebra 3-4 (H)	
3rd year lab science (H)	
US History 1-2 (H) (AP)	
Elective	
Elective	

Senior Classes	
English 7-8 (H) (AP)	
Pre-Calculus/Calculus/AP	
4th year lab science (H)	
AmerGovt/Econ (H) (AP)	
Elective	
Elective	

### Suggested electives for the college-bound student that increase chances of earning a 4-year college degree:

- **A full schedule for four years**
- World Language (at least 2 years, preferably more, including AP classes)
- Classes that increase leadership and/or workplace skills, such as JROTC, Metro Tech, Internships, Work Experience Programs such as COE
- Classes that match your interests and career plans:

-If you wish to be an athletic coach, then take PE classes, *PEOPEL*, *Anatomy and Physiology for electives*.

-If you wish to become an astronomer, then make sure to take *Earth and Space Science* and *all the math you can*.

-If you wish to become a cosmetologist, then make sure your attendance and grades are superb, so that when the selection process occurs at *Metro Tech*, you will have a good chance of being chosen.

### +4

#### After High School I Plan to:

Use the **Post-Graduate Planner** as a workbook and resource: information plus worksheets to compare colleges, their costs, and checklists to keep on track.

<b>Y1:</b>	begin apprenticeship/cc classes/military	attend a community college	attend a university
<b>Y2:</b>	continue apprenticeship/cc classes/military	attend a community college or transfer to univ.	attend a university
<b>Y3:</b>	continue apprenticeship/cc classes/military	transfer to a university	attend a university
<b>Y4/5:</b>	complete apprenticeship+become journeyman, cc/univ. classes/military	graduate from a university with a Bachelor's degree	graduate from a university with a Bachelor's degree
<b>Y5:</b>	advanced training or employment	employment or Master's Degree studies/law school, medical school	employment or Master's Degree studies/law school/medical school



## My Assessment Information

Dates	AZCIS	OR	Choices Planner	PSAT	PLAN	APEXams	ASVAB	ACT	SAT	ASSET/ACCUPLACER
(True Colors: _____) Reality Check: _____ Interest Profiler: _____ Values: Work Imp. Loc: _____ Occupation Sort: _____ Undergrad School Sort: _____ Financial Aid Sort: _____	(True Colors: _____) (Reality Check): _____ Interest Inventory: _____ Work Values Sorter: _____ Career Finder: _____ College Finder: _____ Scholarship Finder: _____	R: _____ W: _____ M: _____ ..... R: _____ W: _____ M: _____	E: _____ M: _____ R: _____ S: _____	R: _____ W: _____ M: _____ ..... R: _____ W: _____ M: _____	E: _____ M: _____ R: _____ S: _____	_____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____	Comp: _____ E: _____ M: _____ R: _____ S: _____ (W): _____	Comp: _____ R: _____ M: _____ W: _____	R: _____ E: _____ M: _____

**My Career Goals: Use the Post-Graduate Planner or AZCIS/Choices Planner to build and maintain your resumé.**  
 (This should affect your choices of electives.)

Freshman Year	Sophomore Year	Junior Year	Senior Year
_____	_____	_____	_____
_____	_____	_____	_____

Entry Level or Beginning Job Opportunities for My Chosen Career Areas	Careers that Require More Training or Education	How Much Education Do I Need for my Career Goals?
1. _____	1. _____	1. _____
2. _____	2. _____	2. _____
3. _____	3. _____	3. _____
4. _____	4. _____	4. _____
5. _____	5. _____	5. _____

### Where and How Can I Learn to Practice the Careers I Have Chosen:

- College/University/Apprenticeship Program/Level of Military: \_\_\_\_\_ Admission Requirements: \_\_\_\_\_
- College/University/Apprenticeship Program/Level of Military: \_\_\_\_\_ Admission Requirements: \_\_\_\_\_
- College/University/Apprenticeship Program/Level of Military: \_\_\_\_\_ Admission Requirements: \_\_\_\_\_
- College/University/Apprenticeship Program/Level of Military: \_\_\_\_\_ Admission Requirements: \_\_\_\_\_

### How can I pay for my education after high school?

- Federal Financial Aid (FAFSA): grants, college work-study
- Scholarships: based on financial need and/or merit and/or other issues
- Loans: always the last resort, but there if needed

### Websites with financial aid resources:

- [www.azcis.intocareers.org](http://www.azcis.intocareers.org)
  - [www.access.bridges.com](http://www.access.bridges.com)
  - [www.collegeboard.com](http://www.collegeboard.com) or [www.act.org](http://www.act.org)
- You can get username and password information from your counselor.*

**DO NOT RESPOND TO SCAMS! BRING ANYTHING QUESTIONABLE TO YOUR COUNSELOR!**

# 4 + 4 Student and Family Planning Portfolio

## My Extra-Curricular Activities

	<i>Name of Organization/Employer</i>	<i>Address and Phone Number</i>	<i>Supervisor's Full Name</i>	<i>Job Duties/Service</i>	<i>Dates/Year</i>
<i>Volunteer/ Community Service/ Service Learning</i>					
<i>Extra-Curricular Activities: sports, clubs, performing arts, etc.</i>					
<i>Employment History/ Internships/ Externships</i>					

The above experiences provided me with the opportunity to learn the following leadership skills:

The above experiences provided me with the opportunity to learn the following about myself:

## My Academic Achievements and Awards

<i>Award</i>	<i>Why I Received This Award</i>	<i>Date</i>

# INDEX OF COURSE OFFERINGS

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# INDEX OF COURSE OFFERINGS

Course Title	Course Code	Page	Course Title	Course Code	Page
<b>CAREER &amp; TECHNICAL EDUCATION (CTE) PROGRAM</b>			<b>BUSINESS COURSES BY MAGNET CAMPUS</b>		
<b>CTE FRESHMAN LEVEL PROGRAMS: BUSINESS EDUCATION</b>			<u>CENTRAL</u>		
COMPUTER AND TECHNICAL EDUCATION 1		C3	GLOBAL MARKETING AND BUSINESS 1-2		C63
COMPUTER AND TECHNICAL EDUCATION 2			GLOBAL MARKETING AND BUSINESS 3-4		C63
<b>CTE FRESHMAN LEVEL PROGRAMS: FAMILY &amp; CONSUMER SCIENCES (FACS)</b>			<b>EDUCATION TRAINING: EARLY CHILDHOOD EDUCATION</b>		
FAMILY AND CONSUMER SCIENCES (FACS) 1-2 CAREER EXPLORATION		C3	EARLY CHILDHOOD EDUCATION 1-2		C9
			EARLY CHILDHOOD EDUCATION 3-4		C9
			EARLY CHILDHOOD EDUCATION INTERNSHIP 1-2		C9
<b>CTE FRESHMAN LEVEL PROGRAMS: INDUSTRIAL TECHNOLOGY EDUCATION (ITE)</b>			<b>EDUCATION TRAINING: EDUCATION PROFESSIONS</b>		
EXPLORING TECHNOLOGY 1-2		C3	EDUCATION PROFESSIONS 1-2		C10
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# PHOENIX UNION HIGH SCHOOL DISTRICT

## 2012-2013

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