



mesa
PUBLIC SCHOOLS

HIGH SCHOOL

COURSE DESCRIPTION CATALOG

2020
GRADES 9-12
2021



HIGH SCHOOL COURSE DESCRIPTION CATALOG

GRADES 9-12 • 2020-2021



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School directory may be found at
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GENERAL INFORMATION

This course catalog contains a list of high school (9th-12th grade) courses offered in Mesa Public Schools. Graduation requirements, as well as other pertinent information, are included in the catalog.

The content of this catalog supersedes previous catalogs. Students should contact their school counselor if they have questions regarding the specific applicability of program changes.

Mesa Public Schools curriculum provides an emphasis on the academic skills needed by all students, as well as opportunities to expand their personal and academic achievement through higher level classes. Graduation diploma requirements include satisfactory attendance and completion of class credit requirements.

Courses Offered

This catalog lists courses offered by Mesa Public Schools and is provided to assist in planning students' schedules. The courses listed may not be offered at every site and may not be offered both semesters. In addition, courses may be canceled due to a lack of enrollment or may be limited to specific grade levels. Student requests determine if a specific course is offered as an "A" or "7th" hour class or offered during the regular school day. Please refer to school-based information sheets or contact a student advisor at your school.

It is important to make course selections carefully. Classes are formed based on student requests during pre-registration. Courses may not be available if sufficient pre-registration requests are not received.

Registration

Student registration for courses varies by school. Pre-registration is conducted during spring semester for the next school year.

Course registration information for the upcoming school year is available in July during re-enrollment. Student-specific information is available through the portal; general information is available on school websites. Parents are responsible for any associated course fees. An online payment option is available for your convenience.

High School Grade Classifications

High school students are expected to graduate in a four (4) year program of study. The ninth grade begins the four year sequence. Mesa uses the following credit levels to determine grade level:

GRADES	CREDITS																																							
	0	.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16+							
9th Grade	0 - 4.5 Credits																																							
10th Grade											5 - 10.5 Credits																													
11th Grade																									11 - 15.5 Credits															
12th Grade																																					16+			

Students are expected to be in six classes per semester to be considered on track for graduation.

Graduation Program Planning

The purpose of this catalog is to help students and their families plan to meet academic and career goals. In addition to the catalog, Mesa Public Schools students will develop an Education and Career Action Plan (ECAP). An ECAP reflects a student's current plan of coursework, career aspirations and extended learning opportunities. The ECAP helps to personalize our students' education and enables them to maximize the opportunities available upon high school graduation.

All special education students are required to complete the course of study as prescribed in their Individual Education Plan (IEP).

Diploma Requirements

Students must earn 22 credits (16 required and 6 electives) in order to graduate from a Mesa high school.

Transfer students must be enrolled in classes that place them on track for graduation and be enrolled through the semester of graduation. These students must have earned at least five (5) credits in an MPS high school to be eligible for an MPS diploma unless they transfer in the final semester of their high school experience. Students who transfer during the final semester of their senior year must earn three (3) credits to be eligible for a Mesa diploma. Students must check with the school counselor or the registrar for specific details.

Students may participate only in commencement ceremonies held at the high school in which they were enrolled when graduation requirements were satisfied.

The chart presented below lists the credit requirements.

CURRICULUM	MESA SCHOOLS STANDARD DIPLOMA ① (See ADDITIONAL DIPLOMA DESIGNATIONS below)
ENGLISH <i>(see sequence for English courses)</i>	4
MATHEMATICS <i>(see sequence for Math courses)</i>	4 <i>Algebra I, Geometry, Algebra II, and an additional math)</i>
SCIENCE <i>(see sequence for Science courses)</i>	3 <i>Lab Sciences (Biology, physical science, and an additional science)</i>
* SOCIAL STUDIES <i>(see sequence for Social Studies courses)</i>	3 <i>(World History, American History, Government, and Economics)</i>
WORLD LANGUAGE	0
ARTS	1 <i>(fine or practical (CTE) arts)</i>
** PHYSICAL EDUCATION	1
ELECTIVE COURSES	6
TOTAL REQUIRED COURSES	22
GRADE POINT AVERAGE	No minimum GPA
*** STATE REQUIRED ASSESSMENTS	American Civics Test <i>(60/100 correct) (See page 10 for more information)</i>

* Students must complete American/Arizona History before taking American/Arizona Government or Principles and Practices of Economics. BE 53 may substitute for Principles and Practices of Economics SS 57.

** AS 35 and MS 35 can substitute for P.E. courses. Two semesters of MU 81 may substitute for ½ credit of the P.E. requirement. Hands on CPR will be taught in each Physical Education class to fulfill Arizona State Statute requirements.

*** Specific requirements are set by the Arizona State Board of Education.

① Additional Diploma Designations *(See pages 13-14 for detailed description of diplomas/designations.)*

- Advanced Government and History Designation
- Advanced Placement (AP) Capstone Diploma
- Advanced STEM Designation
- Arizona Seal of Biliteracy
- Career and Technical Education (CTE) AZ State Program Completer & Industry Certification
- International Baccalaureate (IB) Career Program Certificate
- MPS Advanced Honor for Excellence in Academics
- MPS Seal of Musical Excellence
- MPS Service Learning Honor For Excellence

AZ UNIVERSITY ENTRANCE

English: 4, Math: 4, Science: 3, Social Studies: 2,
World Languages: 2, Fine or Practical (CTE) Arts: 1,
Grade point average: 3.0+

*For details, see page 15 or the website
for the college of your choice.*

Additional Course/Credit Guidelines

1. One (1) unit of credit is granted for work completed in a subject that meets one period daily for the academic year. One-half (1/2) unit of credit is granted for work completed in a subject that meets one period daily for one semester of the academic year.
2. Students are expected to be enrolled in six classes per semester to be considered on track for graduation.
3. Students may enroll in a total of seven (7) classes at their home school. This equals 7.0 credits including an "A" or "Z" hour. Fees may be assessed for courses taken beyond seven (7).
4. High school students who register for additional classes beyond seven (7) credits through Mesa Distance Learning Program (MDLP) during the academic year will be assessed tuition of \$175 per course per semester and must have prior parental and school administration approval. Secondary students who register for courses during the summer through MDLP and/or Community Education will be assessed tuition of \$175 - \$185 per course per semester.
5. Students who are co-enrolled in a Mesa Public School designated Career Technological Education District (EVIT) will be provided an opportunity to enroll in a total of four credit bearing classes through their home campus or other MPS educational services. Students who need additional credits may enroll in Mesa Public Schools tuition based community education programs.

Transfer of Credits From Other Schools Outside MPS

Transfer students who plan to graduate from a Mesa Public School will be held responsible for MPS graduation requirements. All coursework completed outside MPS will be evaluated to determine if credit will be awarded. The acceptance of credits from other schools is based upon a variety of factors, such as the grades earned in the sending schools, the number of days or hours the courses met, the alignment of course content between the sending schools and the receiving Mesa school, and the regional accreditation status of the sending schools. It is advisable that students have transferring credits evaluated prior to registering. Mesa Public Schools reserves the right to require entering students to take placement tests to determine the most appropriate placement or to demonstrate minimum competency for core credit transfer. It is an expectation that all transferring students will meet MPS graduation requirements to receive a Mesa Public Schools diploma.

High School Credit for Coursework Prior to 9th Grade

Credits applied toward high school graduation must be earned in grades 9 through 12. The only exceptions are Algebra I and Geometry. Grades earned in these classes will be recorded on the senior high school transcript, included in the student's GPA, and they will not be removed. Prospective college student athletes should be aware that the NCAA only recognizes approved high school courses taken in grades 8-12. Credits earned in seventh grade or prior years are not accepted by the NCAA.

Concurrent Enrollment College Courses

Concurrent enrollment courses are college courses completed at a college while a student is enrolled in a high school. Acceptance of college courses toward high school graduation requirements may be considered if the course is at a higher level than the course taught at the high school, or the high school is not able to offer the required or elective course. The district determines if the subject matter of the college course is appropriate to the specific high school requirement. Prior approval is required by the high school from which the student intends to graduate. NOTE: This includes summer school.

Computer-Based/Distance Learning Programs Outside MPS

The district will accept the transfer of credits from computer-based/distance learning schools/districts other than Mesa Public Schools to meet the district's high school graduation requirements as follows:

- The same course or similar course is offered in the MPS curriculum.
- Religious study courses and courses such as study hall may not be accepted for transfer credit.
- Courses are accepted as elective credit only, unless a request is made by the parent/student within 10 days following receipt of a transfer credit evaluation form to test for consideration of "core" credit. Students may request to take an end-of-course/semester exam in core courses required for graduation (mathematics, language arts, reading, social studies, science and world languages). Upon demonstrating minimum competency (70%) core credit may be granted.

Summer and Night School Programs Outside MPS

Coursework in accredited summer and night school programs may be accepted toward graduation requirements. Students must obtain approval by the principal or designee prior to enrolling in the course.

Students attempting to earn credits from sites other than the MPS school from which the student intends to graduate need to exert care and caution. Acceptance of transfer credits from sources outside Mesa Public Schools is not automatic. Disappointment and confusion can be avoided through careful planning. Please consult your school counselor.

EXPLANATION OF GRADES

Course Grades

All courses taught for credit receive a letter or a pass/fail grade. Homework may not count for more than 10% of the final grade. Homework will be defined by the teacher in accordance with Administrative Regulation IKB-R. Final examinations may not count for more than 20% of the final grade. Grade point values and the percentages used to determine each grade are listed below.

Percentage	Letter Grade	Achievement Grade	Grade Point Value
90 - 100	= A	= Consistently meets curriculum standards at an outstanding level	4.0
80 - 89	= B	= Generally meets curriculum standards at a high level	3.0
70 - 79	= C	= Meets curriculum standards at a satisfactory level	2.0
60 - 69	= D	= Meets some curriculum standards	1.0
59 - 59.99	= D-	= Minimally meets some curriculum standards (teacher's discretion)5
< 59	= F	= Fails to meet curriculum standards. If courses are credit bearing, no credit toward graduation is granted to a student receiving a final grade of "F" in the course	0.0

P = Pass (reserved for designated pass/fail courses)

I = Incomplete (maximum length of time to make up a course is one semester). If not completed the incomplete turns to "F"

U = Audit (student may only use this option if it has been approved by the teacher and an administrator during the first 20 school days of the semester).

W = Withdraw

W/P = Withdraw with a passing grade (not calculated in GPA)

W/F = Withdraw with a failing grade (calculated as an "F")

NC = No Credit (student did not meet course attendance requirement). If the student would have received an "F", then the F is given and calculated into the student's GPA.

With the exception of the D-, no plus or minus notations are used on the report card.

Pass/Fail and Audit Designations

A pass/fail grade is awarded to limited district-designated classes. Students may not apply for a pass/fail option.

A student may request to audit a class to preview or review the content of a course. Students are eligible for this option only if the course which they are requesting to audit has previously been taken for credit or the course will be taken again for credit at a later time. Student requests regarding the audit option are limited to the first 20 days of enrollment in a course.

All students who audit a course will receive the grade of U when the course is completed. This is the only grade provided for an audited course. Audit courses shall appear on a student's permanent record.

There is no cost for the course if taken during the school year and only if the student is enrolled in less than seven (7) courses at his/her school. If the student is taking seven (7) or more courses and requests to audit another course, there is a fee. If the course is taken during summer vacation, there is a fee.

Weighted Course Grades

Certain advanced/accelerated high school courses (9th-12th grades only) taken in the Mesa Public Schools receive weighted grade point values. Weighted grade point values are possible because of higher expectations and greater rigor required in the work. The grade point values for these courses are: A = 5.0, B = 4.0, C = 3.0, D = 2.0, D- = 1.0 and F = 0. Weighted grades are only granted when the student completes the entire year-long course. Otherwise, no weighted grade point value is applied.

Grade point average (GPA) for transferring students is computed according to courses earning weighted grades at the receiving MPS school. This ensures that each student's GPA at any Mesa high school is computed the same way.

Grades When Students Register After the 20th Day of a Semester

The student may have the opportunity to earn credit if missed work is made up to the specifications of the teacher/s. The Credit Recovery Program or Mesa Distance Learning may also be an appropriate option. Students should check with the school counseling department for options.

Grades When Students Withdraw From School/Courses

Students requesting to withdraw from a course while remaining enrolled in MPS must receive administrative approval. Freshmen, sophomores, and juniors are expected to enroll in six (6) courses. Seniors must be enrolled in at least four (4) courses per semester and maintain progress toward high school graduation in four years.

Approved withdrawals from courses will be posted on the student's transcript according to the following timeline:

- Schedule changes within the first twenty (20) days of the semester will not be reflected on the transcript.
- Withdrawals from the 21st day to the end of the quarter in each semester will be posted with a "W".
- Withdrawals between the quarter of the semester to twenty (20) days prior to the end of the semester will be posted as "W/P" or "W/F".
- No withdrawals are permitted within the last twenty (20) days of the semester.

Grades When Students Transfer Into a Mesa Public School (9th-12th grade)

The grades earned in courses from an accredited high school will be averaged with the grades earned in the Mesa receiving school. The grades earned in courses from a non-accredited high school will be evaluated by the receiving school to determine how grades and transfer credits will be accepted.

Courses Taken a Second Time

Students requesting to repeat a high school (9th-12th grade) course for grade replacement should consult with MPS school counseling/administration.

Grades Impacted by Attendance

Satisfactory attendance at school is essential to learning, and regular attendance is a key to academic success. Satisfactory attendance at school is the responsibility of the student and his or her family.

- A student must attend at least ninety (90) percent of class sessions to earn credit. Failure to meet this standard may lead to withholding of credit.
- Cases involving prolonged illness or unusual circumstances will be reviewed by the school administration.
- Each unexcused absence will result in teacher and/or administrative action.
- Excessive tardies will result in administrative action.

College Core/Class Rank

Mesa Public Schools determines a student's high school (9-12) class rank by calculating a College Core. The College Core is based on Arizona university entrance requirements, as defined by the Arizona Board of Regents, as well as Arizona State Board of Education graduation requirements. *

Specifically, the College Core includes:

4 credits in English	3 credits in Laboratory Science	2 credits in World Languages
4 credits in Mathematics	3 credits in Social Studies *	1 credit in Fine or Practical Arts

Students who exceed minimum core area requirements will automatically be evaluated based on the courses with the highest grade points earned in that core area. For specific information and calculation assistance, visit www.mpsaz.org/collegecore.

* NOTE: Arizona State Board of Education graduation requirements include three (3) credits in Social Studies. However, the Arizona Board of Regents only includes two (2) credits in Social Studies for university entrance.

SEQUENCE OF COURSES

English Courses

Additional elective English courses not listed in the sequences below are available and are appropriate depending upon the academic goals of the student. Please consult a school counselor to determine the courses that meet individual and unique needs.

STANDARD	Freshman English EN 09	Sophomore English EN 47	Junior English EN 48	Senior English EN 49 or	
				Critical Thinking and Writing EN 41 or Creative Writing EN 44 or College Prep Writing EN 45	Shakespeare EN 40 or Mythology EN 52 or Multicultural Literature EN 56 or Humanities EN 80
	9th Grade	10th Grade	11th Grade	12th Grade	

ADVANCED	Honors Freshman English EN 27	Honors Sophomore English EN 35	AP English Language and Composition EN 70	AP English Literature and Composition EN 71
	9th Grade	10th Grade	11th Grade	12th Grade

Since we use the *College Core GPA* system to calculate GPA, we recommend students take courses in the designated sequence. Taking courses out of sequence may result in a lower GPA calculation until the proper courses are completed.

Mathematics Courses

Additional elective and advanced math courses not listed in the sequences below are available and are appropriate depending upon the academic goals and math skills of the student. Please consult a school counselor to determine the courses that meet individual and unique needs.

STANDARD	Algebra I MA 27	Geometry MA 30	Algebra II MA 40	Honors Precalculus MA 45 or College Algebra/ Trigonometry (Precalculus) MA 42
	9th Grade	10th Grade	11th Grade	12th Grade
ADVANCED	Honors Geometry MA 32	Honors Algebra II MA 41	Honors Precalculus MA 45	AP Calculus AB MA 50 or AP Calculus BC MA 51 or AP Statistics MA 52
	9th Grade	10th Grade	11th Grade	12th Grade

Since we use the *College Core GPA* system to calculate GPA, we recommend students take courses in the designated sequence. Taking courses out of sequence may result in a lower GPA calculation until the proper courses are completed.

NOTE:

- The state of Arizona requires students to satisfactorily complete Algebra I, Geometry, Algebra II (or its equivalent) plus a fourth year of mathematics.

Science Courses

Additional elective science courses not listed in the sequences below are available and are appropriate depending upon the academic goals of the student. Please consult a school counselor to determine the courses that meet individual and unique needs.

STANDARD	*Biology SC 49 or Physical Science SC 22	*Biology SC 49 or Physical Science SC 22	Chemistry SC 71 or Other Additional Science Course	Physics SC 81 or Other Additional Science Course
	9th Grade	10th Grade	11th Grade	12th Grade
ADVANCED	**Honors Physical Science SC 23	AP Biology SC 46 or *Honors Biology SC 45	Honors Chemistry SC 72 or ***Other AP Lab Science	Physics SC 81 or ***Other AP Lab Science
	*Honors Biology SC 45	**Honors Physical Science SC 23		
	9th Grade	10th Grade	11th Grade	12th Grade

* Note: for the 2020-2021 school year to attend to staffing

** Students enrolling in Honors Physical Science SC 23 in the 9th grade must have successfully completed Algebra I prior to the 9th grade and are expected to continue on the "Advanced" Science sequence noted above.

*** AP Lab Science courses offered at various campuses: AP Biology (SC 46), AP Environmental Science (SC 52), AP Chemistry (SC 77), AP Physics I (SC 79), AP Physics II (SC 80) and AP Physics C (SC 90).

The state of Arizona requires a science AIMS test to be administered to students at the end of a high school Biology or Applied Biological Systems course which must be completed in either the 9th or 10th grade.

Since we use the *College Core GPA* system to calculate GPA, we recommend students take courses in the designated sequence. Taking courses out of sequence may result in a lower GPA calculation until the proper courses are completed.

Social Studies Courses

Additional elective social studies courses not listed in the sequences below are available and are appropriate depending upon the academic goals of the student. Please consult a school counselor to determine the courses that meet individual and unique needs.

American Civics Assessment - graduation requirement

Mesa Public Schools will administer the American Civics Test in the 8th grade with subsequent opportunities for high school (grades 9-12) students to take the assessment as needed in order to meet this graduation requirement.

*Beginning in the 2016-2017 school year, the Competency Requirements for Social Studies shall include a requirement that, in order to graduate from high school or obtain a high school equivalency diploma, a pupil must correctly answer **at least sixty of the one hundred questions** listed on a test that is identical to the Civics portion of the naturalization test used by the United States Citizenship and Immigration Services. A district school or charter school shall document on the pupil's transcript that the pupil has passed a test that is identical to the civics portion of the naturalization test used by the United States Citizenship and Immigration Services as required by this section. Arizona Revised Statute §15-701.01*

STANDARD	World History/ Geography SS 22	Social Studies Elective	*American / Arizona History SS 35	**American Government SS 51 and ***Principles & Practices of Economics SS 57
	9th Grade	10th Grade	11th Grade	12th Grade
ADVANCED	Honors World History / Geography SS 28 or AP World History SS 50 or AP Social Studies Elective	*Honors American History & Literature SS 32 and EN 58 or AP World History SS 50 or AP Social Studies Elective	*AP United States History SS 39 and/or AP Social Studies Elective	**AP United States Government and Politics SS 52 or ***AP Microeconomics SS 86 and/or ***AP Macroeconomics SS 87
	9th Grade	10th Grade	11th Grade	12th Grade

* Students must complete one (1) credit of American/Arizona history before taking American Government or Principles and Practices of Economics.

** AP United States Government and Politics (SS 52) and We the People (SS 59) fulfill the requirements of government and economics necessary for high school graduation. Please note that AP Human Geography (SS 67) does not satisfy the World History graduation requirement.

*** BE 53, SS 85, SS 86, SS 87, SS 55 may substitute for Principles and Practices of Economics (SS 57).

Since we use the *College Core GPA* system to calculate GPA, we recommend students take courses in the designated sequence. Taking courses out of sequence may result in a lower GPA calculation until the proper courses are completed.

ADDITIONAL EDUCATIONAL PROGRAMS

Mesa Public Schools offers specialized programs designed to meet the needs of specific high school students. Students should see school student advisors for more specific information.

Advancement Via Individual Determination (AVID)

<http://www.mpsaz.org/avid>

AVID stands for Advancement Via Individual Determination and is a junior high through senior high school college readiness system designed to prepare self-determined students for college readiness. A component of the AVID college readiness system is the AVID Elective class, which is designed to support students as they enroll in rigorous courses. In the AVID Elective class, students receive training in effective study skills, such as note taking, organizational skills, and goal-setting strategies. Students also receive a research-based college preparation curriculum. Finally, a critical component of AVID is tutoring, where AVID students receive tutoring from college mentors twice per week to support them in their academic coursework.

Advanced Placement (AP)

<http://www.mpsaz.org/gtp/high-gifted>

Advanced Placement ("AP") courses offer rigorous college-level curriculum to highly-motivated students at all six Mesa high schools. When students take AP courses, they demonstrate to college admission officers that they have sought out an educational experience that prepares them for college and university success. AP courses are fast-paced and intense, allowing students to develop skills, abilities and content knowledge that they will need later in college and beyond. AP teachers are specially trained to assist students to meet the demands of such challenging coursework.

AP courses are offered through a partnership between the College Board, high schools, and colleges and universities. Each AP course is modeled upon a comparable college course and concludes with a college-level exam which provides an opportunity for students to earn free university credits. With the wide variety of AP choices offered in Mesa Public Schools, students may choose which AP subjects best meet their needs, and whether to take one or many.

For more information about the AP program and specific courses, students and parents are encouraged to visit <https://apstudent.collegeboard.org>.

Arizona Interscholastic Association (AIA)

<http://www.mesasports.org/aia>

Students involved in AIA competition programs must pass all classes and maintain a minimum class load of five classes through the end of each grading period (except 7th and 8th semesters). Student athletes must be enrolled in a minimum of five courses during the first six semesters and be on target to graduate in the 7th or 8th semester. Fewer than five classes are permitted in the 7th and 8th semesters if students remain on track for graduation.

Career & Technical Education (CTE) Programs of Study

<http://www.mpsaz.org/cte>

The purpose of CTE is to help students acquire technical and academic skills, make informed decisions about occupational program options, and make a seamless transition to post-secondary programs. A full list of CTE Programs of Study can be found at: www.mpsaz.org/cte/program. Mesa Public Schools participates with the Maricopa Community College District in many articulated programs in which students may receive college credit for courses taken in high school. CTE programs include: Agricultural Science, Automotive Technologies, Biomedical, Biotechnology, Business Operations Support and Assistant Services, Computer Maintenance, Construction Technologies, Culinary Arts, Digital Photography, Digital Publications, Drafting & Design Technologies, Engineering, Education Professions, Financial Services, Graphic Design, Advanced Manufacturing and Engineering Technologies, Sales & Marketing, Software Development, Sports Medicine & Rehab Services, Theater Design and Management, Video Production and Welding.

Cooperative Education and Internship Programs

<http://www.mpsaz.org/cte>

Career and Technical Education (CTE) Cooperative Education and Internship Programs are the capstone classes to all CTE programs. These programs provide CTE students an opportunity to engage in learning through participation in a structured work experience that involves the application of previously developed CTE knowledge and skills. CTE programs of study include: Agricultural Science, Automotive Technologies, Biomedical, Biotechnology, Computer Technology, Construction Technologies, Culinary Arts, Design & Merchandising, Digital Photography, Digital Publications, Drafting & Design Technologies, Engineering, Education Professions, Financial Services, Manufacturing Technologies, Sales & Marketing, Sports Medicine & Rehab Services, Theater Design and Management, Video Production and Welding.

Credit Recovery Program

Credit Recovery is available at all MPS high schools. Students who need to recover credit from a failed core academic course required for graduation may do so through the afternoon/evening program. Credit Recovery also provides an opportunity for students under the age of 22, who are not enrolled in a full-time program in MPS, to complete required courses for graduation. See a student advisor for more information. **NOTE: Colleges and universities may not allow credit recovery courses to be used to meet entrance or NCAA requirements.**

Dual Enrollment College Courses

Dual enrollment courses are college courses that are taught on the high school campus through a Dual Enrollment Intergovernmental Agreement (IGA) with a community college. Dual credit courses require payment of college tuition and successful completion of a college test. Successful completion of a three (3) hour dual credit course is equal to one-half (1/2) high school credit. Consult with your student advisor regarding dual enrollment opportunities at your school.

East Valley Institute of Technology (EVIT)

EVIT is a separate school district apart from Mesa Public Schools offering technical training in vocational areas. Completion of a series of courses culminates with a Skill Profile indicating the degree of competencies for entry level job positions. EVIT vocational/technical training can also lead to advanced education in students' chosen fields of study. EVIT students attend vocational/technical courses one-half of each day. The other half is spent at their home high school for core academic courses.

International Baccalaureate (IB)

<http://www.mpsaz.org/ib>

The International Baccalaureate (IB) Programme, available at Westwood High School, provides students with challenging coursework that engages their creative talents, develops critical thought and instills excellent scholarship. While pursuing the prestigious IB Diploma or the IB Career Program Certificate, students engage in unique educational opportunities such as research-based personal projects, the annual IB Leadership Institute and multiple community outreach activities. Note: universities may grant students advanced status and/or college credit based on completion of the IB Diploma or IB Career Program requirements.

Incoming high school students participate in the IB Middle Years Program (MYP) which provides 9th and 10th graders the opportunity to develop interpersonal skills while engaging in student-centered learning. MYP students learn to make practical connections between their studies and the real world as they prepare for the transition into the IB Diploma Program (DP) or the IB Career Program (CP) as juniors and seniors. The MYP culminates with the Personal Project that allows students the opportunity to demonstrate mastery of their new skills as creative, critical and reflective thinkers.

The IB Career-related Program (CP) is a new and exciting learning option for students who are interested in pursuing a career-related education in their final two years of high school. It provides a foundation to support their core class studies and additionally, prepares students for success in the workplace.

The IB Diploma Program (DP) for juniors and seniors at Westwood is Mesa Public School's leading college prep program that is respected by universities across the globe. The DP is an academically challenging and balanced program of education that addresses the intellectual, social, emotional and physical well-being of students. The DP curriculum is made up of six subject groups and the DP core that includes Theory of Knowledge (TOK), Creativity, Activity, Service (CAS) and the Extended Essay.

MPS Independent Study

Independent Study provides students opportunities to study areas of content not offered as part of the regular curriculum. Courses offered in the regular curriculum cannot be taken as Independent Study, nor can an Independent Study course be substituted for a specific graduation requirement. Generally, Independent Study courses carry elective, non-weighted credit.

Independent Study must be pre-approved by MPS school administration and sponsored, monitored, and graded by an MPS staff member. Students may accrue up to two (2) elective credits of Independent Study to fulfill graduation requirements.

Mesa Distance Learning Program (MDLP)

<https://www.mdlp.org>

The Mesa Distance Learning Program (MDLP) is an accredited online program sponsored by Mesa Public Schools that provides courses to students in Mesa and throughout the state of Arizona. Students may enroll on a concurrent or full-time basis, with the option to complete all coursework and earn a high school diploma through MDLP.

MDLP is an open entry/open exit program and offers flexibility by allowing students to complete coursework according to their own schedule. Courses emphasize critical reading and writing, and require independent learning. **MDLP courses are written by appropriately certified teachers and are aligned to district curriculum and state standards. Students must complete all assignments and pass a proctored final exam with minimum competency to receive course credit.**

MDLP is NCAA accredited for athletes interested in playing Division I or II college sports.

Students attending a Mesa School who would like to take MDLP courses must consult with their student advisor prior to registering.

High school seniors should be aware of earlier deadlines for MDLP course completion to fulfill graduation requirements.

For more information about the Mesa Distance Learning Program, and a comprehensive list of approved MDLP courses, please go to www.mdlp.org or call 480-472-7285.

ADDITIONAL DIPLOMA DESIGNATIONS

<http://www.mpsaz.org/curriculum/curriculum-2a/>

Advanced Government and History Designation

<http://www.mpsaz.org/mtnview/academics/advgovhis/>

The Advanced Government and History Designation is an in-depth study of the social sciences emphasizing civic participation and civic literacy. To qualify for this designation, students must successfully complete (1) Advanced Placement US History and Advanced Placement United States Government and Politics with the requirement of taking the AP exam (2) 1 additional full credit from approved Social Studies elective in grades 10-12 and (3) a senior-year capstone project presented and approved before a panel of education professionals. Students enrolled in this course of study have the opportunity to earn college credits through Advanced Placement exams, and those who complete all requirements for this designation will earn a seal on their high school diploma. (Available at Mountain View High School)

Advanced Placement (AP) Capstone Diploma

<http://www.mpsaz.org/rmhs/academics/apcapstone>

The College Board's AP Capstone™ is an innovative college-level program based on two new courses — AP® Seminar and AP Research — that complement and enhance discipline-specific AP courses.

The program immerses high school students in the challenging practice of the critical skills students need today. The ability to think independently, write effectively, research, collaborate, and learn across disciplines is essential for success in college and beyond.

Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma™. This option allows students taking multiple AP courses to distinguish themselves to colleges and universities. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams will receive the AP Seminar and Research Certificate™. (Available at Dobson and Red Mountain High Schools)

Advanced STEM Designation

<http://www.mpsaz.org/rmhs/academics/stem>

The Advanced STEM Diploma Designation is an innovative model blending rigorous honors and Advanced Placement (AP) curricula with STEM fields of study in Biomedical Sciences, Biotechnology, and Engineering. To qualify for this designation, students must successfully complete six (6) or more Advanced Placement course and earn a score of three (3) or better on those 6 AP exams. Additionally, students must successfully complete a minimum of two (2) years in a single STEM Pathway — Biomedical Sciences, Biotechnology or Engineering. Students enrolled in this course of study have the opportunity to earn college credits through advanced placement exams or dual enrollment, and those who complete all requirements for this designation will earn a seal on their high school diploma. (available at Red Mountain High School and Westwood High School)

Arizona State Seal of Biliteracy

<http://www.mpsaz.org/worldlanguages>

The Arizona State Seal of Biliteracy recognizes students who graduate from a school operated by a school district and who have attained a high level of proficiency in one or more languages in addition to English. The Seal of Biliteracy encourages students to pursue biliteracy, honors the skills students attain, and can be evidence of skills that are attractive to future employers and college admissions offices. The seal requires students to show high levels of proficiency in English by successfully completing all English requirements for graduation with an overall grade point average in those classes of 2.0 or higher on a 4.0 scale, or the equivalent. Students must also show high levels of proficiency in English by receiving a passing score in English Arts on the state assessment. The student must attain the required score on a language assessment as adopted by the State Board of Education. Students who successfully complete the requirements will earn a seal on their high school diploma. (All MPS high schools)

MPS seniors interested in The Arizona State Seal of Biliteracy will need to meet the state requirements and apply through the district's World Languages Department by the end of the first quarter of their senior year. Visit the World Languages website for more information and the complete application process, <http://www.mpsaz.org/worldlanguages>.

Career & Technical Education (CTE)

AZ State Program Completer & Industry Certification

<http://www.mpsaz.org/cte>

Students who complete a two or three year CTE Program of Study will earn a program completer certificate and be recognized at an end-of-year ceremony. All Career and Technical Education programs lead to college and career pathways. For more information on dual enrollment options available, please go to www.mpsaz.org/cte/program. CTE programs lead to industry certifications that will qualify students for employment after high school. (Available at all MPS High Schools)

International Baccalaureate (IB) Career Program Certificate

<http://www.mpsaz.org/ib>

The IB Career Program (CP) offers students the opportunity to earn both the IB CP certificate as well as certification from CTE or JROTC programs. To be eligible to earn the IB CP certificate, students must complete at least two IB Diploma classes as a junior and senior in addition to completing their Career Program (CTE/JROTC) of choice. Students also complete a Personal and Professional Skills (PPS) course, 50 hours of service learning, a language development portfolio, and a Reflective Project of their choice. In acknowledgment of earning this internationally recognized certificate, IB students may be eligible to receive college credit and have access to IB specific scholarships that colleges/universities may offer. (Available at Westwood High School)

MPS Advanced Honor for Excellence in Academics

<http://www.mpsaz.org/curriculum/curriculum-2a/>

MPS students planning to apply to universities with competitive admission requirements may pursue the MPS Advanced Honor for Excellence in Academics designation. Requirements for this designation are outlined below. (Available at all MPS High Schools)

CURRICULUM	MPS ADVANCED HONOR FOR EXCELLENCE IN ACADEMICS
ENGLISH <i>(see advanced sequence for English courses)</i>	4
MATHEMATICS <i>(see advanced sequence for Mathematics courses)</i>	4 <i>(Algebra I, Geometry, Algebra II and an *advanced math)</i>
SCIENCE <i>(see advanced sequence for Science courses)</i>	4 <i>Different lab sciences Biology, Chemistry, and two additional sciences, one (1) must be an **advanced science course</i>
SOCIAL STUDIES <i>(see sequence for Social Studies courses)</i>	3 <i>World History, American History, Government and Economics</i>
WORLD LANGUAGE	3 same language or 2 years each in 2 different languages
ARTS	1 <i>fine or practical (CTE) arts</i>
PHYSICAL EDUCATION***	1
ELECTIVE COURSES	4
TOTAL REQUIRED COURSES	24
GRADE POINT AVERAGE	3.25+ (unweighted) GPA <i>A minimum of 3 weighted credits. Two (2) credits must be AP or IB courses.</i>
STATE REQUIRED ASSESSMENTS	American Civics Test <i>(60/100 correct) (See page 10 for more information)</i>

* "Advanced mathematics" is a mathematics course with Algebra II as a prerequisite.

** "Advanced science" includes SC 46, SC 48, SC 52, SC 54, SC 55, SC 72, SC 75, SC 77, SC 79, SC 80, SC 81, SC 90, SC 91, SC 92, SC93, SC 94, SC 95, SC 96, SC 97. Students are required to successfully complete a course in SC 49 Biology, SC45 Honors Biology, or AG 32 Applied Biological Systems in the 9th or 10th grade AND take the AIMS Science assessment at the completion of this course.

*** Hands only CPR will be taught in each Physical Education class to fulfill Arizona State Statute requirements.

MPS Seal of Musical Excellence

<http://www.mpsaz.org/arts/music/conservatory>

The MPS Seal of Musical Excellence, offered through the Conservatory Program at Mountain View High School, is designed for students who are interested in an intense course of study in the area of music, possibly in preparation for a career in a music field. To qualify, students must have taken two years of the same performance area (band, choir, or orchestra) in junior high school, receiving a grade of "B" or higher in all music courses. Once in high school, students must continue to participate in this same performance area for four years. In addition, students must complete advanced music coursework including music history, music theory, world music, and piano. Students must also complete two credits of the same World Language, as well as complete auditions for the Arizona all-region performing groups. Students must receive a grade of "B" or better in all music courses to qualify for the seal. Upon completion, students in this course of study (Class of 2022 and beyond) will have the opportunity to earn the MPS Seal of Musical Excellence on their diploma. (Available at Mountain View High School)

MPS Service Learning Honor for Excellence

<http://www.mpsaz.org/msl>

Students will be eligible for the Honor for Excellence in Service Learning seal on their diploma upon completion of approved service learning throughout their four years of high school. 150 hours is required through the graduating class of 2018-2019. Beginning with the graduating class of 2019-2020, 200 hours will be required. Students may earn hours from a combination of curriculum based service learning and extracurricular service sponsored by school clubs or community organizations. (Available at all MPS High Schools)

ADMISSION TO COLLEGES AND UNIVERSITIES

Students planning on higher education should determine the entrance requirements of the particular school they wish to attend. Admission requirements to colleges and universities vary greatly. Students should consult the catalog of the college or university they are interested in attending to determine the exact requirements. Catalogs may be accessed on-line from the colleges and universities. Many catalogs are available in the student advisement offices and/or the Career Centers. Applicants for Arizona public universities must meet the following general requirements:

1. For assured admission, the universities will admit applicants who meet basic aptitude and competency requirements. To meet aptitude requirements, students must earn a 3.0 on a 4.0 unweighted grade scale on 16 “core” classes, or rank in the upper 25% of their high school graduating class. To meet competency requirements, students must demonstrate academic competency in each of the sixteen (16) required subjects (core competencies). For delegated admission, students must be in the upper 50% of the graduating class and must lack no more than one credit in no more than two basic competency subjects. Deficiencies in both math and lab sciences are not acceptable.
2. The ACT or SAT represent one pathway for admission to state universities and are highly recommended for reasons other than admissions, such as scholarship opportunities and placement in more rigorous programs of study. It is highly recommended that these exams be taken during the spring of the student’s junior year. In addition, it is recommended that students take the Preliminary SAT (PSAT) prior to taking the ACT or SAT. The PSAT may qualify students to enter competitions for scholarships and participate in recognition programs through the National Merit Scholarship Corporation.
3. National Collegiate Athletic Association (NCAA) Eligibility: All prospective student athletes who intend to participate in Division I or II athletics as freshmen in college must register and be certified by the NCAA Initial-Eligibility Clearinghouse by June 15 upon completion of their junior year. A specific group of courses is required by NCAA. NCAA approved high school courses taken as an 8th grader that appear on the high school transcript may be recognized by NCAA. NCAA will not recognize high school courses taken in 7th grade or prior years. Note: Effective 8/1/10 the NCAA does not accept most non-traditional courses (correspondence, on-line, etc.).
4. GENERAL UNDERGRADUATE ARIZONA UNIVERSITY ENTRANCE REQUIREMENTS (as of November 2016):
 - **ENGLISH** - Four (4) years of high school English (composition/literature based).
 - **MATHEMATICS** – Four (4) years of high school courses (Algebra I, Geometry, Algebra II and an advanced math class for which Algebra II is a prerequisite).
 - **SCIENCE** – Three (3) years of different high school laboratory sciences (one year each from three of the following: Biology, Chemistry, Earth Science or Physics. An integrated science or an advanced science may be substituted for one required course).
 - **SOCIAL SCIENCE** – One (1) year of high school American History, and one (1) year of high school social science (e.g., World History, Economics, Government, Psychology, Geography, Sociology or Anthropology).
 - **WORLD LANGUAGES** – Two (2) years of the same high school language, or attainment of a minimum score on a national standardized foreign language test or placement into a third semester college foreign language class based on university placement exam results.
 - **FINE OR PRACTICAL (CTE) ARTS** – One (1) year of a high school fine or practical (CTE) arts or a combination of two semesters of high school fine arts.

Questions about Arizona university admission requirements should be referred to the Undergraduate Admissions Office at each university. Students entering Arizona four-year colleges and universities, after the year in which they graduated from high school, are expected to have met the entrance requirements in effect in the year they graduated from high school.

Certain colleges within the state universities may require additional courses for admission (examples: Nursing and Forestry). Students should check with their student advisors for specific course requirements. Weighted grade point values may not be accepted by some universities for determining class rank and/or admission. Students should contact individual universities for specific grading considerations.

Out-of-state schools have additional requirements and differ considerably. It is suggested students review those school catalogs to see specific requirements.

For more information visit Prepare to Succeed at www.mpsaz.org/succeed

HIGH SCHOOL COURSES

VERIFY OFFERINGS AT SCHOOL SITE

AEROSPACE SCIENCE/LEADERSHIP

Subject Area Goal

- Acquaint secondary school students with the Aerospace age
- Strengthen character
- Provide specialized studies in specific areas of national defense
- Provide leadership training and experience
- Develop informed aerospace age citizens
- Develop understanding of defense roles in a democratic society

The following applies to all Air Force JROTC Classes:

Cadets in AFJROTC have the opportunity to participate in many activities, including Color Guard, drill teams model clubs, rocketry clubs, orientation flights on USAF aircraft, and field trips to USAF bases. Textbooks and uniforms are on loan from the Air Force. Extracurricular emphasis is put on community service in the form of volunteer work. Twenty percent of each class will be devoted to wellness and physical fitness as well as basic marching drill movements and commands. Benefits to those who pursue the aerospace science program include competing for five Air Force Academy appointments and four-year ROTC college scholarships for those who are qualified; higher pay for those who enlist in the services after graduation from high school, and opportunities to gain experience in the various vocational opportunities of the aerospace industry. No military obligation is incurred through AFJROTC.

AS 31 AFJROTC I - Journey into Aviation History

2 Sem. — 1 Practical Arts/Elective Credit

Introduction to aerospace education and leadership. Cadets gain a basic knowledge of the origins and development of today's aerospace world. The course covers the development of flight from dreams of the early Chinese to the Gulf War. Fundamentals of leadership include customs and courtesies of the Air Force and basic drill ceremonies.

AS 32 AFJROTC II - Science of Flight

2 Sem. — 1 Practical Arts/Elective Credit

Introduction to aviation science and the physical laws involved. Includes aerospace environment within and beyond our atmosphere, the human body's reaction to flight, the theory of flight, and air navigation. Leadership skill stresses communication skills, time management, and cadet corps activities.

AS 33 AFJROTC III - Exploration of Space

Prerequisites: Jr. or Sr.

2 Sem. — 1 Practical Arts/Elective Credit

Development of propulsion systems used in aircraft and space vehicles; the fundamentals of rocketry and its application to spacecraft, and the principles underlying space travel. Leadership education emphasizes life skills needed such as financial planning, job applications, resumes, interviews and career opportunities. Cadets assume leadership positions in the cadet corps as cadet officers and non-commissioned officers (NCO's).

AS 34 AFJROTC IV - Senior Options

Prerequisites: AS 31, AS 32

2 Sem. — 1 Credit

POLICY AND ORGANIZATION: A brief history of recent presidential administrations. Objectives of the U.S. military services and a description of the aircraft, missions and organization of each branch of service are discussed. **SURVIVAL:** Instruction will provide training in skills, knowledge, and attitudes necessary to successfully perform fundamental tasks needed for survival. **GEOGRAPHY:** Gains a general knowledge of the Earth's surface and the processes that shape it. **MANAGEMENT OF THE CADETS CORPS:** The cadet learns and applies the principles of managing the Air Force Junior ROTC Cadet Corps. This hands on experience affords the student the opportunity to put theories of previous leadership courses into practice.

VERIFY OFFERINGS AT SCHOOL SITE

AEROSPACE SCIENCE/LEADERSHIP

AS 35 AFJROTC Drill Team/Color Guard

Prerequisites: Must enroll in another AFJROTC course 2 Sem. — 1 Credit

This course introduces students to the principles of teamwork, neatness and precision drill. It builds confidence and strengthens self-esteem. Drill is a very positive activity that instills a heightened sense of discipline and leadership. In addition to drill classes will include physical fitness programs and activities such as volleyball, softball, racquetball, and ultimate frisbee. **NOTE: This course may count in lieu of P.E. requirement.**

AS 36 AFJROTC V (Honors) - Private Pilots Ground School

Prerequisites: AS 31, AS 32

2 Sem. — 1 Credit

Private Pilots Ground School: In depth study of flight environment, aircraft systems, engines, weather, air space, navigation, physiology of flight, and Federal Aviation Regulations. Graduates of this course have been given enough information to pass FAA Private pilots written exam. Student must be approved by the Senior Aerospace Science instructor prior to entry.

AS 41/42/43 AFJROTC Cadet Leadership Course

Summer — ½ Credit

Prerequisites: One year in JROTC, good physical condition and approval of the Senior Aerospace Science Instructor.

Program presents leadership situations to cadets in a 24-hour military type situation for the full 7-day camp. Academics will vary with the theme of the camp, which will cover different aspects of a military career. Leadership Education will include dress and appearance, drill and customs and courtesies along with other selected topics. The school includes morning physical training, sports, field training and usually a selected field trip. Student leaders are chosen on years in JROTC and merit. Course numbers are sequential for the number of years attended for 1/2 credit given for each year. Course requires a fee for room, board and transportation from \$35 to \$50.

AS 99 Independent Study

ART

Subject Area Goal

The student will participate in aesthetic activities that will promote visual awareness and develop occupational potential and creative use of leisure time.

AR 37 Introduction to Cartooning

Prerequisite: Beginning Drawing 1 Sem. — ½ Fine Arts/Elective Credit

This course will focus on a variety of cartooning techniques. Students will study basic construction, anthropomorphism, caricature, and the basic of sequential storytelling. Different genera and styles will be explored, as well as character creation. **NOTE: Course fee required.**

AR 40 Beginning Stained Glass

1 Sem. — ½ Fine Arts/Elective Credit

For those wanting to learn general techniques used in making stained glass objects. Student will develop their own patterns. **NOTE: Course fee required.**

AR 41 Beginning Ceramics

1 Sem. — ½ Fine Arts/Elective Credit

For those desiring to understand ceramic techniques, procedures, and principles, both potter's wheel and hand building. Emphasis on three-dimensional design. **NOTE: Course fee required.**

VERIFY OFFERINGS AT SCHOOL SITE

ART

AR 42 Intermediate Stained Glass

1 Sem. — ½ Fine Arts/Elective Credit

Prerequisite: Beginning Stained Glass (AR 40)

Emphasis on Advanced Stained Glass Techniques. The construction of boxes, picture frames, panel lamps and kaleidoscope will be explored. Introduction to glass fusing, slumping, and draping techniques in the making of two and three dimensional glass projects. Students will develop their own patterns. **NOTE: Course fee required.**

AR 43 Intermediate Ceramics**Prerequisites:** AR 41

1 Sem. — ½ Fine Arts/Elective Credit

Beginning of product orientation with some emphasis on quantity and quality of work. Glaze formulation, Raku firing and finishing, producing ceramic objects all term. **NOTE: Course fee required.**

AR 45 Advanced Ceramics**Prerequisites:** AR 43

1 Sem. — ½ Fine Arts/Elective Credit

Extends improvement of hand-built and wheel throwing skills. Includes glaze formulation and advanced clay experiences such as Raku. Provides independent study in advanced work or interest areas. Course may be repeated by teacher approval. **NOTE: Course fee required.**

AR 51 Beginning Enamel

1 Sem. — ½ Fine Arts/Elective Credit

Enameling is the process of applying brightly colored glass to metal (copper) and fusing the two together through the use of heat. The piece is fired in an enameling kiln. The firing time is only minutes, so students see their results immediately. Students will make beautiful objects or jewelry of their own design. The seven techniques of enameling that will be taught are: stenciling, sgraffito, cloisonne, basse-taille, champlevé, grisaille, and plique-à-jour. **NOTE: Course fee required.**

AR 54 Beginning Jewelry

1 Sem. — ½ Fine Arts/Elective Credit

Construct jewelry using the sheet method with copper, silver, and nickel silver. Includes use and care of hand tools and soldering equipment. Creativity in design is stressed. **NOTE: Course fee required.**

AR 56 Intermediate Jewelry**Prerequisites:** AR 54

1 Sem. — ½ Fine Arts/Elective Credit

Lost-wax casting method of jewelry making, set stones, and work with various kinds of waxes to produce the model for casting jewelry. Emphasis on design quality and aesthetic attitude determined by application of principles of design. **NOTE: Course fee required.**

AR 58 Advanced Jewelry**Prerequisites:** AR 54 & 56

1 Sem. — ½ Fine Arts/Elective Credit

Continuation of processes learned in AR 54 and 56. For the serious student to gain proficiency or pursue a personally planned outline of activity. **NOTE: Course fee required.**

AR 60 Beginning Painting

1 - 2 Sem. — ½ - 1 Fine Arts/Elective Credit

Prerequisites: AR 63 Required or Instructor Approval

Water color and acrylic paints. Emphasis on basic techniques and composition. Paint abstract and realistic still life figures and landscapes. A variety of painting media is used. Previous drawing class strongly recommended. **NOTE: Course fee required.**

AR 61 Intermediate Painting**Prerequisites:** AR 60

1 Sem. — ½ Fine Arts/Elective Credit

A more comprehensive understanding, appreciation, and explanation of painting. Develop skills, knowledge and techniques using various painting media. **NOTE: Course fee required.**

VERIFY OFFERINGS AT SCHOOL SITE

ART

AR 62 Advanced Painting**Prerequisites:** AR 61

1 - 2 Sem. — ½ - 1 Fine Arts/Elective Credit

Work on individual basis with teacher developing skills and techniques on an advanced level, beginners and advanced students in the same class. **NOTE: Course fee required.**

AR 63 Beginning Drawing

1 Sem. — ½ Fine Arts/Elective Credit

Learn to manipulate form, line and texture in pencil and ink. Realistic approaches made in drawing figures, landscapes, portraits and still life. **NOTE: Course fee required.**

AR 64 Intermediate Drawing**Prerequisites:** AR 63

1 Sem. — ½ Fine Arts/Elective Credit

A more comprehensive understanding, appreciation and exploration of drawing. Develop skills, knowledge, and techniques using various media. **NOTE: Course fee required.**

AR 66 Advanced Drawing

1 Sem. — ½ Fine Arts/Elective Credit

Prerequisites: Satisfactory AR 63, AR 64

Emphasis on developing style and reflecting that style in various drawing processes. **NOTE: Course fee required.**

AR 69 Introduction to Sculpture

1 Sem. — ½ Fine Arts/Elective Credit

Students will explore the history, methods and materials of sculpture. Students will be expected to design and construct a series of sculptures using a variety of methods and materials. **NOTE: Course fee required.**

AR 71 Art Design with Photoshop II

1 Sem. — ½ Fine Arts/Elective Credit

Continued reinforcement and exploration of art produced through the use of the computer. Students will further develop their art expressions by utilizing a variety of imaging techniques, photo manipulations, and art presentation methods to develop portfolios. **NOTE: Course fee required.**

AR 72 Art Design with Photoshop III**Prerequisites:** AR 71

1 Sem. — ½ Fine Arts/Elective Credit

A more in-depth exploration of the complexities of the Photoshop program will help to acquire the comprehensive skills needed to effectively utilize higher levels of image editing, creative designing, and art presentation practices. Students will be challenged to produce a thematically-linked series which focuses on individual student choices and styles which will be dispersed through portfolio production methods. **NOTE: Course fee required.**

AR 77 AP 2-D Art and Design

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: At least 2 semesters (can be concurrent enrollment) in advanced art classes.

A variety of drawing media is used. Offers the highly skilled art student guidelines and instructions in the production and presentation of a portfolio for occupational or higher educational placement. Students will specialize in Drawing portfolio options. Students will take an AP exam in May. See your school counselor if you have a financial hardship. **NOTE: Course fee required. NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

ART

AR 78 AP 3-D Art and Design

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: At least 2 semesters (can be concurrent enrollment) in advanced art classes.

A variety of 3D media is used. Offers the highly skilled art student guidelines and instructions in the production and presentation of a portfolio for occupational or higher educational placement. Students will specialize in 3-D portfolio options. Students will take an AP exam in May. See your school counselor if you have a financial hardship. **NOTE: Course fee required. NOTE: This is a weighted course.**

AR 79 AP Drawing

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: At least 2 semesters (can be concurrent enrollment) in advanced art classes.

A variety of drawing media is used. Offers the highly skilled art student guidelines and instructions in the production and presentation of a portfolio for occupational or higher educational placement. Students will specialize in Drawing portfolio options. Students will take an AP exam in May. See your school counselor if you have a financial hardship. **NOTE: Course fee required. NOTE: This is a weighted course.**

AR 82 AP Art History

2 Sem. — 1 Fine Arts/Elective Credit

The Advanced Placement Program in History of Art is a full-year introductory college course in the history of art (primarily western art, with some attention to the art of other cultures). The course is designed to increase the student's knowledge of art, artists, schools and movements; chronological periods and specific dates; and the subjects, styles and techniques of particular works of art. Students will take an AP exam in May. See your school counselor if you have a financial hardship. **NOTE: Course fee required. NOTE: This is a weighted course.**

AR 90 IB Middle Years Art

1 Sem. — ½ Fine Arts/Elective Credit

Prerequisite: Participation in IB Middle Years Program

Students learn that art is a form of creativity through research, reflection, craftsmanship, evaluation and art appreciation. Students will use a combination of drawing, painting, sculpture, graphic design, and other techniques to understand the elements and principles of art, and work in a variety of media. The class will focus on three fundamental concepts: holistic learning, intercultural awareness, and communication. Through a variety of multicultural activities, students will develop open-mindedness and greater cultural awareness. Throughout this course, emphasis will be placed on developing the characteristics of respect, balance, honesty, courage and insightfulness. **NOTE: Course fee required.**

***AR 91 IB Film Studies**

Grades 11-12

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Student must be admitted to the IB program.

Through the study and analysis of film texts and exercises in film-making, the Diploma Programme film course explores film history, theory and socio-economic background. The course develops students' critical abilities, enabling them to appreciate the multiplicity of cultural and historical perspectives in film. To achieve an international understanding within the world of film, students are taught to consider film texts, theories and ideas from the points of view of different individuals, nations and cultures. **Note: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

ART

AR 99 Independent Study**Frequently Asked Questions About Art**

ARE THERE ANY PREREQUISITES FOR ANY OF THE ART CLASSES? **Students should take the beginning level class before entering the intermediate and advanced level classes. See course description for specific courses.**

CAN STUDENTS TAKE MORE THAN ONE PERIOD OF ART? **Generally, yes, provided the above requirement is met.**

IF STUDENTS HAVE HAD ART CLASSES AT ANOTHER SCHOOL, CAN THEY SKIP THE PREREQUISITE FOR AN UPPER GRADE CLASS? **No.**

DO STUDENTS NEED TO BE ABLE TO DRAW IN BEGINNING ART CLASSES? **No. Willingness to work and a desire to learn is all that is required.**

WHAT COURSE CONTENT SATISFIES THE ARIZONA UNIVERSITIES' REQUIREMENTS FOR ONE CREDIT IN FINE ARTS? **Fine Arts courses are defined as those that provide the opportunity to gain experience and knowledge in production and performance, analysis, interpretation and evaluation, and historical and cultural aspects of the visual and performing arts. See your Student Advisor for specific classes.**

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

*NOTE: Courses that will meet the core competency requirements for Arizona universities are marked with an asterisk.**

Subject Area Goal

The student will develop 21st Century workplace readiness skills, and acquire knowledge and proficiency in Career and Technical Education programs. Each program area lists the recommended courses in sequence, to complete a program of study.

Essential Skills

The student will:

- Apply critical thinking and problem solving skills
- Apply academic skills in given situations
- Demonstrate safety skills appropriate to program area
- Use current industry standard technology and equipment to meet state standards
- Demonstrate entry-level occupational skills in certain program areas
- Demonstrate leadership skills
- Assess personal strengths to assist in career choice

EXPLORATION**CE 01 Career Exploration**

1 Sem. — ½ Elective Credit

This class offers hands-on learning experiences that will give students the opportunity to explore various career pathways and begin developing 21st Century workforce skills. This class will facilitate the exploration process of Career Cluster occupational areas which include, but are not limited to: agriculture, architecture and construction, audio/video technology and communications, business management, education professions, finance, health sciences, information technology, marketing, and science, technology, engineering and mathematics. Students will develop an Education Career Action Plan, relate school experiences to occupational choices, and explore the relationship between work and broader life roles.

CE21 IB Personal and Professional Skills

2 Sem. — 1 Elective Credit

This course is designed to develop IB Career-Related Program students' critical thinking, intercultural understanding, communication, and personal development. Approaches to Learning (ATL skills) introduced in this course aims to challenge students to draw on personal resources and skills from their career-related field of study to engage critically with the world around them. The topics addressed in ATL will be about ethical dilemmas, deductive and inductive reasoning, culture shock, academic honesty, and emotional intelligence. The personal professional skills course will also dedicate time to the in-depth work on the Reflective Project. The Reflective Project requires students to identify, analyze, critically discuss and evaluate an ethical dimension of an issue stemming from their career-related studies. This course is required for students seeking the IBCP certificate. **NOTE: This is a weighted course.**

IT 04 Introduction to Environmental Services

2 Sem. — 2 Fine/Practical Arts/Elective Credit

Environmental Services is a two year program that will introduce students to the global skills associated with industrial maintenance trades. This is a 2 hour class that will focus on developing job skills and custodial related skills. Students will learn hard floor care, carpet care, hotel/motel housekeeping, commercial laundry and auto detailing. This class is targeted for students with work readiness and measurable post-secondary goals.

IT 06 Advanced Environmental Services

Prerequisite: IT 04 2 Sem. — 3 Fine/Practical Arts/Elective Credit

Students will continue to learn and apply skills for the industrial and custodial maintenance trades. This course will focus on employability skills and give students the opportunity to participate in internship and job shadowing experiences.

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

AGRICULTURAL SCIENCE

ADE/CTE approved program for AgriScience.

***AG 32 Applied Biological Systems**

2 Sem. — 1 Biological Science/Practical Arts/Elective Credit

Prerequisites: See page 9*

Major areas of study: cell function and structure, anatomy, nutrition,

biological systems in the environment, plant growth, animal growth, food safety and processing, communication and leadership skills. May include dissection. Leadership development is provided through FFA. Fulfills college entrance and district graduation requirements as a lab science and will count toward the scholastic diploma. **NOTE: Course fee required.**

AG 34 Plant and Animal Science

2 Sem. — 1 Additional Science/Practical Arts Credit

Prerequisites: AG 32 or SC 49

This course is designed to introduce students to the fundamentals of animal and plant sciences including anatomy, physiology, genetics, reproduction, growth, nutrition, health, plant growth and development, hydroponics, propagation, nutrition, pests, greenhouse management, landscape plant identification and employability skills. Students will work on the land laboratory with small and large animals, and within the plant and animal facilities. Students will be required to maintain an SAE. Students will participate in FFA where they will develop skills for leadership and career success.

***AG 35 Veterinary Science**

Prerequisites: AG 31 2 Sem. — 1 Additional Science/Practical Arts Credit

This course is designed to develop skills of students with an in-depth focus of anatomy and physiology of various animals. The course encompasses the full scope of the technology of animal health and disease, including the sciences and arts of disease prevention, diagnosis, prognosis, and therapy. Leadership development is provided through FFA. **NOTE:** This course would be recommended for students who are interested in a career in veterinary science. **NOTE: Course fee required.**

***AG 51 Plant Science**

Prerequisite: AG 31 2 Sem. — 1 Additional Science/Practical Arts Credit

This course focuses on plant sciences, specifically with plant production in the greenhouse. Units include plant growth and development, hydroponics, propagation, nutrition, pests, greenhouse management, landscape plant identification, design and installation of irrigation systems, and equipment maintenance. Students will be required to maintain an SAE. Students will participate in FFA where they will develop skills for leadership and career success. **NOTE: Course fee required.**

CT 53 Agricultural Science - Internship

(see Work Based Learning pages 27-28)

AUTOMOTIVE TECHNOLOGIES

ADE/CTE approved program for Automotive Technologies.

IT 92 Automotive Systems and Repair

2 Sem. — 1 Practical Arts/Elective Credit

This course will provide students with hands-on experience in automotive systems, maintenance and repair. Topics will focus on various systems of the automobile which include preventive maintenance, tires, electrical/electronic systems, tune-ups, brakes, and engine operations. Safety will be emphasized. **NOTE: Course fee required.**

IT 93 Automotive Systems and Diagnostics

Prerequisites: IT 92 2 Sem. — 1 Practical Arts/Elective Credit

This course will provide an advanced study of the automotive repair industry. Topics will include tune-ups, engine service, chassis, and brake repairs. Students will learn management and leadership skills needed to be successful in the automotive industry, including performance and aftermarket modifications. Safety will be emphasized. **NOTE: Course fee required.**

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

AUTOMOTIVE TECHNOLOGIES*ADE/CTE approved program for Automotive Technologies.***IT 95 Advanced Automotives****Prerequisites:** IT 93**2 Sem. — 1 Practical Arts/Elective Credit**

This advanced course is designed to lead the student to certification or advanced training that is available in the automotive industry. This course applies the principles learned in the beginning and intermediate Automotive Systems courses and builds upon the tune-up, engine service, chassis and brake repairs performed in previous courses by allowing the student to do independent projects. **Note: Course fee required.**

CT 55 Automotive Technologies - Internship

(see Work Based Learning pages 27-28)

BIOMEDICAL SCIENCES*ADE/CTE approved program for Biomedical Sciences.****HE 70 Principles of the Biomedical Sciences****2 Sem. — 1 Additional Science/Practical Arts Credit**

Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses. This course is part of the Project Lead the Way Biomedical Sciences program. **NOTE: Course fee required.**

HE 71 Human Body Systems*Prerequisite:** HE 70**2 Sem. — 1 Additional Science/Practical Arts Credit**

Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries. This course is part of the Project Lead the Way Biomedical Sciences program. **NOTE: Course fee required. NOTE: This is a weighted credit.**

HE 72 Medical Interventions*Prerequisites:** HE 71**2 Sem. — 1 Additional Science/Practical Arts Credit**

Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body as students explore: how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important roles scientific thinking and engineering design play in the development of interventions of the future. This course is part of the Project Lead the Way Biomedical Sciences program. It is highly recommended that this course be taken concurrently with another life or physical science lab course. **NOTE: Course fee required. NOTE: This is weighted credit.**

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

BIOMEDICAL SCIENCES*ADE/CTE approved program for Biomedical Sciences.***HE 73 Biomedical Innovation****Prerequisites:** HE 72**2 Sem. — 1 Practical Arts/Elective Credit**

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community. This course is part of the Project Lead the Way Biomedical Sciences program. **NOTE: It is recommended that this course be taken concurrently with another life or physical science lab course. While this is a rigorous science course, this course does not meet university requirements as a life or physical science content course. NOTE: This is a weighted course. NOTE: Course fee required.**

CT 57 Biomedical Sciences - Internship

(see Work Based Learning pages 27-28)

BIOTECHNOLOGY*ADE/CTE approved program for Bioscience.****SC 48 Biotechnology Concepts and Techniques/Biotech I****2 Sem. — 1 Additional Science/Practical Arts Credit****Prerequisites:** SC 45 or SC 49 or SC 58 or AG 30

This course introduces students to the exciting field of biotechnology. Students will be introduced to topics such as biochemistry, DNA structure, gene expression, protein synthesis, recombinant DNA strategies, as well as forensics and bioethics. Students will perform experiments similar to those presently done in modern research settings such as micropipetting, spectrophotometry, electrophoresis, PCR, and cell culturing. This course will also teach students standard laboratory operations, instrumentation and good laboratory safety practices and procedures. **NOTE: This is a weighted course. Course fee required.**

SC 54 Advanced Biotechnology*Prerequisites:** SC 48**2 Sem. — 1 Additional Science/Practical Arts Credit**

This course is designed as a continuation of the Biotechnology Program. Students will be introduced to the scientific concepts and advanced laboratory research techniques currently used in the field of biotechnology. Areas of study include proteomics, plant biotechnology (tissue culturing), synthesizing DNA and PCR, human genetics disease, pharmaceutical biotechnology, DNA sequencing and Genomics. **NOTE: This is a weighted course. Course fee required.**

SC 92 Scientific Research Methods**2 Sem. — 1 Additional Science/Practical Arts Credit**

A rigorous, research-intensive course which provides students with the opportunity to conduct authentic scientific research on a competitive level. With support from local scientists and other researchers, students will develop a research topic, conduct experiments and present their results at the state regional science fair in the spring. Successful projects earn students opportunities for financial and scholarship awards, travel and networking opportunities within the scientific community. **NOTE: It is recommended that this course be taken concurrently with another life or physical science lab course. While this is a rigorous science course, this course does not meet university requirements as a life or physical science content course. NOTE: This is a weighted course.**

CT 59 Biotechnology Sciences - Internship

(see Work Based Learning pages 27-28)

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

**BUSINESS LEADERSHIP, TECHNOLOGY
AND OPERATIONS SUPPORT**

*ADE/CTE approved program for
Business Operations Support and Assistant Services.*

CB 09 Technology Foundations for Business

2 sem. — 1 Practical Arts/Elective Credit

This course is designed for students with a goal of achieving success in the business world. Students will learn to be critical thinkers, develop leadership skills and become proficient in emerging technologies that will make them more employable in the workforce. Students will learn how to manage complex projects and apply technology skills to a mock business. This course will give students the opportunity to earn professional certifications and specializations in the Microsoft Office Suite (Word, Excel, PowerPoint, and Access). Opportunities will be available for students to excel in their leadership skills through FBLA, a Career and Technical Student Organization to travel and compete.

CB 61 Business Leadership, Technology, Management

Prerequisite: CB 09

2 sem. — 1 Practical Arts/Elective Credit

This course is for students with continued interest in business leadership and technology. Students will continue to build advanced skills in Microsoft Office Suite and work towards a professional certification. Students will refine communication skills, increase leadership qualities, and experience hands-on situations through virtual business simulations. Units on personal finance, e-commerce and social media will give students a competitive advantage in the business world. Opportunities will be available for students to excel in their leadership skills through FBLA, a Career and Technical Student Organization to travel and compete.

**COMPUTER TECHNOLOGY:
COMPUTER MAINTENANCE**

ADE/CTE approved programs for Computer Maintenance.

CB 50 Computer Maintenance and Repair

2 Sem. — 1 Practical Arts/Elective Credit

Students will learn hands-on technical aspects of the microcomputer, including system setup (hardware and software) and troubleshooting with use of tools, hardware components and hardware/software interfacing. Install, configure, upgrade, optimize and perform preventive maintenance with respect to security using appropriate tools, diagnostic procedures and troubleshooting techniques. Students will be refurbishing computers to be donated to non-profit organizations through Arizona StRUT (Students Refurbishing Used Technology). Course helps students prepare for the CompTIA A+ certification to establish the foundation of an entry level IT professional. Computer experience highly recommended.

CB 51 Advanced Computer Maintenance

Prerequisite: CB 50

2 Sem. — 1 Practical Arts/Elective Credit

Students will apply skills learned from CB50 Computer Maintenance and Repair to install, support, maintain, and upgrade computer/electronic devices. Students will work with Information Systems staff to support local technologies on their home campus. This will include but is not limited to locating, quarantining, and removing specific viruses, diagnosing hardware problems, supporting printer installations and repairs, and troubleshooting technology issues. Upon successful completion of this course, students will be prepared to pass the COMPTIA A+ Certification. Students will also be refurbishing computers as part of the Arizona StRUT (Students Refurbishing Used Technology) program.

CT 61 Computer Technology - Internship

(see Work Based Learning pages 27-28)

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

**COMPUTER TECHNOLOGY:
SOFTWARE AND APP DESIGN**

ADE/CTE approved programs for Software and App Design.

CB 30 Exploring Computer Coding and App Development

2 Sem — 1 Practical Arts/Elective Credit

This course uses technology to teach innovative, hands-on, team based, problem solving skills while developing programming and application knowledge. Students will explore real world computing problems that address social and ethical issues while delivering foundational computer science knowledge. Students will be introduced to: human computer interaction, problem solving, web design, programming, data analysis, and robotics. Students will engage in several in-depth projects to demonstrate the real-world applications of computing. Successful completion of this course prepares students for AP Computer Science coursework.

CB 36 Coding, App and Web Stack Development

Prerequisite: CB 30

2 Sem — 1 Practical Arts/Elective Credit

Students will build on coding concepts and will learn front and back end web development and database design. This includes learning how to code websites for browsers and mobile devices, with languages such as HTML, CSS, C# and Ruby. Students will learn database design that interface with web applications using MySQL. This course may lead to a full stack development credential.

CB 37 Introduction to Apple iOS App Development

Prerequisite: CB30

2 Sem. — 1 Elective Credit

Students will learn how to code and develop applications for Apple iOS devices by utilizing the XCode application, and the programming languages Objective-C and/or Swift. Students will utilize iOS frameworks and iOS hardware and feature basics. Students will go throughout the entire design process from concept to final product delivery.

CB 39 AP Computer Science Principles

Prerequisites: CB 30

2 Sem. — 1 Practical Arts/Elective

AP Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, AP Computer Science Principles prepares students for college and career. Students will take an AP exam in May. See your school student advisor if you have a financial hardship. **NOTE: This is a weighted course.**

CB 40 AP Computer Science A

Prerequisite: CB 30

2 Sem. — 1 Practical Arts/Elective Credit

This course provides an introduction to college level programming, using the JAVA language. Important concepts include: structured JAVA programming style, assignment and logical operators, decision making, looping, functions, and arrays. Students will also learn the concepts of data structures, classes, inheritance, recursion, and other advanced topics using an object oriented approach. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. Students may seek college credit by taking the Advanced Placement (AP) examination in May. **Note: this is a weighted class.**

CB 70 IB Computer Science Standard Level/Higher Level I

2 Sem. — 1 Practical Arts/Elective Credit

This course explores fundamental concepts of computational thinking as well as knowledge of how computers and other digital devices operate. The course, underpinned by conceptual thinking, draws on a wide spectrum of knowledge, and enables and empowers innovation, exploration and the acquisition of further knowledge. During the course, the student will develop computational solutions through experimental science procedures. The student selects one of four options as an area of focus: databases; modeling and simulation; web science; or object-oriented programming. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

**COMPUTER TECHNOLOGY:
SOFTWARE AND APP DESIGN***ADE/CTE approved programs for Software and App Design.***CB 71 IB Computer Science Standard Level/Higher Level II****Prerequisite:** CB 70 **2 Sem. — 1 Practical Arts/Elective Credit**

This two year course expands on standard level computer science knowledge by analyzing further topics, such as abstract data structures, resource management, and control. The student will research and develop more advanced computational solutions for their option selected in the standard level course. There will be an additional externally assessed component based on a pre-seen case study of an organization or scenario. This requires students to research various aspects of the subject-which may include new technical concepts and additional subject content, in greater depth. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

CT 93 Software and App Design - Internship**Prerequisite:** CB40

(see Work Based Learning page 27)

CONSTRUCTION TECHNOLOGIES*ADE/CTE approved program for Cabinetmaking.***IT 61 Cabinetmaking Technologies****2 Sem. — 1 Practical Arts/Elective Credit**

Students will use machines and processes basic to carpentry and cabinetmaking to construct and finish a core project(s). Safety in general shop procedures, hand tools and power machinery will be stressed. Basic academics and problem-solving skills will be used daily. Approximately 20% classroom and 80% lab. **NOTE: Course fee required.**

IT 62 Advanced Cabinetmaking Technologies**Prerequisites:** IT 61 **2 Sem. — 1 Practical Arts/Elective Credit**

Designed for the intermediate technology student. Students work on products that require multiple materials and processes. Emphasis is placed on ability to construct to specifications of a plan in terms of fit, tolerance, and appearance. Instruction includes use of fixtures and templates for exact replication. Safety is stressed as in IT 61 above. Students apply academics in problem-solving daily. Approximately 20% class and 80% lab. **NOTE: Course fee required.**

CT 63 Construction Technologies - Internship

(see Work Based Learning pages 27-28)

CULINARY ARTS*ADE/CTE approved program for Culinary Arts.***FS 41 Culinary Arts****2 Sem. — 1 Practical Arts/Elective Credit**

This course is designed for students interested in developing skills in Culinary Arts. Emphasis is placed on nutrition, proper equipment use, knife skills, safety, sanitation, and presentation. Foods prepared will include baked goods, soups, salads, appetizers, sandwiches and garnishes. Exploration of culinary careers is also included. **NOTE: Course fee required.**

FS 45 Advanced Culinary Arts**Prerequisites:** FS 41 **2 Sem. — 1 Practical Arts/Elective Credit**

This course encompasses a full culinary food service experience. Focus is on menu development, food preparation, service, and running a simulated business. Job shadowing or internships may be a part of the program. **NOTE: Course fee required.**

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

CULINARY ARTS*ADE/CTE approved program for Culinary Arts.***FS 47 Catering and Special Events Management****Prerequisite:** FS 45**2 Sem. — 1 Practical Arts/Elective**

The catering and special events industries are among the fastest-growing segments within the hospitality industry. This course focuses on catering school and business events. Topics include organizational structure, legal aspects of catering and special events management, product and service development, marketing and sales, catered function and special event planning and execution. Students will be required to attend evening and weekend events. **NOTE: Course fee required.**

CT 65 Culinary Arts - Internship

(see Work Based Learning pages 27-28)

DIGITAL PHOTOGRAPHY*ADE/CTE approved program for Digital Photography.***AR 21 Intro to Digital Photography****2 Sem. — 1 Practical/Fine Arts/Elective Credit**

This course addresses technical and conceptual concepts in relation to historic and contemporary photography. Students experiment with a variety of lighting techniques, parts and use of a digital SLR camera, digital solutions, and conceptual approaches in order to create visually compelling photographs. Students learn how to transfer skills into a career in professional photography. Students will develop an electronic and traditional portfolio. A digital SLR is highly recommended. **NOTE: Course fee required.**

AR 22 Digital Photography**Prerequisite:** AR 21**2 Sem. — 1 Practical Arts/Elective Credit**

This course addresses technical and conceptual concepts in relation to historic and contemporary photography. Students will refine their craft with further study of composition and design, a variety of lighting techniques, use of a digital SLR camera, digital solutions and software applications. Students will both prepare for the professional field of photography, develop an extensive electronic and traditional portfolio that will prepare them for a career or post secondary education. A digital SLR is highly recommended. **NOTE: Course fee required.**

AR 23 Advanced Digital Photography**Prerequisite:** AR 22**2 Sem. — 1 Practical Arts/Elective**

Exploration of advanced techniques will be covered in AR23. Students will develop a portfolio and participate in community projects to prepare students for careers in photography-related fields. Students will refine both their technical and aesthetic skills, as well as refine their efficiency during the post-production/processing phase. At the end of this course, students should be able to plan, create, process, pitch and market a photo job that meets and exceeds industry standards. **NOTE: Course fee required.**

CT 69 Digital Photography - Internship

(see Work Based Learning pages 27)

DIGITAL PUBLICATIONS*ADE/CTE approved program for Digital Communications.***GV 30 Intro to Digital Publications****2 Sem. — 1 Practical Arts/Elective Credit**

This introductory course provides students with opportunities to use digital cameras and learn Adobe design software to communicate their ideas to the world. By using Photoshop, InDesign, and Illustrator, students combine creative talent with technical skills to produce a digital portfolio for the ever changing design industry. This course prepares students for advance study in Digital Photo Studio, Digital Illustration Studio and Digital Publication Studio. **NOTE: Course fee required.**

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

DIGITAL PUBLICATIONS*ADE/CTE approved program for Digital Communications.***GV 31 Digital Publications****2 Sem. — 1 Elective English/Practical Arts/Elective Credit****Prerequisite: GV 30**

Students will produce the school yearbook while being engaged in all areas of publication production. Units of study include teamwork, creative problem solving, reporting, writing, photography, typography, design, finances, marketing and distribution. Students will utilize industry design software, including Adobe products, in the actual production of the yearbook. Additional projects support the program and expand students' digital studio skills. **NOTE: Course fee required.**

GV 32 Advanced Digital Publications**Prerequisite: GV 31****2 Sem. — 1 Practical Arts/Elective Credit**

This innovative course, which incorporates an interactive learning approach, is designed to advance skills in communication, management, writing, design, photography and marketing. Students will have the opportunity to record history, gain in-depth experience in the production of a professional publication (yearbook), run a business with state of the art technology, strengthen their analytical and problem solving skills and improve communication skills appropriate for college and careers. Students will be responsible for every aspect of the production of the yearbook, which include participating in leadership roles, selling advertisements, planning, writing articles, editing, photography and designing pages. **NOTE: Course fee required.**

CT92 Digital Communications - Internship

(see Work Based Learning pages 27-28)

DRAFTING & DESIGN TECHNOLOGIES*ADE/CTE approved program for Architectural Drafting.***IT 31 Intro to Computer Aided Design****2 Sem. — 1 Practical Arts/Elective Credit**

Develops drafting skills and knowledge by extensive practice using current technologies and drafting tools to solve design problems. Specific drafting areas studied include single-view drawing, multi-view drawing, auxiliary views, sections, surface development and three-dimensional drafting. All are necessary for engineering and architectural study. Computer Aided Design (AutoCAD) is used in this class. **NOTE: Course fee required.**

IT 32 Advanced Computer Aided Design**Prerequisites: IT 31****2 Sem. — 1 Practical Arts/Elective Credit**

This course provides an in depth study of architectural and mechanical design. Through a continuous sequence of design projects, students will learn to develop a set of principles that inform/dictate the production of architectural and mechanical products. These principles will be used to clarify the interrelationship of geometry, form, function and composition, thus defining a systematic strategy for architectural and engineering solutions. **NOTE: Course fee required.**

IT 33 Computer Aided Design Special Projects**Prerequisites: IT 32****2 Sem. — 1 Practical Arts/Elective Credit**

Computer Aided Design Special Projects is the capstone for the Computer Aided Design Program of Study. Students will pursue industry certifications in design oriented professions which include architecture and engineering. Students will also have the opportunity to work on a substantial design project that will become part of their portfolio for post-secondary school applications. **NOTE: Course fee required.**

CT 71 Drafting and Design Internship

(see Work Based Learning pages 27-28)

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

EDUCATION PROFESSIONS*ADE/CTE approved program for Education Professions.***FS 52 Early Childhood Professions****2 Sem. — 1 Practical Arts/Elective Credit**

This course focuses on the education profession of preschool through third grade. Students will have the opportunity to develop age appropriate curriculum and environments for children birth to age eight. Students examine a teacher's role in supporting child development and fostering the joy of learning for all young children by using observation strategies and emphasizing the essential role of play. Students will have hands on experiences and will work with preschool children enrolled at their home campus KinderU program. **NOTE: Course fee required.**

FS 53 Teacher Training Program**Prerequisite: FS 52****2 Sem. — 1 Practical Arts/Elective Credit**

This year-long course is an orientation to the teaching profession. Students are exposed to teaching careers and the education system through simulations, "hands-on" activities, and observations. In addition to the curriculum components, all students are required to participate in a field experience in public school classrooms. **NOTE: Course fee required.**

FS 54 Student Teacher Experience**Prerequisite: FS 53****2 Sem. — 1 Practical Arts/Elective Credit**

This course will build on the content knowledge learned in Early Childhood Professions and Teacher Training Program courses. Students will have an opportunity to participate in mini-student teaching experiences that will expose them to different grade level and content areas. This may include, but not limited to, special education, early childhood, elementary and secondary education. Students will complete the program with a better understanding of what education area they will want to pursue post high school. **NOTE: Course fee required.**

CT 73 Education Professions - Internship

(see Work Based Learning pages 27-28)

ENGINEERING*ADE/CTE approved for Engineering Sciences.***IT 41 Introduction to Engineering Design****2 Sem. — 1 Practical Arts/Elective Credit**

A course that teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software. **NOTE: Course fee required.**

IT 42 Digital Electronics**Prerequisites: IT 43****2 Sem. — 1 Practical Arts/Elective Credit**

A course in applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. **NOTE: Course fee required.**

IT 43 Principles of Engineering**Prerequisite: IT 41****2 Sem. — 1 Practical Arts/Elective Credit**

A course that helps students understand the field of engineering/manufacturing technology. Exploring various technology systems and manufacturing processes helps students learn how engineers and technicians use math, science and technology in an engineering problem-solving process to benefit people. The course also includes concerns about social and political consequences of technological change. **NOTE: Course fee required.**

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

ENGINEERING*ADE/CTE approved for Engineering Sciences.***IT 46 Engineering Design and Development****Prerequisite:** IT 43 **2 Sem. — 1 Practical Arts/Elective Credit**

An engineering research course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students apply principles developed in preceding courses and are guided by a community mentor. They must present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the school year. **NOTE: Course fee required.**

IT 50 Aerospace Engineering**Prerequisite:** IT 43 **2 Sem. — 1 Practical Arts/Elective Credit**

This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles. **NOTE: Course fee required.**

IT 55 Robotics**Prerequisite:** IT 43 **recommended 2 Sem. — 1 Practical Arts/Elective Credit**

Students will focus on control circuits, interfaces, and microprocessors applications as they build and program robots. This course also includes the development of robotics software, Computer Integrated Manufacturing tasks, data communication tasks, sensor and control systems tasks, and the application of the engineering design process. Students are strongly encouraged to participate in robotics competitions. **NOTE: Course fee required.**

CT 75 Engineering - Internship

(see Work Based Learning pages 27-28)

ENGINEERING AND ADVANCED MANUFACTURING*ADE/CTE approved program for Precision Machining.***IT 80 Advanced Manufacturing & Mechanical Engineering I****2 Sem. — 1 Practical Arts/Elective Credit**

A course that applies principles of precision manufacturing and mechanical engineering through machining and automation. The course applies solid modeling skills to develop CNC designs. Students learn machine safety, blueprint reading and layout as well as manual and an introduction to CNC machining skills. Fundamental machining concepts and entry level certification are included. **Note: Course fee required.**

IT 81 Advanced Manufacturing & Mechanical Engineering II**Prerequisite:** IT 80 **2 Sem. — 1 Practical Arts/Elective Credit**

A course that applies advanced principles of precision manufacturing and mechanical engineering through machining and automation. The course builds on IT80 and applies solid modeling skills and manual machining to produce advanced CNC projects through solid modeling and direct G-Code entry. Students use Computer Numerical Control and manual lathes, mills and inspection equipment. Basic machining concepts and applied layout mathematics are included and entry level certification skills are expanded. **NOTE: Course fee required.**

IT 82 Advanced Manufacturing and Mechanical Engineering III**Prerequisite:** IT 81 **2 Sem. — 1 Practical Arts/Elective Credit**

A course that applies solid modeling and computer aided manufacturing skills to engineer and build advanced projects. Students use a combination of manual and Computer Numerical Control mills, lathes and inspection equipment to produce custom designs to industry standards. Advanced certification skills are available in modeling, CNC operations and programming. **NOTE: Course fee required.**

CT 79 Manufacturing - Internship

(see Work Based Learning pages 27-28)

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

FINANCIAL SERVICES*ADE/CTE approved program for Financial Services.***CB 26 Financial Services I****2 Sem. — 1 Practical Arts/Elective Credit**

Financial Services introduces students to basic financial planning concepts and illustrates how these concepts relate to everyday life. Topics covered include investments, stocks, mutual funds, real estate, and other financial investments while integrating technology. Students enrolling in the course are strongly encouraged to join FBLA (Future Business Leaders of America). Opportunities through FBLA include leadership development, field trips, travel and competition.

CB 27 Financial Services II**Prerequisite:** CB 26 **2 Sem. — 1 Practical Arts/Elective Credit**

Students will further explore the financial services field and learn how to create and use a budget, borrow and invest wisely, buy large purchase items (automobile, home, and etc.), make appropriate insurance choices (auto, health, life, and housing), learn about taxes and credit rating scores, and how to create a retirement plan. Students will also focus on business math and its application to the real world. Students will learn the fundamentals of starting and/or managing a business. Students enrolling in the course are strongly encouraged to join FBLA (Future Business Leaders of America). Opportunities through FBLA include leadership development, field trips, travel and competition.

CT 77 Financial Services - Internship

(see Work Based Learning pages 27-28)

GRAPHIC DESIGN*ADE/CTE approved program for Graphic/Web Design.***GV 40 Introduction to Graphic Design****2 Sem. — 1 Practical Arts Credit/Elective**

Students will learn the principles of great design and typography while using professional-grade Adobe design software to create digital drawings, logos, advertisements, magazine layouts, and more. Students complete the course with a portfolio. **NOTE: Course fee required.**

GV 41 Graphic Design**Prerequisites:** GV40 **2 Sem. — 1 Practical Arts Credit/Elective Credit**

Students will use Adobe Creative Cloud products as they continue to explore and apply art design principles through motion graphics, electronic image manipulation, page layout and web page design. Students will also learn how to create some of the assets that are found in web pages, animate graphics and build a professional portfolio. **NOTE: Course fee required.**

GV42 Advanced Graphic Design**Prerequisite:** GV41

In this third-level design course, students will be applying their design skills to design and produce graphic works in assigned real-world projects and for actual clients on campus. Students will work with administrators, teachers, coaches, clubs sponsors and more to create posters, flyers, brochures, t-shirts and other promotional materials for their class or programs. Using professional communication skills they conduct information-gathering interviews, set up photo shoot sessions, create design pieces, submit work for review, use feedback to make revisions, and produce final pieces. Field trips to printshops and design studios will also be a part of the curriculum as students will gain first-hand experience of what it is like to work in the design field. **NOTE: This is a weighted course.**

CT 94 Graphic Design- Internship

(see Work Based Learning page 27)

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

HEALTHCARE ASSISTANT*ADE/CTE approved program for Home Health Aide***HE 80 Healthcare Assistant I**

Difficulty: Average **2 Sem. — 1 Practical Arts/ Elective Credit**
Students will be introduced to the fundamentals of patient care as a healthcare assistant. This program focuses on how to safely assist long term care patients with daily activities such as body mechanics, roles and responsibilities of a caregiver, infection control, safety, nutrition and food preparation and home environment maintenance. This program is in alignment with the Arizona Direct Care Worker (attendant care, personal care, homemaker) program. Students who complete both courses will be prepared to take the AHCCS Direct Care Worker certification exam.

HE82 Healthcare Assistant II

Difficulty: Average **2 Sem. — 1 Practical Arts/Elective Credit**
Students will continue to advance their knowledge and skills as a health assistant. In addition to building on prior knowledge, the advanced class will focus on working with people with developmental disabilities. This includes understanding abuse and neglect, roles and requirements of working with developmental disabilities, implementing support plans, daily living, incident reporting and positive behavior supports. Students will also participate in classroom clinicals, where they will work with people with disabilities. This program is in alignment with the Arizona Direct Care Worker (attendant care, personal care, homemaker) program. Students who complete both courses will be prepared to take the AHCCS Direct Care Worker certification exam.

CT 95 Healthcare Assistant - Internship

(see Work Based Learning page 27)

SALES & MARKETING*ADE/CTE approved program for Professional Sales and Marketing.***BE 52 Marketing I****2 Sem. — 1 Practical Arts/Elective Credit**

In today's marketplace, students need to be prepared to sell themselves and their skills. Marketing I will introduce students to the most exciting areas of marketing, such as sports and entertainment, e-commerce, fashion and merchandising, and travel and tourism. Students will learn employability skills as applied to the marketing field. Students enrolling in the course are strongly encouraged to join DECA, which is the career and technical student organization associated with the Marketing program. Opportunities available through DECA include leadership development, field trips, travel, and competition.

BE 53 Marketing II

Prerequisite: BE 52 **2 Sem. — ½ Practical Arts/½ Economics/Elective Credit**
Students will focus on the professional sales and marketing field and become better prepared to compete in a global business economy. The class will focus on the many facets of business and marketing including consumer behavior, legal and ethical issues, management, employability skills, leadership, and opportunities in marketing-related careers. Students enrolling in the course are strongly encouraged to join DECA, which is the career and technical student organization associated with the Marketing program. Opportunities available through DECA include leadership development, field trips, travel, and competition.

BE 54 Student Store**1 Sem. — ½ Practical Arts Credit**

Want to gain work experience without leaving campus? Assist customers, operate cash register, set up displays, and learn retail procedures while working in the student store. Strongly recommended for students enrolling in Marketing. Teacher interview required.

CT 81 Sales & Marketing - Internship

(see Work Based Learning pages 27-28)

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

SPORTS MEDICINE & REHAB SERVICES**HE 91 Prevention and Care of Sports Injuries****2 Sem. — 1 PE/Practical Arts Credit**

Consists of first aid for athletic injuries, basic knowledge of the human body and its functions, understanding of procedures to be followed in common athletic injuries and information on diets for athletes. **NOTE: Course fee required.**

HE 92 Sports Medicine

Prerequisites: HE 91 **2 Sem. — 1 Practical Arts/Elective Credit**
An advanced laboratory course designed for students interested in athletic training, medicine, physical therapy, exercise science and/or other related paramedical fields. Students will examine the causes, prevention, evaluation, management, and rehabilitation of various sport related conditions. Topics regarding research, kinesiology, nutrition, pharmacology, exercise science and implementation of sports medicine programs will also be investigated. Enrolled students will be required to work as student athletic trainers. **NOTE: This course does not count for PE credit. NOTE: Course fee required.**

HE 93 Athletic Training

Prerequisite: HE92 **2 Sem. — 1 Practical Arts/Elective Credit**
This course offers instruction and practical application in the skills and techniques necessary for the prevention and care of athletic injuries. Field experience will be required as students work with athletes as they learn the role and function of athletic training. Students may be required to work after school, weekends and will be supervised by the school's athletic trainer. **NOTE: Course fee required.**

CT 83 Sports Medicine & Rehab Services - Internship

(see Work Based Learning pages 27-28)

THEATER DESIGN & MANAGEMENT*ADE/CTE approved program for Technical Theatre.***PA 93 Theater Design and Management I****2 Sem. — 1 Practical Arts/Elective Credit**

Students will develop knowledge and skills in the areas of set design, lighting design, sound design, audio engineering, makeup design, scene painting, property management, production management, costume design, and technical direction. Course members are required to demonstrate and polish their skills as participants in the after school Performing Arts productions.

PA 94 Theater Design and Management II

Prerequisite: PA 93 **2 Sem. — 1 Practical Arts/Elective Credit**
This course provides students the opportunity to continue mastering the techniques begun in Theater Design and Management I. Course members are required to demonstrate and polish their skills as participants in the after school Performing Arts productions.

CT 85 Theater Design & Management - Internship

(see Work Based Learning pages 27-28)

VIDEO PRODUCTION*ADE/CTE approved program for Film & TV.***GV 20 Intro to Video Production****2 Sem. — 1 Practical Arts/Elective Credit**

This course will give students hands-on learning experiences in producing digital videos, TV broadcasts, and movies. This course will teach students how to produce, shoot, and edit a variety of digital video projects. Students will also learn the basic principles of media literacy, deconstructing commercials, and study television and movie history. Opportunities will be given to students through SkillsUSA, which include leadership development, field trips, travel, and competition. **NOTE: Course fee required.**

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

VIDEO PRODUCTION*ADE/CTE approved program for Film & TV.***GV 21 Video Production**

Prerequisite: GV 20 **2 Sem. — 1 Practical Arts/Elective Credit**
 Students enrolled in this course will build on their production experience by writing, producing, directing, and performing a television broadcast. Students will also produce commercials, public service announcements, highlight reels, news, and feature pieces for the TV broadcast. Students will learn advanced editing techniques and graphic skills using industry-standard software and equipment. Opportunities will be given to students through SkillsUSA, which include leadership development, field trips, travel, and competition. **NOTE: Course fee required.**

GV 22 Advanced Video Production

Prerequisite: GV 21 **2 Sem. — 1 Practical Arts/Elective Credit**
 Students will develop a portfolio and participate in community projects using leadership skills. Students will focus on advanced camera operation, lighting and editing, as well as honing storytelling skills with enhanced video production. **NOTE: Course fee required.**

CT 87 Video Production - Internship

(see Work Based Learning pages 27-28)

WELDING*ADE/CTE approved program for Welding Technologies.***IT 71 Welding I - Basic**

2 Sem. — 1 Practical Arts/Elective Credit
 Basic skills in SMAW (Shielded Metal Arc Welding), GMAW (Gas Metal Arc Welding), FCAW (Flux Core Arc Welding and GTAW (Gas Tungsten Arc Welding) are emphasized. Students will learn metallurgy fundamentals, Oxy-Fuel welding and cutting, welding blueprint reading, employ-ability skills and the basic skills necessary for welding structures. **NOTE: Course fee required.**

IT 72 Welding II - Intermediate

Prerequisites: IT 71 **2 Sem. — 1 Practical Arts/Elective Credit**
 Welding II emphasis advanced skills and knowledge in all welding processes. Students will be introduced to workplace, construction and production applications. Students will also receive instruction on the appropriate technologies and techniques to complete approved personal projects. **NOTE: Course fee required.**

IT 73 Welding and Materials Processes

Prerequisites: IT 72 **2 Sem. — 1 Practical Arts/Elective Credit**
 Advanced program designed to increase the student's skills and knowledge in the field of welding. Speed, accuracy, and quality work are stressed. Also includes instruction in jigwork, mass production processes, machine cutting, and the welding of alloys and some exotic metals. **NOTE: Course fee required.**

IT 74 Advanced Welding

Prerequisites: IT 73 **2 Sem. — Practical Arts/Elective Credit**
 This advanced course is designed to lead the student to some of the many certifications that are available in the welding industry. Some of the certifications available to the student are Shielded Metal Arc Welding, Gas Tungsten Arc Welding and Gas Metal Arc Welding Certification. All Certifications are through Western Technologies. **NOTE: Course fee required.**

CT 89 Welding - Internship

(see Work Based Learning pages 27-28)

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

WORK BASED LEARNING**Cooperative Education Courses**

Grade Level: 12th Grade **2 Sem. — 3 Elective Credits**
Prerequisite: 1 credit earned in CTE Program of Study
 This course is designed for students to apply technical skills attained in CTE Program of Study to real world employment opportunities. Students are REQUIRED to attend one hour of daily classroom instruction and work a minimum of 15 hours per week. Participation in a Career and Technical Student Organization may also be required.

Internship Courses

Grade Level: 12th Grade **2 Sem. – 2 Elective Credits**
Prerequisite: 1 credit earned in CTE Program of Study
 The CTE Internship is a course that provides Career and Technical Education students an opportunity to engage in learning and the application of technical skills through the participation of a structured work experience. The student's Program of Study teacher coordinates the internship experience with the employer. Students are REQUIRED to work a minimum of 15 hours per week.

CT 53 Agricultural Science - Internship**CT 55 Automotive Technologies - Internship****CT 57 Biomedical Sciences - Internship****CT 59 Biotechnology - Internship****CT 61 Computer Technology - Internship****CT 63 Construction Technologies - Internship****CT 65 Culinary Arts - Internship****CT 68 Digital Photography/Publications - Cooperative Education****CT 69 Digital Photography/Publications - Internship****CT 71 Drafting and Design - Internship****CT 73 Education Professions - Internship****CT 74 Engineering - Cooperative Education****CT 75 Engineering - Internship****CT 77 Financial Services - Internship****CT 79 Manufacturing - Internship****CT 81 Sales & Marketing - Internship****CT 83 Sports Medicine & Rehab Services - Internship****CT 85 Theater Design & Management - Internship****CT 87 Video Production - Internship****CT 89 Welding - Internship****CT 91 Internship****CT 92 Digital Communications - Internship****CT 93 Software & App Design Internship****CT 94 Graphic Design - Internship****CT 95 Healthcare Assistant - Internship**

VERIFY OFFERINGS AT SCHOOL SITE

ENGLISH

*NOTE: Courses that will meet the core competency requirements for Arizona universities are marked with an asterisk.**

SUBJECT AREA GOAL:**ARIZONA ENGLISH LANGUAGE ARTS STANDARDS**

The student will become proficient in the State Standards for Reading, Writing, Speaking and Listening, and Language.

The student will be able to apply the concepts of:

READING (including literature and informational text)

- Key Ideas and Details
- Craft and Structure
- Integration of Knowledge and Ideas
- Range of Reading and Level of Text Complexity

WRITING

- Text Types and Purposes (Argumentative, Informative/Explanatory, Narrative)
- Production and Distribution of Writing
- Research to Build and Present Knowledge
- Range of Writing

SPEAKING AND LISTENING

- Comprehension and Collaboration
- Presentation of Knowledge and Ideas

LANGUAGE

- Conventions of Standard English
- Knowledge of Language
- Vocabulary Acquisition and Use

***EN 09 Freshman English**

2 Sem. — 1 English Credit

This course addresses reading literature and informational text, writing, speaking and listening skills, and language concepts (conventions and vocabulary). Students will interact with complex texts, build knowledge through content rich texts, and engage in evidence based reading and writing.

***EN 12 Pre-AP English I**

2 Sem. — 1 English Credit

This course focuses on exploration of complex literary and nonfiction texts through close reading, analytical writing, language study, research and oral communication. The course framework is structured around five big ideas: engaging with texts, constructing texts, focusing on language, investigating through research, and entering the conversation. Students will engage in skill development and knowledge acquisition for active and confident participation in subsequent high school courses.

***EN 14 Pre-AP Honors English I**

2 Sem. — 1 English Credit

An accelerated language arts course with an emphasis on enrichment experiences, focusing on exploration of complex literary and nonfiction texts through close reading, analytical writing, language study, research and oral communication. The advanced course framework is structured around five big ideas: engaging with texts, constructing texts, focusing on language, investigating through research, and entering the conversation. Students will engage in skill development and knowledge acquisition for active and confident participation in subsequent high school courses, including Advanced Placement. **NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

ENGLISH

EN 19 Freshman Essentials of English

2 Sem. — 1 English Credit

This course reinforces basic reading and writing skills while teaching the essential skills of Freshman English at a more individualized pace. The curriculum addresses reading literature and informational text, writing, speaking and listening skills, and language concepts (conventions and vocabulary). EN 19S: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student.

***EN 26 IB MYP Freshman English**

2 Sem. — 1 English Credit

Prerequisites: IB Middle Years Programme Student

An accelerated language arts course with an emphasis on communication skills, including advanced work in literature, composition, grammar, research and reading. There are six skill areas: listening, speaking, reading, writing, viewing and presenting, which develop as both independent and interdependent skills. Students develop these skills through the study of both language and literature. This course is a prerequisite to the IB Diploma Programme courses and takes the place of EN 27. **Note: This is a weighted course.**

***EN 27 Honors Freshman English**

2 Sem. — 1 English Credit

An accelerated language arts course with an emphasis on enrichment experiences, including advanced work in literature, composition, grammar, research and reading, with a focus on critical reading and argumentation. **NOTE: This is a weighted course.**

EN 29 Senior Essentials of English

2 Sem. — 1 English Credit

A course in which the curriculum addresses reading literature and informational text, writing, speaking and listening skills, and language concepts (conventions and vocabulary). Students will engage in evidence based reading and writing. This course reinforces basic reading and writing skills while teaching the essential skills of Senior English at a more individualized pace. EN 29S: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student.

***EN 35 Honors Sophomore English**

2 Sem. — 1 English Credit

An accelerated language arts course with an emphasis on enrichment experiences, including exposure to advanced work in literature, composition, grammar, syntax, research and reading, with a focus on rigor, complexity, and sophistication of content, writing, and language arts skills. **NOTE: This is a weighted course.**

EN 37 Junior Essentials of English

2 Sem. — 1 English Credit

This course reinforces basic reading and writing skills while teaching the essential skills of Junior English at a more individualized pace. The curriculum addresses reading literature and informational text, writing, speaking and listening skills, and language concepts (conventions and vocabulary). EN 37S: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student.

EN 38 Sophomore Essentials of English

2 Sem. — 1 English Credit

This course reinforces basic reading and writing skills while teaching the essential skills of Sophomore English at a more individualized pace. The curriculum addresses reading literature and informational text, writing, speaking and listening skills, and language concepts (conventions and vocabulary). EN 38S: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student.

VERIFY OFFERINGS AT SCHOOL SITE

ENGLISH

EN 40 Shakespeare*Prerequisites:** EN 47**1 Sem. — ½ English Credit**

Shakespeare is a semester-long course that integrates writing for a variety of purposes and audiences with literature study that reflects the culture of England during the Renaissance. Emphasis is placed on the major works of Shakespeare including sonnets while writing activities may include a focus on argumentative, expository, and narrative modes. Along with exploring universal themes, students will recognize Shakespeare's influence in contemporary language, literature, and culture.

EN 41 Critical Thinking and Writing*Prerequisites:** EN 47**1 Sem. — ½ English Credit**

Critical Thinking and Writing teaches inductive, deductive, and analogical reasoning for logical writing, critical analysis, and explication of literature. It emphasizes the processes used in problem-based research. This class prepares students for college and career by giving them practice in formal writing techniques.

EN 44 Creative Writing*Prerequisites:** EN 47**1 Sem. — ½ English Credit**

Extend writing skills already mastered in EN 47 and EN 48. Students are challenged to express themselves across a variety of genres for the purpose of publication.

EN 45 College-Prep Writing*Prerequisites:** EN 48**1 Sem. — ½ English Credit**

Advanced composition that includes descriptive, expository, analytical and argumentative writing along with critical analysis of literature and vocabulary development.

EN 47 Sophomore English*2 Sem. — 1 English Credit**

This course integrates reading literature and informational text with composition. Course content combines the study of speaking and listening, language, and critical thinking skills. Writing exercises emphasize the writing process including deliberate use of diction, syntax, organization, and development of ideas when writing about both fiction and non-fiction texts. Literature study includes use and analysis of literary elements.

EN 48 Junior English*Prerequisites:** EN 47**2 Sem. — 1 English Credit**

This course integrates the modes of essay writing with the study of literature. Course content combines the study of literary models of fiction and nonfiction, and the composition skills of exposition and argument. Composition emphasis is on research skills, development of language skills, and multi-paragraph essays.

EN 49 Senior English*Prerequisites:** EN 48**2 Sem. — 1 English Credit**

This course integrates writing for a variety of purposes and audiences. Writing includes a focus on "real world" skills, including expository, communication, research and analysis modes. Universal themes in literature are explored in a variety of fiction, non-fiction, poetry and drama selections. Readings from a broad variety of authors is surveyed.

EN 52 Mythology*Prerequisites:** EN 47**1 Sem. — ½ English Credit**

Through the analysis of various classical and/or world mythologies, students will gain an appreciation for their cultural contributions and will form a foundation for understanding later literary works. Emphasis will be placed on understanding cultures and human behavior.

EN 54 Paperback Literature*1 Sem. — ½ English Credit**

This course develops skills in both reading and writing. Along with whole-group lessons and discussions, students read, analyze, and write about selected books from various genres. EN 54S: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student.

VERIFY OFFERINGS AT SCHOOL SITE

ENGLISH

EN 56 Multicultural Literature*Prerequisites:** EN 47**1 Sem. — ½ English Credit**

Multicultural Literature is a semester-long course that integrates writing for a variety of purposes and audiences with literature study that reflects different cultures. Emphasis is placed on diverse texts while writing activities may include a focus on argumentative, expository, and narrative modes. Along with exploring universal themes, students will recognize how culture influences how we view the world.

EN 58 Honors American History & Literature*2 Sem. — 1 English Credit**

A unique two-hour block course designed for advanced students who would like to combine writing skills with the study of American history and American literature. This course uses an interrelated chronological approach, and prepares students for college prep courses. **(Must be enrolled in SS 32 concurrently.) NOTE: This is a weighted course.**

EN 60 English (British) Literature*Prerequisites:** EN 47**1 Sem. — ½ English Credit**

British Literature is a semester-long course that integrates writing for a variety of purposes and audiences with literature study that reflects the culture of England from *Beowulf* forward. Emphasis is placed on the works of major English authors and literary movements while writing activities include a focus on argumentative, expository, and narrative modes. Universal themes in literature are explored in a variety of fiction, non-fiction, poetry and drama selections. Readings from a broad variety of authors from English literature are surveyed.

EN 61 Native American Literature**Grade:** 12**1 Sem. — ½ English Credit**

Native American Literature is a semester-long course that integrates writing for a variety of purposes and audiences with the study of a variety of literary genres which are representative of tribes throughout Arizona and the United States. Coursework content includes critical reading and thinking, participation in class discussions, composition and research. Universal themes are also explored through fiction, non-fiction, and poetry selections.

EN 63 Holocaust Literature*Prerequisites:** EN 35 or EN 48**1 Sem. — ½ English Credit**

Holocaust Literature focuses on the time period from 1933 to 1945. The history of the Holocaust and the rise of Hitler and the Nazis will be studied, but the main focus will be on the resulting literature. Works will be read that were written before, during, and after the Holocaust, and may include some more recent occurrences of genocide.

EN 64 English Composition 102*1 Sem. — ½ English Credit**

This course's prerequisite is English Composition 101 with the student scoring a C or higher as a final grade. Emphasis on rhetoric and composition with a focus on argument, research-based writing and understanding writing as a process. Developing advanced college-level writing strategies through writing projects comprising at least 5,000 words in total. This course is in partnership with the Maricopa Community Colleges and a tuition applies. If students have a financial hardship paying for the tuition, contact school advising.

EN 65 IB MYP Sophomore English*Prerequisites:** EN 26 or EN 27**2 Sem. — 1 English Credit**

This is an academically rigorous program in composition and American literature that equips students with linguistic, analytical and communicative skills that can also be used in an interdisciplinary manner across all other subject groups. There are six skill areas: listening, speaking, reading, writing, viewing and presenting, which develop as both independent and interdependent skills. Students develop these skills through the study of both language and literature. This course is a prerequisite to the IB Diploma Programme courses and takes the place of EN 35. **Note: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

ENGLISH

**EN 66 and EN 69 IB Literature and Performance
Standard Level I & II**

Prerequisites: IB Diploma Programme Student **4 Sem. — 2 English Credits**
This comprehensive 2-year course is an interdisciplinary synthesis of language A (English) and theatre. It incorporates essential elements of literature and performance and aims to explore the dynamic relationship between the two. The course as a whole examines literary and dramatic texts and seeks to develop intellect, imagination and creativity. It encourages intercultural awareness through a study of texts from more than one culture. **NOTE: This is a weighted course.**

***EN 68 Technical Writing**

Prerequisites: Typing recommended **1 Sem. — ½ English Credit**
Technical writing is the art and science of translating technical information into readable, accessible writing usable by a wide audience. Technical writers create manuals, help support communication systems, on-line help systems, and instructions. Since nearly every business in every industry imaginable has at least an occasional need to bring technical information to its users and customers, technical writing is found in nearly every business, governmental, and non-profit arena. This course develops communication skills crucial in the modern workplace.

***EN 70 AP English Language & Composition**

2 Sem. — 1 English Credit

This course involves college level reading and writing, focusing on rhetorical analysis in order to prepare students for the Advanced Placement (AP) exam in May. If students have a financial hardship paying for the exam, see your school Student Advisor. This course fulfills the junior English requirement. **NOTE: This is a weighted course.**

***EN 71 AP English Literature & Composition**

2 Sem. — 1 English Credit

This course involves college level reading and writing, focusing on literary analysis of novels, poetry, and prose in order to prepare students for the Advanced Placement (AP) exam in May. If students have a financial hardship paying for the exam, see your school Student Advisor. This course fulfills the senior English requirement. **NOTE: This is a weighted course.**

***EN 72 English Composition 101**

1 Sem. — ½ English Credit

Emphasis on rhetoric and composition with a focus on expository writing as a process. Establishing effective college-level writing strategies through four or more writing projects comprising at least 3,000 words in total. Students will be required to take the ACCUPLACER test to be eligible for enrollment. This course is in partnership with the Maricopa Community Colleges and a tuition applies. If students have a financial hardship paying for the tuition, contact school advising.

EN 73 Speech/Communications Arts

1 or 2 Sem. — ½ or 1 English Credit

Review of the various formal and informal areas of oral communications. Includes interpersonal communication skills, listening techniques, public speaking, group discussions and oral interpretation.

EN 74 Debate

1 Sem. — ½ English Credit

This is a semester-long academic course that is open to all students with a desire to learn the skills associated with debate, argumentation and rhetoric. Students will be required use skills in argumentation, research, critical reading and thinking, public speaking, and rhetoric to prepare and present debates and speeches.

EN 75 Advanced Speech & Debate

2 Sem. — 1 English Credit

This is a yearlong co-curricular academic honors course that is open to all students. Students will be required use their skills in advanced acting, rhetoric, public speaking and debate to produce and compete in locally and nationally sanctioned competitive events. **NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

ENGLISH

***EN 80 Humanities**

Prerequisites: EN 47

1 Sem. — ½ English Credit

To help students gain a better understanding of world culture through a critical examination of art, literature, music, drama and dance. Students develop an aesthetic sensitivity and appreciation for the creative process and thereby gain a better understanding of themselves. Reading of the classics emphasized, and composition skills reinforced through critical essays analyzing the masterpieces of each literary genre.

EN 84 Journalism I

Prerequisites: Typing recommended

1 Sem. — ½ English Credit

Students learn to report news, write editorials and news features, but should not attempt this class unless they have attained proficiency in writing. Above average English grades are required.

EN 86 Yearbook Publications

Prerequisites: Teacher interview required **1 or 2 Sem. — ½ or 1 English Credit**

Designed to teach students the basic techniques of publication. The final project is the school yearbook.

***EN 87 Journalistic Writing (NewsLab)**

Prerequisites: Journalism I recommended

1 Sem. — ½ English Credit

This intensive composition course focuses on professional writing in English with emphasis on journalistic style and format, analysis and organization of information, and accuracy and clarity into concise prose. Students will implement the writing process (research, note taking through editing, proofreading, and publication), as well as be trained in interviewing, news ethics, news writing, photography, design layout, production, and circulation of the school publication. Literary genres studied include fiction, nonfiction, historical documents, biographies, autobiographies and essays.

***EN 91 IB English Higher Level I**

Prerequisite: EN 35 or EN 65

2 Sem. — 1 English Credit

This course explores a detailed studies approach to works written in English in which students examine a variety of genres and themes. Skills focus upon close reading techniques, language effects, written literary analysis and oral commentary. Literary pieces include British classics as well as works written by modern ethnic Americans. Instruction and assignments prepare students for two compulsory IB exams: individual oral commentary and individual oral presentation. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

***EN 92 IB English Higher Level II**

Prerequisite: EN 91

2 Sem. — 1 English Credit

The focus of this course is the examination of classical works from world literature and American drama. Through a variety of literary genres, students will examine international works for theme, cultural influences, and the human experience. Literary analysis, social criticism and comparative analysis will also be emphasized. Student will practice written commentary on both examined and unexamined pieces, preparing them for compulsory IB exams: two comparative studies of 1000-1500 words, a written commentary on an unseen text, and a written response to a series of curriculum-specific questions. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

EN 99 Independent Study**Frequently Asked Questions About English**

WHAT ENGLISH CLASSES ARE REQUIRED TO GRADUATE? **All students are required to take and pass Freshman English, Sophomore English, Junior English and a fourth year of English. If a student is enrolled in the essentials or honors program, substitute requirements are made. Four credits of English are required for graduation.**

DO READING CLASSES FULFILL GRADUATION REQUIREMENTS IN ENGLISH? **No. Reading courses count for elective credit only. English credit is given only for those courses that have an 'EN' prefix.**

VERIFY OFFERINGS AT SCHOOL SITE

ENGLISH LANGUAGE DEVELOPMENT (ELD)

ELD 17 Introduction to Integrated English Writing and Grammar I

2 Sem. — 1 English Credit

Prerequisites: Primary home language is other than English and AZELLA Overall Proficiency Level is at Pre-emergent/Emergent/Basic

This course introduces students to foundational English language grammar, structure, and writing. Students learn basic syntactic elements of English (nouns, verbs, modifiers, etc.), phonetic and semantic aspects of the language, as well as the production of declarative, imperative, interrogative, and exclamatory sentences. This course integrates knowledge of English language grammar and structure into sentence expansion and writing forms (paragraphs and essays). Grammar skills are used to develop skills in pre-writing, draft composition, and editing using a writing process format.

ELD 18 Introduction to Integrated English, Reading, Listening and Speaking, and Vocabulary I

2 Sem. — 1 Elective Credit

Prerequisite: Primary home language is other than English and AZELLA Overall Proficiency Level is at Pre-emergent/Emergent/Basic

This course extends students' proficiency of English language listening, speaking, vocabulary, and reading skills through an integrated approach. Students refine the correct use of receptive and expressive language to reinforce advanced word analysis, fluency, relevant academic vocabulary, and comprehension. Through literary and informational text, students continue to expand reading and conversational skills related to academic success.

ELD 27 Intermediate Integrated English Writing and Grammar II

2 Sem. — 1 English Credit

Prerequisites: Primary home language is other than English and AZELLA Overall Proficiency Level is at Intermediate

This course extends students' proficiency of English language grammar, structure, and writing. Students learn advanced syntactic elements of English (nouns, verbs, modifiers, etc.) along with phonetic and semantic aspects of the language, and the production of more complex sentences containing conjunctions, transitions, and prepositional phrases. This course integrates knowledge of advanced English language grammar and structure into sentence expansion and writing forms (paragraphs and essays). Students continue to refine grammar skills to develop pre-writing, draft composition, and editing using a writing process format.

ELD 28 Intermediate Integrated English Reading, Listening and Speaking, and Vocabulary II

2 Sem. — 1 Elective Credit

Prerequisite: Primary home language is other than English and AZELLA Overall Proficiency Level is at Intermediate

This course extends students' proficiency of English language listening, speaking, vocabulary, and reading skills through an integrated approach. Students refine the correct use of receptive and expressive language to reinforce advanced word analysis, fluency, relevant academic vocabulary, and comprehension. Through literary and informational text, students continue to expand reading and conversational skills related to academic success.

VERIFY OFFERINGS AT SCHOOL SITE

MATHEMATICS

*Note: Courses that will meet the core competency requirements for Arizona universities are marked with an asterisk. **

SUBJECT AREA GOAL:

The student will meet or exceed Arizona Mathematics Standards.

***MA 27 Algebra I**

2 Sem. — 1 Math Credit

Mathematical practices and modeling with mathematics are embedded into standards for algebra to include the study of number and quantity, functions, reasoning with equations and inequalities, and interpreting categorical and quantitative data. Instructional time and learning focuses on three critical areas: (1) Deepen and extend understanding of linear and exponential relationships; (2) Engage in methods for analyzing, solving, and using quadratic functions; and (3) Apply linear models to data that exhibit a linear trend. MA 27S: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student.

MA 30 Geometry*Prerequisites:** MA 27

2 Sem. — 1 Math Credit

Mathematical practices and modeling with mathematics are embedded into standards for geometry to include the study of congruence, similarity, right triangles, and trigonometry, circles, expressing geometric properties with equations, and geometric measurement and dimension. Instructional time and learning focuses on five critical areas: (1) Establishing criteria for congruence of geometric figures based on rigid motions; (2) Establishing criteria for similarity of geometric figures based on dilations and proportional reasoning; (3) Develop understanding of informal explanations of circumference, area, and volume formulas; (4) Proving geometric theorems; and (5) Solve problems involving right triangles. MA 30S: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student.

MA 32 Honors Geometry*Prerequisite:** MA 27 and teacher recommendation

2 Sem. — 1 Math Credit

Mathematical practices and modeling with mathematics are embedded into standards for honors geometry to include the study of congruence, similarity, right triangles, and trigonometry, circles, expressing geometric properties with equations, and geometric measurement and dimension. Instructional time and learning focuses on five critical areas: (1) Establishing criteria for congruence of geometric figures based on rigid motions; (2) Establishing criteria for similarity of geometric figures based on dilations and proportional reasoning; (3) Develop understanding of informal explanations of circumference, area, and volume formulas; (4) Proving geometric theorems; and (5) Solve problems involving right triangles. In addition, the curriculum includes rigorous proofs, algebraic representations of geometric concepts, transformational geometry and coordinate geometry. **NOTE: This is a weighted course.**

MA 35 Personal Finance**Prerequisite:** MA 27 and MA 30

1-2 Sem. — ½ - 1 Math Credit

This course introduces students to the basics of financial literacy including such topics as creating personal financial goals, saving and investing, banking, using debit and credit cards, making major purchases, paying payroll and other taxes, and purchasing insurance. By emphasizing the importance of setting goals and creating a financial plan, students learn to think before spending. Students will learn how credit scores can impact one's ability to secure a loan and, in some cases, determine whether they will be hired for a job. Students will also become familiar with some of the reality that faces everyone when they get their first job, their first apartment, or just take on more personal financial responsibilities. MA 35S: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student.

VERIFY OFFERINGS AT SCHOOL SITE

MATHEMATICS

MA 38 Algebra Applications**Prerequisites:** MA 27 and MA 30**2 Sem. — 1 Math Credit**

This course extends and applies the concepts of Algebra I and introduces concepts from Algebra II. The curriculum includes the study of linear, quadratic, polynomial, and exponential functions. Data collection and analysis are emphasized and technology is utilized. Projects and math labs, designed to integrate mathematics and science, are used to teach and reinforce concepts. MA 38S: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student.

MA 39 Pre-AP Algebra I**2 Sem. — 1 Math Credit**

This course is designed to deepen students' understanding of three big ideas: how the structure of the real numbers systems leads to the rules of algebraic manipulation, how to use functions as a tool for modeling the world, and what information the solutions to a mathematical model can and cannot tell you. The Pre-AP Algebra I course framework is organized around four core units of study: linear equations and functions, system of equations and inequalities, quadratic functions, and exponential properties and functions. Students will engage in skill development and knowledge acquisition for active and confident participation in subsequent high school courses. In addition, all additional standards set by the state of Arizona for Algebra I will be addressed in this course.

MA 40 Algebra II*Prerequisites:** MA 27 and MA 30**2 Sem. — 1 Math Credit**

This course expands on standards from algebra and geometry. Algebra 2 embeds mathematical practices and modeling with mathematics into standards to include the study of rational exponents, quantitative reasoning, the complex number system, and reasoning with equations and inequalities. Instructional time and learning focuses on four critical areas: (1) Extending the real number system to the complex number system, representing radicals with rational exponents; (2) Solving and interpreting solutions to a variety of equations, inequalities, and systems of equations; (3) Demonstrate competency graphing and interpreting functions extending from linear, quadratic, and exponential with integer exponents to polynomial, radical, rational, exponential with real exponents, logarithmic, trigonometric functions, and piecewise defined functions; and (4) Extend simple and compound probability calculations to conditional probability.

MA 41 Honors Algebra II*2 Sem. — 1 Math Credit****Prerequisites:** MA 27 & MA 30 or MA 32. A placement test may be required.

A fast paced course that expands on standards from algebra and geometry. Honors Algebra II embeds mathematical practices, applications and modeling with mathematics into standards to include the study of rational exponents, quantitative reasoning, the complex number system, and reasoning with equations and inequalities. Instructional time and learning focuses on four critical areas: (1) Extending the real number system to the complex number system, representing radicals with rational exponents; (2) Solving and interpreting solutions to a variety of equations, inequalities, and systems of equations; (3) Demonstrate competency graphing and interpreting functions extending from linear, quadratic, and exponential with integer exponents to polynomial, radical, rational, exponential with real exponents, logarithmic, trigonometric functions, and piecewise defined functions; and (4) Extend simple and compound probability calculations to conditional probability. **NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

MATHEMATICS

MA 42 College Algebra/Trigonometry (Precalculus)*Grades:** 11-12**2 Sem. — 1 Math Credit****Prerequisites:** MA 40 or MA 41

This is a rigorous course consisting of one semester of College Algebra/Functions (equivalent to MAT152 at MCC) and one semester of Plane Trigonometry (equivalent to MAT182 at MCC). Completion of both semesters of this course is equivalent to MAT187 Precalculus at MCC. This course prepares students for AP Calculus AB. Topics emphasized in the course include: functions, mathematical modeling, exponential and logarithmic equations and inequalities, and trigonometry. This course may be taken for dual enrollment in conjunction with MCC.

MA 43 Contemporary Mathematics with Modeling*Grades:** 11-12**2 Sem. — 1 Math Credit****Prerequisites:** MA 40

This course is aligned with Arizona's College and Career Ready 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. Discrete math concept units include Algebra Modeling, Data Modeling, Probability and Combinatorics, Vertex-Edge Graphs, and Analysis of Change.

MA 45 Honors Precalculus*Prerequisites:** MA 40 or MA 41**2 Sem. — 1 Math Credit**

An in depth study of algebraic, trigonometric, logarithmic, exponential functions, related graphing applications and an introduction to limits. Students will use analytical, numerical, graphical, and verbal approaches to solving problems. **NOTE: This is a weighted course.**

MA 50 AP Calculus AB*2 Sem. — 1 Math Credit****Prerequisites:** MA 42, MA 45 or teacher recommendation

Parallels the typical first semester of college calculus and includes a review and extension of analytical geometry, a study of functions, limits, continuity, differential calculus, transcendental functions, and techniques of integration. Both theory & application are emphasized. Students will use analytical, numerical, graphical, and verbal approaches to solving problems. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course.**

MA 51 AP Calculus BC*2 Sem. — 1 Math Credit****Prerequisites:** MA 45, MA 50 or teacher recommendation

Intended for students who have a thorough knowledge of analytic geometry and elementary functions in addition to college preparatory algebra, geometry and trigonometry. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course.**

MA 52 AP Statistics*Grades:** 11 & 12**2 Sem. — 1 Math Credit****Prerequisite:** MA 40 or MA 41

Students are introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1. Exploring Data: Describing patterns and departures from patterns, 2. Sampling and Experimentation: Planning and conducting a study, 3. Anticipating Patterns: Exploring random phenomena using probability and simulation, and 4. Statistical Inference: Estimating population parameters and testing hypotheses. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

MATHEMATICS

MA 53 Calculus with Analytic Geometry III

Prerequisite: MA 51 **2 Sem. — 1 Math Credit**
Multivariate calculus including vectors, vector-valued functions, partial differentiation, multiple integration and an introduction to vector fields. **NOTE: This is a weighted course.**

MA 60 Math Skill Builder

2 Sem. — 1 Elective Credit

An elective class designed to reinforce prerequisite skills for mathematics courses and to support students in the area of content. This course is taught as a companion course with other math courses when needed. This course does not count as a required math credit toward graduation. Successful completion of the course will provide students with elective credit. MA 60S: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student.

MA 82 & MA 83 IB Mathematics Applications and Interpretations Standard Level I & II

Prerequisite: MA 40 **4 Sem. — 2 Math Credits**

This course is intended for students who wish to pursue studies at the university in subjects such as economics, business, social sciences and humanities. This course is designed for students who enjoy describing the real world and solving practical problems using mathematics, those who are interested in harnessing the power of technology alongside exploring mathematical models and enjoy the more practical side of mathematics. Coursework will include functions, geometry, trigonometry, statistics, probability, graph theory, introduction to calculus, and an emphasis on modeling. IB requires an internal assessment of a mathematical investigation and two written examinations to complete the course work. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

MA 84 & MA 85 IB Mathematics Analysis and Approaches Standard Level I&II

Prerequisite: MA 40 **4 Sem. — 2 Math Credits**

This course is intended for students with a strong mathematical background who wish to pursue studies at the university in subjects that have a large mathematical content such as math, engineering or physical sciences. It is for students who enjoy developing mathematical arguments, problem solving and exploring real and abstract applications. Coursework will include functions, trigonometry, vectors, complex numbers, statistics and calculus. IB requires an internal assessment of a mathematical investigation and two written examinations to complete the course work. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

MA 86 & MA 87 IB Mathematics Applications and Interpretations Higher Level I&II

Prerequisite: MA81 or MA41 **4 Sem. — 2 Math Credit**

This course is intended for students with strong mathematical background who wish to pursue studies at the university in subjects such as economics or business. This course is designed for students who enjoy describing the real world and solving practical problems using mathematics, those who are interested in harnessing the power of technology alongside exploring mathematical models and enjoy the more practical side of mathematics. Coursework will include functions, trigonometry, matrices, statistics, probability, vectors, graph theory, calculus, differential equations, and an emphasis on modeling. IB requires an internal assessment of a mathematical investigation and three written examinations to complete the course work. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

MATHEMATICS

MA 88 & MA 89IB Mathematics Analysis and Approaches Higher Level I&II

Prerequisite: MA83 or MA45 **4 Sem. — 2 Math Credits**

This course is intended for students with a very strong mathematical background who wish to pursue studies at the university in subjects that have a large mathematical content such as math, engineering or physical sciences. It is for students who enjoy developing mathematical arguments, problem solving and exploring real and abstract applications. Coursework will include functions, trigonometry, vectors, complex numbers, statistics, calculus, series, differential equations and formal proofs. IB requires an internal assessment of a mathematical investigation and three written examinations to complete the course work. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

MA 99 Independent StudyMILITARY SCIENCE/LEADERSHIP ARMY JROTC**Subject Area Goal**

- Develop good citizenship and patriotism.
- Instill self-reliance, leadership and responsiveness to constituted authority.
- Develop a cooperative spirit and the necessity of working together as a team.
- Strengthen ability to think logically and to communicate effectively (orally and written).
- Gain an appreciation of the importance of physical fitness in maintaining good health.
- Familiarity with the history, purpose, and structure of the military services with emphasis on accomplishments of the United States Army.
- Better appreciation of America's National Heritage.
- Develop citizenship, character, and leadership
- Communicate effectively
- Improve physical fitness
- Live drug-free
- Strengthen positive self-motivation/esteem
- Learn the historical perspective of military service
- Work as team members
- Graduate and pursue meaningful careers

The following applies to all Army JROTC LET classes:

The JROTC curriculum, which fully or partially addresses a number of national academic standards - to include Arizona Academic State Standards - includes course work on leadership, civics, geography and global awareness, health, and wellness, language arts, life skills, and U.S. history. The curriculum is based on the principles of performance-based, learner-centered education and promotes development of core abilities: capacity for life-long learning, communication, responsibility for actions and choices, good citizenship, respectful treatment of others, and critical thinking techniques.

VERIFY OFFERINGS AT SCHOOL SITE

MILITARY SCIENCE/LEADERSHIP ARMY JROTC

MS 31 Army JROTC LET-I

2 Sem. — 1 Practical Arts/Elective Credit

Introduction to leadership theory and application, foundation for success, communication/study skills, citizenship, military customs and courtesies, physical training, drill, and the history and objective of JROTC. Cadets gain an understanding of their rights, responsibilities (including respect for constituted authority), privileges and freedoms that underlie good citizenship. They must demonstrate the ability to think logically and communicate effectively, with emphasis on effective oral communication and participate in service learning activity. The program stresses physical fitness in maintaining good health and appearance. The underlying keys to the program are loyalty, trustworthiness, dedication, leadership, discipline and teamwork.

MS 32 Army JROTC LET-II

2 Sem. — 1 Practical Arts/Elective Credit

Prerequisites: Must have completed Army JROTC LET-I

Study of wellness, fitness and first aid, drug awareness, ethical values and principles of good citizenship in American history and Government. Demonstrate knowledge of military drill, map reading and physical training. The student will be expected to understand and demonstrate the traits, principles and styles of leadership with emphasis on squad and platoon level positions and the temptations of leadership. Students study the constitutional basis for the Federal Judicial System and military law enforcement. They will review the freedoms guaranteed by the Bill of Rights to the constitution with emphasis on the five basic freedoms of the First Amendment and the amendments that establish and protect the rights of accused persons. Study the original provisions of the U.S. Constitution and participate in service learning activity.

MS 33 Army JROTC LET-III

2 Sem. — 1 Practical Arts/Elective Credit

Prerequisite: Must have successfully completed Army JROTC LET-II

Continue to develop leadership and character traits. Study of leadership strategies, command and staff principles, foundation of success, managing conflict, career planning, time management, financial planning, citizenship in American history and government with continued practical work in leadership, drill, technology awareness, and methods of instruction, service learning, map reading and physical training.

MS 34 Army JROTC LET-IV

2 Sem. — 1 Practical Arts/Elective Credit

Prerequisite: Must have successfully completed Army JROTC LET-III

Continue to develop leadership and character traits. Demonstrate leadership potential as a role model, coach, counselor, management skill and assistant instructor. Study service to the Nation and financial planning, with continued practical work in drill, technology awareness, physical training and command and staff principles. Assist instructor in the LET level class assigned in drill, physical training and inspections with a requirement to teach a minimum of one class for each subject taught for the LET level class assigned, with emphasis placed on proper teaching methods and preparation of lesson plans. Normally in an advance leadership position and the responsibilities of command functions with continued practical work in drill, technology awareness, and physical training. Senior cadets assist in instructing the younger cadets while completing a "Self-paced course of instruction." Emphasis on ethical situations that affect behavior, standards of morality and the decisions that are made in light of these and other factors such as laws/regulations, basic national rights, traditional military values, personal values and institutional pressures. Participate in service learning activity

VERIFY OFFERINGS AT SCHOOL SITE

MILITARY SCIENCE/LEADERSHIP ARMY JROTC

MS 35 Special Teams

1 Sem. — ½ PE/Practical Arts/Elective Credit

Prerequisite: Concurrent enrollment in a MS31, MS32, MS33 or MS34

An "A" hour program in which cadets can participate in competition Drill and/or Raider teams. The purpose is to introduce cadets to teamwork. Drill is a very positive activity that instills a heightened sense of discipline and leadership, precision drill that builds self-confidence and strengthen self-esteem. The drill teams consist of Color Guard, Unarmed Drill, and Armed Drill. Each team also participates in competitions primarily within the state of Arizona. Color Guard presents the battalion and national colors at various community activities, competitions, and sporting events. Armed drill performs both regulation and exhibition drill with facsimile M1903 rifles at various competitions and community activities. Unarmed Drill performs both regulation and exhibition drill without weapons. The Raiders/Orienteering team focus on land navigation and competes in various competition meets within the state. The Raiders are the most physically challenging of the co-curricular activities.

MUSIC/PERFORMING ARTS

SUBJECT AREA GOAL:

Students will meet or exceed the Arizona Music Standards by performing, valuing and identifying music as a meaningful part of their education.

ESSENTIAL SKILLS:

The student will:

- Perform alone and with others music from various genres and diverse cultures
- Improvise and create music
- Utilize the vocabulary and notation of music
- Respond to music aesthetically, intellectually and emotionally
- Recognize and describe the relationships among music, the arts and other disciplines outside the arts
- Understand music in relation to history and culture
- Evaluate music and music performances

MU 17 Beginning Instrumental Music

1 or 2 Sem. — ½ or 1 Fine Arts/Elective Credit

Prerequisite: Placement by teacher recommendation

Beginning Instrumental Music is a class for students with limited or no prior instrumental performance experience on one of the following instruments: flute, oboe, bassoon, clarinet, saxophone, trumpet/cornet, horn, trombone, euphonium, tuba, percussion, violin, viola, cello, string bass. Percussionists will be expected to learn both pitched and non-pitched instruments. Basic fundamentals of music are stressed. Placement is by teacher recommendation.

MU 29 Beginning Guitar

1 or 2 Sem. — ½ or 1 Fine Arts/Elective Credit

Prerequisites: Must have access to classical or acoustic guitar

MU 29 introduces the student to the guitar and playing techniques for the instrument. The course, designed for beginners, includes note reading, rhythms and basic guitar skills. Both individual and group studies are included. Public performance is a possibility. **NOTE: Course fee required.**

MU 30 Intermediate Guitar

1 or 2 Sem. — ½ or 1 Fine Arts/Elective Credit

Prerequisites: MU29 or audition. Must have access to classical or acoustic guitar.

MU 30 is a continuation of MU 29. An entrance audition is required if MU 29 was not taken. Students will study more advanced chords, rhythms, note reading and harmony techniques. Both individual and group studies are included. Public performance is a possibility. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

VERIFY OFFERINGS AT SCHOOL SITE

MUSIC/PERFORMING ARTS

MU 31 Advanced Guitar

1 or 2 Sem. — ½ or 1 Fine Arts/Elective Credit

Prerequisites: MU30 or audition. Must have access to classical or acoustic guitar.

MU 31 is a continuation of MU 30. Emphasis is on advanced note reading and rhythms, use of upper positions and solo playing. Individual and group studies are included. Public performance is a possibility. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 32 Rock, Jazz and other Music: Influences in America**Prerequisites:** None 1 Sem. — ½ Fine Arts/Elective Credit

This is a non-performance music appreciation class which introduces the basic elements of music through the study of the historical development and varied styles of American music. Included are early American music, rock and roll, jazz and 20th Century instrumental and choral music.

MU 33 AP Music Theory**Prerequisites:** Teacher recommendation 2 Sem. — 1 Fine Arts/Elective Credit

MU 33 is for the serious, advanced music student who wishes to broaden his/her scope in the science and fundamentals of music theory. Included is the study of harmony, music history, conducting, composition and arranging. MU33/AP Music Theory is a weighted class which prepares students for the AP Exam in May. Students must pass the fall semester in order to continue in the spring. Placement is by teacher recommendation. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course.**

MU 57 Introduction to Music Theory

2 Sem. — 1 Fine Arts/Elective Credit

MU 57 is a course that emphasizes fundamental musical techniques and theoretical concepts. Students will learn intervals, scales, triads; basic concepts of tonality and form; analysis of representative works. Students develop a sense of self-discipline required for the study of music, a sense of relative pitch, a verbal musical literacy, and an ability to listen actively.

MU 59 Music and Culture

1 Sem. — ½ Fine Arts/Elective Credit

MU 59 is a non-performance class, which introduces students to music from various cultures around the world. Recognition of cultural traits and how they influence musical styles is emphasized. **NOTE:** Students who are enrolled in the Conservatory Program at Mountain View High School will receive priority enrollment in this course.

MU 61 Survey of Western Music

1 Sem. — ½ Fine Arts/Elective Credit

MU 64 is a non-performance class, which introduces students to Western music from the medieval times through the modern period. Recognition of stylistic traits in Western music and their relationship to the appropriate historical period is emphasized. **NOTE:** Students who are enrolled in the Conservatory Program at Mountain View High School will receive priority enrollment in this course.

MU 66 Class Piano

2 Sem. — 1 Fine Arts/Elective Credits

MU 66 is an introductory, group piano class that will teach basic piano skills. Elements of music theory will also be introduced. It is highly recommended that this course be taken prior to AP Music Theory, though this is not a requirement. **NOTE: Students who are enrolled in the Conservatory Program at Mountain View High School will receive priority enrollment in this course.**

VERIFY OFFERINGS AT SCHOOL SITE

MUSIC/PERFORMING ARTS

MU 71 Men's Chorus

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

Beginning male singers may enroll in Men's Chorus. Students will learn music reading/notation/listening skills, explore music history and appropriate vocal technique through the performance of various genres of choral music. Singers will participate in 5-8 performances per year. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 72 Women's Chorus

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

Beginning female singers may enroll in Women's Chorus. Students will learn music reading/notation/listening skills, explore music history and appropriate vocal technique through the performance of various genres of choral music. Singers will participate in 5-8 performances per year. Special attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 73 Advanced Women's Chorus

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

MU 73 is a choir for qualified women with advanced singing abilities. Students will further their music reading/notation/listening skills, explore music history and appropriate vocal technique through the performance of various genres of choral music. Singers will participate in 5-8 performances per year. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 74 Mixed Chorus

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

MU 74 is open to high school students who want to improve their musical skills, sight-reading techniques, vocal techniques and stage presence. Students will explore music history and vocal pedagogy through the performance of various genres of choral music. Students will participate in performances outside the classroom setting. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 75 Advanced Mixed Chorus

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

MU 75 is an advanced choir for qualified men and women. Students will cultivate their music reading/notation/listening skills, explore music history and appropriate vocal techniques through the performance of various genres of choral music. Students will participate in 5-8 performances per year. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 76 Advanced Mixed Chamber Ensemble

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

MU 76 is an advanced chamber ensemble for qualified men and women. Students will cultivate their music reading/notation/listening skills, explore music history and appropriate vocal techniques through the performance of various genres of choral music. Singers will participate in 5-8 performances per year, including formal and invitational events. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

VERIFY OFFERINGS AT SCHOOL SITE

MUSIC/PERFORMING ARTS

MU 77 Advanced Women's Chamber Ensemble

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

MU 77 is an advanced chamber ensemble for women. Students will cultivate their music reading/notation/listening skills, explore music history and appropriate vocal techniques through the performance of various genres of choral music. Singers will participate in 5-8 performances per year, including formal and invitational events. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 78 - Intermediate Mixed Show Choir

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

Intermediate show choir is a mixed voice choral group that also focuses on choreography integrated into each musical performance. Students in the group will demonstrate competency in basic music skills as well as develop basic dance skills and vocabulary related to dance concepts. Students will participate in 4-6 concerts per year and wear concert attire based on the performance venue and the objective for the concert or competition. Placement is by teacher recommendation and audition. **NOTE: Course fee required.**

MU 80 Concert Band

1 or 2 Sem. — ½ or 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

Concert Band provides opportunities for the average band student to play in a performing organization. Emphasis is placed on improving individual reading and performance skills. This ensemble will prepare and perform concerts each semester, some of which may be other than during school hours. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 81 Marching Band

1 Sem. — ¼ Fine Arts/¼ PE/Elective Credit

Prerequisites: Member of band. Placement by teacher recommendation/audition

Marching Band is an ensemble which performs extensively at sporting events, parades, concerts and competitions. This course requires an extensive time commitment outside of regular school hours. Uniforms or special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required. NOTE: This course may count in lieu of P. E. requirement. NOTE: Hands only CPR will be taught to fulfill Arizona State Statute requirements.**

MU 82 Band/Percussion

1 or 2 Sem. — ½ or 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

MU 82 is a performance-oriented class which covers the fundamentals of percussion performance from reading rhythms and notes, to the various techniques involved in playing timpani, bass drum, snare drum and keyboard instruments. Students in this class will perform the percussion parts needed for Marching Band, Concert Band and Orchestra. These performances may be at times other than during the school day. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 83 Varsity Band

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

Varsity Band is a performance ensemble for the developing band student. Students will demonstrate higher level instrumental techniques and study a wide range of musical styles and forms. This ensemble will prepare and perform concerts each semester, some of which may be other than during school hours. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

VERIFY OFFERINGS AT SCHOOL SITE

MUSIC/PERFORMING ARTS

MU 84 Symphonic Band

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

Symphonic Band provides opportunities for the skilled band student to play a wide range of musical forms and styles. Emphasis is placed on improving individual reading and performance skills. This ensemble will prepare and perform concerts each semester, some of which may be other than during school hours. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 85 Honors Band

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

Honors Band is an advanced performance ensemble for the serious band student. Advanced instrumental techniques, including a wide range of musical styles and forms will be studied. This ensemble will prepare and perform concerts each semester, some of which may be other than during school hours. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 87 Introduction to Mariachi Violin

1 Sem. — ½ Fine Arts Credit

MU87 introduces a student with no experience to playing the violin, with the focus being on mariachi techniques. This course, designed for beginners, will cover note reading, rhythm reading, and basic violin skills. Public performance is a possibility.

MU 88 Introduction to Mariachi Trumpet

1 Sem. — ½ Fine Arts Credit

MU88 introduces a student with no experience to playing the trumpet, with the focus being on mariachi techniques. This course, designed for beginners, will cover note reading, rhythm reading, and basic trumpet skills. Public performance is a possibility.

MU 89 Introduction to Mariachi Harmonia

1 Sem. — ½ Fine Arts Credit

MU89 introduces a student with no experience to playing the guitar, vihuela, or guitarron, with the focus being on mariachi techniques. This course, designed for beginners, will cover note reading, chords, rhythm reading, and basic harmonia skills. Public performance is a possibility.

MU 86 Jazz Band

1 or 2 Sem. — ½ or 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

Jazz Band is a performance-oriented class which provides opportunities for the study of improvisation and music in jazz styles. This ensemble will prepare and perform concerts each semester, some of which may be other than during school hours. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 90 Concert Orchestra

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

MU 90 is an ensemble for the development of advanced string techniques. A variety of musical styles will be studied and performed throughout the year. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 91 Full Concert Orchestra

1 Sem. — ½ Fine Arts/Elective Credit

Prerequisites: Audition/concurrent enrollment in Concert Orchestra or Band
MU 91 provides an opportunity for students who play a string, wind or percussion instrument to perform symphonic literature. A wide range of musical forms and styles are played throughout the year. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

VERIFY OFFERINGS AT SCHOOL SITE

MUSIC/PERFORMING ARTS

MU 92 Symphony Orchestra

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

MU 92 provides an opportunity for the highly skilled string orchestra student to perform with an advanced musical organization. A wide range of musical forms and styles are played throughout the year. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 93 Full Symphony Orchestra

2 Sem. — ¼ Fine Arts/Elective Credit

Prerequisites: Audition/concurrent enrollment in Orchestra or Band

MU 93 provides an opportunity for students who play a string, wind or percussion instrument to perform symphonic literature. A wide range of musical forms and styles are played throughout the year. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 94 Chamber Orchestra

1 or 2 Sem. — ½ or 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

MU 94 is a string orchestra, limited by instrumentation and size typical of a chamber orchestra, which provides the advanced student an opportunity to perform standard string repertoire. Emphasis is on developing musicianship and advanced technique/skills. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 95 String Ensemble

1 Sem. — ½ Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

MU 95 provides students with opportunities for solo playing and small ensemble participation. A wide range of musical forms and styles are studied throughout the year. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 96 Symphonic Pops Orchestra

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

MU 96 provides an opportunity for students to perform popular and light classical literature for orchestra. Special concert attire may be worn. Placement is by teacher recommendation/audition. **NOTE: Course fee required.**

MU 97 IB Music Perspectives Standard Level

Grades 11-12

2 Sem. — 1 Fine Arts Credit

This course explores the diversity of music throughout the world through a survey of Western Music from the Middle Ages to the present. Studies of other musical genres include some non-Western musical traditions to prepare students to take the Standard Level (SLS, SLG) International Baccalaureate Music Exam. Candidates have two compulsory parts for Standard Level IB: SLS, Solo Performance option or SLG, Group Performance option and Musical Perception and Analysis (containing a study of an IB Prescribed Work, study of Musical Genres and Styles and a Musical Investigation). This is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

PA 75 Video Journalism

1 or 2 Sem. — ½ or 1 Fine Arts/Elective Credit

This unique class is designed for students who would like to participate in the video production of daily announcements, special feature productions, and informational reporting. Students will learn technical aspects, gain performance skills, and study the process of communicating through the television medium. May require audition.

VERIFY OFFERINGS AT SCHOOL SITE

MUSIC/PERFORMING ARTS

PA 76 Beginning Acting

1 or 2 Sem. — ½ or 1 Fine Arts/Elective Credit

Designed to teach students the basic steps in building a character. Teaches students to overcome inhibitions involved in performing in front of others. Improvisation and short acting scenes help students realize a believable character.

PA 86 Intermediate Acting

1 or 2 Sem. — ½ or 1 Fine Arts/Elective Credit

Prerequisites: Teacher recommendation/audition

Provides an opportunity for all interested theatre students to advance their understanding of theatre and performance. Students will be introduced to more advanced acting techniques and styles and be allowed to further advance their directing and technical skills.

PA 89 Stagecraft

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: Theatrical Arts I, which may be taken concurrently with Stagecraft, and teacher approval.

Designed to introduce and acquaint students with technical aspects of the theatre including lighting, sound, scenic design and construction. Course members will constitute the auditorium stage crew. Late afternoon and night work involved. WHS - Stage crew will be selected from the stagecraft class by the instructor.

PA 90 Theatrical Arts I

1 Sem. — ½ Fine Arts/Elective Credit

(May be taken concurrently with Stagecraft.) Introductory course to the theatre. Through pantomime, improvisation and short scenes, students gain an understanding of how to create believable characters and expressive bodies in productions.

PA 91 Theatrical Arts II**Prerequisites:** PA 90

1 Sem. — ½ Fine Arts Credit

Through the study of scenes from plays, students are trained in all aspects of theatrical presentation. Participants act, direct, design set, do make-up, design costumes and may present public performances.

PA 92 Advanced Acting

1 or 2 Sem. — ½ or 1 Fine Arts Credit

Prerequisites: Teacher recommendation/audition

For advanced acting students who are interested in learning the techniques of auditioning and analyzing characters in depth. Through improvisations and acting scenes, each student will learn how to create the role desired in a production. In addition, much time will be spent on what constitutes complete characterization. Rehearsals and performances after school hours may be required.

MU 99 Independent Study**PA 99 Independent Study****Frequently Asked Questions About Music/Performing Arts**

CAN MUSIC CLASSES BE REPEATED FOR ELECTIVE CREDIT? **Yes. Certain classes may be taken more than once. Ask the instructor.**

HOW CAN STUDENTS JOIN SPECIAL ENSEMBLES? **By audition with the instructor.**

CAN STUDENTS TAKE MORE THAN ONE MUSIC COURSE AT THE SAME TIME? **Yes**

VERIFY OFFERINGS AT SCHOOL SITE

PHYSICAL EDUCATION

Two semesters are required for graduation. All P.E. courses may be repeated for credit. Hands only CPR will be taught in each Physical Education class to fulfill Arizona State Statute requirements.

SUBJECT AREA GOAL:

The student will develop the knowledge and skills necessary for maintaining good health, maintaining an optimum level of physical fitness and participating in recreational and competitive physical activities.

ESSENTIAL SKILLS:

The student will:

- Perform recreational and competitive physical activities according to the student's ability level, which will help to maintain a healthy state of physical fitness
- Demonstrate emergency first aid skills

PE 35 Co-Ed Recreational Education

1 or 2 Sem. — ½ or 1 PE/Elective Credit

A co-educational course planned for students with high interest in leisure time activities. Includes activities with carry-over benefit for adult living, such as tennis, volleyball, badminton, ping pong, etc. Appropriate dress is required for each activity.

PE 37 Recreational Basketball

1 Sem. — ½ PE/Elective Credit

For students who are not involved in interscholastic high school basketball. Includes these basketball activities: team play, offense and defense fundamentals, drill and games, and officiating.

PE 38 Modified Physical Education

1 or 2 Sem. — ½ or 1 PE/Elective Credit

Prerequisite: See Individual Education Plan

For students who cannot participate in a regular P.E. program because of physical limitations or medical reasons. Individualized programs are designed, by the instructor and the student, to conform to the students' abilities and medical advice. Some group activities are arranged.

PE 39 Life Sports Recreation

1 Sem. — ½ PE/Elective Credit

An indoor recreation class that includes these activities: indoor lacrosse, volleyball, badminton, table tennis, team handball and in-line skating. The health-related physical fitness test is administered twice each semester.

PE 40 Advanced P.E.

1 or 2 Sem. — ½ or 1 PE/Elective Credit

Prerequisites: "A" or "B" in any other P.E. class

Includes a wide variety of activities at a higher level of skill. Activities include individual and team sports selected by the class, conditioning, and lifetime fitness activities. The health-related physical fitness test is administered twice each semester.

PE 41 Cheerleading**PE 42 Pom Pom****PE 43 Spirit Line**

Prerequisites: Audition

1 or 2 Sem. — ½ or 1 PE/Elective Credit

PE 45 IB Middle Years PE

Grade: 9-10

1 Sem. — ½ PE/Elective Credit

This class is designed for students to become better informed about health issues and develop a sense of responsibility for their own well-being through participation in a wide variety of physical activities. The class will focus on three fundamental concepts; holistic learning, intercultural awareness, and communication. Students will learn to identify their learning styles and its relevance to real-life experiences. Through a variety of multicultural activities, students will develop open-mindedness and greater cultural awareness. Throughout this class, emphasis will be placed on developing the characteristics of respect, balance, honesty, courage, and insightfulness.

VERIFY OFFERINGS AT SCHOOL SITE

PHYSICAL EDUCATION

PE 47 P.E. Activities

1 or 2 Sem. — ½ or 1 PE/Elective Credit

Includes a wide variety of activities for various interest levels. Activities include: team sports, individual sports, aerobic activity which are all designed to promote and increase lifetime physical fitness.

PE 48 Unified PE

This course will provide opportunities for students with mental or physical disabilities to be partnered with general education students in a daily physical education class. This co-ed class matches boys and girls across grade levels to benefit all students involved

PE 50 AA Interscholastic Athletics (Sports)

1 or 2 Sem. — ½ or 1 PE/Elective Credit

Prerequisites: Approval of Head Coach

An interscholastic sports program available for those students with a higher skill level and a greater desire for competitive activity.

PE 52 Advanced Fitness

Prerequisites: "A" or "B" in PE 53

1 Sem. — ½ PE/Elective Credit

Advanced Fitness includes a combination of advanced aerobic activities and weight training. A combination of aerobic circuit training, running, jump roping, and an intensified and structured weight training program with emphasis on strength and flexibility.

PE 53 Complete Fitness/Aerobics

1 or 2 Sem. — ½ or 1 PE/Elective Credit

Alternating days of aerobics activities and weight training. Aerobics is designed to strengthen the cardiovascular system, tone specific areas of the body and train students in the knowledge and skills of aerobics. The weight training section involves a combination of circuit training, body sculpting, lifting weights.

PE 55 Aerobics

1 Sem. — ½ PE/Elective Credit

Aerobics is a continuous complex, physical fitness program whose primary goal is to strengthen the cardiovascular system. There is also an emphasis on muscular strength/endurance and increasing flexibility. Students may participate in step, kick-boxing, circuit training, running and resistance equipment. All students who want to improve overall health are encouraged to enroll.

PE 56 Racquet Sports

Prerequisites: Some experience

1 or 2 Sem. — ½ or 1 PE/Elective Credit

The racquet sports class is a co-educational course planned for students with a high level of interest and skill in racquet sports. Course offerings include tournament activity and skill training in racquetball, tennis and badminton.

PE 57 Advanced Aerobics

Prerequisites: PE 55

1 Sem. — ½ PE/Elective Credit

Advanced Aerobics is an advancement of the PE 55 curriculum and is geared toward students with an athletically sound mind and body. This is a very physically active class.

PE 58 Team Sports

Prerequisites: Some experience

1 Sem. — ½ PE/Elective Credit

The team sports class is a course planned for students with a high level of interest and skill in team sports. Course offerings include softball, volleyball, soccer, flag football, and basketball. The health-related physical fitness test is administered twice each semester. This is not AIA competitive.

VERIFY OFFERINGS AT SCHOOL SITE

PHYSICAL EDUCATION

PE60 Walking to Jogging a 5K**1 Sem. — ½ PE/Elective Credit**

The class will help encourage students to get in the habit of regular exercise, both during the school day and outside of class, and will set a foundation so one can become a runner. The class will begin with walking and will gradually build so that by the end of the semester students will be able to jog a 5K (3.1 miles). The class will be available for students of all abilities and levels. The class will be process oriented and not outcome based. The class will involve walking/running on a daily basis and will include lessons on planning, pacing, tracking, running economy (running form), and vocabulary. Students will also be expected to track and document the amount of work and running/walking that they do each day on a tracking sheet that will include date, distance, and average pace. The class will culminate in an on campus walking/jogging/running 5k race at the end of the semester complete with water stations and an overall finish time.

PE 70 Beginning Dance**1 Sem. — ½ PE, Fine Arts or Elective Credit**

An introduction to fundamental dance techniques styles of jazz, contemporary, lyrical, ballet, and some schools may include hip hop. Included is an emphasis on proper alignment, core strength, and stretching to increase flexibility. Dance production, basic anatomy, vocabulary and dance history are also introduced. Students will have an opportunity to participate in a dance performance.

PE 71 Intermediate Dance**1 Sem. — ½ PE/Fine Arts/Elective Credit****Prerequisites: Teacher approval/audition**

Includes intermediate technique in ballet, modern and jazz. Choreography and dance production included. Dance compositions may be required. Performance in a dance concert and/or production work is recommended and may be required at some schools.

PE 72 Advanced Dance**1 or 2 Sem. — ½ or 1 PE/Fine Arts/Elective Credit****Prerequisites: PE 70 or 71 recommended/audition**

This dance course develops more sophisticated dance styles of jazz, contemporary, lyrical, and ballet. Some schools may include hip hop as well. Included is an emphasis on proper alignment, stretching to increase flexibility, core strength, basic anatomy, vocabulary, choreography and dance history. Students will learn dance production and have an opportunity to participate in a dance performance. Advanced dance student can audition to perform in additional dance pieces. Dance compositions may be required.

PE 74 Hip Hop Dance Fusion**1 Sem. — ½ PE/Fine Arts/Elective Credit**

An introduction to basic hip hop style dancing. Each semester provides instruction in basic anatomy, as well as History. Students will also have the opportunity to develop choreography skills.

PE 75 Dance Composition and Performance**Prerequisites: Audition 1 or 2 Sem. — ½ or 1 PE/Fine Arts/Elective Credit**

Will explore the more advanced dance techniques. More sophisticated composition will be created and students will be required to perform in concerts as determined by the school.

PE 76 Weight Training**1 Sem. — ½ PE/Elective Credit**

Weight training and conditioning for the student or athlete desiring an intensified and structured weight training program with emphasis on various exercises accentuating strength and flexibility. Approved general physical education activities may also be included.

VERIFY OFFERINGS AT SCHOOL SITE

PHYSICAL EDUCATION

PE 78 Advanced Weight Training**Prerequisites: "A" or "B" in PE 76****1 Sem. — ½ PE/Elective Credit**

Advanced weight training and conditioning for the student or athlete desiring an intensified and structured weight training program with emphasis on various exercises accentuating strength and flexibility. Approved general physical education activities may also be included.

PE 79 The Ultimate Challenge**1 Sem. — ½ PE/Elective Credit**

This course is designed for the student who is challenged with personal weight issues and is seeking a weight management program. The program includes an overview of healthy lifestyle choices, including the importance of balanced nutrition and regular physical activity, and exploration of readiness to change behavior. A textbook and written materials accompany this course.

PE 81 The Ultimate Challenge II**Prerequisites: PE 79****1 Sem. — ½ PE/Elective Credit**

This course is designed for the student who has completed The Ultimate Challenge class and is seeking a maintenance program. The program will involve regular physical activity complimented by personal counseling sessions, as well as the continued study of healthy lifestyle choices, nutrition, and personal self worth.

PE 82 Stretch & Strength**2 Sem. — 1 PE/Elective Credit**

This course is designed to augment dance and athletic training by increasing flexibility and core strength while focusing on a physical and mental balance. Pilates, yoga and activities are also beneficial to non-dance and athletic students.

PE 83 Pilates Mat**1 Sem. — ½ PE/Elective Credit**

This course is an exercise program for students that desire increased flexibility, range of motion and strength. Pilates focuses on the muscles in the abdomen, back and hips. Basic anatomy and physiology will be included in the curriculum.

PE 87 Wellness and Nutrition**1 or 2 Sem. — ½ or 1 PE/Elective Credit**

The student will learn about mental, physical and social wellness. Wellness describes a lifestyle in which the physical, social, intellectual, psychological and environmental components of health are integrated.

HE 91 Prevention and Care of Sports InjuriesSee **SPORTS MEDICINE & REHAB** subsection under **CAREER AND TECHNICAL EDUCATION****HE 92 Sports Medicine**See **SPORTS MEDICINE & REHAB** subsection under **CAREER AND TECHNICAL EDUCATION****PE98 Outside School Activity****1 or 2 Sem. — ½ or 1 PE/Elective Credit**

This course is designed for students who are participating in sports or athletic activities outside of the typical school-sponsored athletic program and/or school sports. Each student must complete 60 hours of participation hours in the sport/activity. The course also includes assignments and documentation that must be completed. Noncompetitive sports, non-organized sports/activities such as pick-up games, or gym memberships do not meet the requirements for course completion. Personal daily exercise does not meet this course's requirements.

PE 99 Independent Study

VERIFY OFFERINGS AT SCHOOL SITE

PHYSICAL EDUCATION

Frequently Asked Questions About Physical Education

HOW DO STUDENTS GET INTO JUNIOR VARSITY AND VARSITY SPORTS? **Students interested in junior varsity and varsity sports are encouraged to contact the athletic department at their school for sport specific information.**

CAN PE CLASSES BE REPEATED FOR ELECTIVE CREDIT? **Yes.**

DO DANCE CLASSES COUNT AS EITHER FINE ARTS OR PHYSICAL EDUCATION CREDIT? **Yes.**

CAN ANY P.E. COURSE SATISFY GRADUATION REQUIREMENTS? **Yes.**

HOW DO STUDENTS GET PLACED IN LEVELS FOR DANCE? **Students will be automatically placed into beginning dance (PE 70) unless given Instructor Approval or through the audition process. Intermediate, Advanced, and Dance Composition classes are by audition only.**

NOTE: Many Physical Education classes administer a physical fitness test at the beginning and end of the course.

READING

SUBJECT AREA GOAL

The student will become proficient in Arizona's standards for English Language Arts.

STATE ENGLISH LANGUAGE ARTS STANDARDS

The student will be able to apply the standards within the following strands:

- Reading Strand: Informational and Literary Texts
- Writing Strand
- Language
- Speaking and Listening

NOTE: Students are assigned to appropriate level reading courses based on assessment.

RD51 Reading I

RD52 Reading II

RD53 Reading III

RD54 Reading IV

RD55 Reading V

RD56 Reading VI

2 Sem. — 1 Elective Credit

These courses are designed to meet the literacy needs of the students who require additional support in reading. The classes will focus on improving the student's literacy skills addressing the essential components of Reading: Phonemic Awareness, Phonics, Vocabulary, Comprehension, and Fluency. Assessment is required prior to placement in these classes. If these courses are taken in the high school, students will receive an elective credit. Students will be placed at the appropriate course level based on need. RD 51S, RD 52S, RD 53S, RD 54S, RD 55S, RD 56S: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student.

RD 99 Independent Study

Frequently Asked Questions About Reading

DOES READING COUNT FOR ENGLISH CREDIT? **No. Reading courses count for elective credit only, English credit is given only for those courses that have an 'EN' prefix.**

VERIFY OFFERINGS AT SCHOOL SITE

SCIENCE

The Arizona State Board of Education requires that a Science AIMS test is to be administered to 8th grade students and at the end of a high school Biology course (9th or 10th grade).

*Note: Courses that will meet the entrance/core competency requirements for Arizona universities are marked with an asterisk.**

SUBJECT AREA GOAL:

The student will demonstrate an understanding of scientific methods of inquiry and apply them to the study of various branches of science, as well as to life situations.

ESSENTIAL SKILLS:

The student will:

- Solve simple, everyday problems using a variety of methods
- Interpret, synthesize, and apply information provided by data tables, charts and graphs
- Set up and carry out biological, Earth science, chemistry or physics experiments
- Relate an aspect of the science studied in terms of practical implications for everyday life

*SC 22 Physical Science

2 Sem. — 1 Physical Science Credit

Examination of essential physical science concepts, focusing on their applications in the areas of mechanics, electricity, heat, sound, light, matter, Earth, space, and energy. The science and engineering practices are integrated to emphasize an inquiry approach to learning. This course is considered an integrated science course in meeting the General Arizona University Entrance Requirements.

*SC 23 Honors Physical Science

Prerequisite: Algebra I

2 Sem. — 1 Physical Science Credit

This course is designed as an in-depth study of the principles of physical science concepts, focusing on their applications in the areas of mechanics, electricity, heat, sound, light, matter, Earth, space and energy. The science and engineering practices are integrated to emphasize an inquiry approach to learning. This course is considered an integrated science course in meeting the General Arizona University Entrance Requirements and in preparation for AP science courses. **NOTE: This is a weighted course.**

SC 30 Forensic Science

Prerequisite: Biology and Chemistry

2 Sem. — 1 Physical Science Credit

Forensic Science focuses on the skills and concepts behind physical aspects of crime scene investigation and forensic science. Whether students desire to be a crime scene investigator, forensic pathologist, or some other medical scientist, this course will help them hone their investigative skills and review a wide range of science concepts. Students will review physics, chemistry, anatomy, cell biology, environmental science, and computer science in the process of learning about forensic science.

*SC 33 Earth and Space Science

2 Sem. — 1 Physical Science Credit

Earth and Space Science is a lab course which explores forces and processes that operate in the universe. Major areas of study will include astronomy, geology, hydrology, meteorology, and environmental issues.

VERIFY OFFERINGS AT SCHOOL SITE

SCIENCE

***SC 34 IB MYP Biology**

Grade Level: 9 2 Sem. — 1 Biological Science Credit
Prerequisite: See page 9 *

An academically rigorous course of study designed to develop scientifically literate and inquisitive students. MYP biology fosters students' critical thinking and discovery of the interdependence of science and all major facets of society. Students will participate in research and design to solve problems using creative thinking in this inquiry based course. Major topics of study include biochemistry, ecology, cells, DNA and heredity, reproduction, genetics, evolution, biotechnology, and sustainability. The course engages students as they explore biological concepts through laboratory experiments, scientific literature and interactive online simulations. Students leave MYP Biology fully prepared for advanced studies in science. **NOTE: This course may include dissection, biotechnology concepts and research techniques. NOTE: This is a weighted course.**

***SC 35 IB Biology Standard Level**

Prerequisites: SC49, SC71, or SC72 2 Sem. — 1 Biological Science Credit

This pre-university course is designed to allow students to obtain a working knowledge of facts and an increased understanding of biology. Students will be introduced to the manner in which scientists work and communicate with each other by performing laboratory experiments, using the scientific method, and writing laboratory reports. Students will spend approximately 25% of the course performing laboratory experiments and research. This course is part of the IB Diploma Programme. **Note: This is a weighted course.**

SC 39 GIS Geospatial Information Systems

Grade: 11 or 12 2 Sem. — 1 Additional Science/Elective Credit

Prerequisites: Concurrent or previous enrollment in a higher level science class such as AP Environmental Science or AP Physics; Instructor approval without prerequisites

This course will provide a practical, hands-on approach to spatial database design and spatial data analysis with Geographical Information Systems (GIS) as applied to the natural sciences. Students will use digital tools and created maps to answer scientific questions. Students will participate in a community-based project in the second semester that will be part of their overall grade. **NOTE: This is a weighted course.**

***SC 45 Honors Biology**

2 Sem. — 1 Biological Science Credit

Prerequisites: SC 20, MA 30 (taken concurrently)

This course is designed as an in-depth study of the principles of the living world. Coursework will provide students with an understanding of the complexity, diversity, and interconnectedness of life on earth. Students will explore cellular and molecular biology, genetics and genetic technology, evolution, and ecosystems in a manner that develops higher-level thinking skills while providing real-world applications. Students are expected to engage in extensive lab work including an independent research project for presentation in the school science fair. This course includes the topic of human reproduction and may include dissections and biotechnology concepts. **NOTE: This is a weighted course.**

***SC 46 AP Biology**

2 Sem. — 1 Biological Science/Elective Credit

Prerequisites: SC 49 and SC 71 or SC 81

A very rigorous lab-oriented course which will cover the major topics covered in a freshman college-level course. The class has a high level of difficulty and the student should be prepared to put a considerable amount of time into the course. This course includes topics of human reproduction and evolution. This course may include dissection. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course. Course fee required.**

VERIFY OFFERINGS AT SCHOOL SITE

SCIENCE

***SC 48 Biotechnology Concepts and Techniques/ Biotech I**

See BIOTECHNOLOGY subsection under CAREER AND TECHNICAL EDUCATION

***SC 49 Biology**

2 Sem. — 1 Biological Science Credit

This course of study is designed to cover major areas of cell structure, function and processes, genetics, classification, and ecology. This course includes the topics of human reproduction and evolution. **NOTE: This course may include dissection, biotechnology concepts and research techniques.**

***SC 50 Environmental Science**

2 Sem. — 1 Physical Science Credit

This course offers a comprehensive overview of environmental issues. The emphasis will be on: population studies, natural resources, pollution, and current environmental topics.

***SC 52 AP Environmental Science**

Grades 11-12 2 Sem. — 1 Physical Science Credit

Prerequisites: one year of life science and one year of physical science

The goal is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and man-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course.**

***SC 54 Advanced Biotechnology**

See BIOTECHNOLOGY subsection under CAREER AND TECHNICAL EDUCATION

***SC 55 Human Anatomy and Physiology**

Prerequisites: 1 year Biology 2 Sem. — 1 Additional Science Credit

A rigorous lab-oriented course providing students a better understanding of how their bodies work. Topics include an in-depth exploration of the organ systems and mechanism for maintaining homeostasis. Students will receive exposure to health career opportunities. **NOTE: This course can involve the detailed study of the human reproductive system and may include dissection. This course could be taken for dual credit. Verify course specifics at the school site.**

SC 58 Pre-AP Biology

2 Sem. — 1 Biological Science Credit

This course focuses on foundational biology knowledge and skills while emphasizing reasoning and analytical skills. Unit of study includes cellular systems, genetics, ecological systems, and evolution. Students will engage in skill development and knowledge acquisition for active and confident participation in subsequent high school courses.

SC 59 Pre-AP Honors Biology

2 Sem. — 1 Biological Science Credit

This accelerated course is designed as an in-depth study of the living world while emphasizing the complexity, diversity, and interconnectedness of life on earth. Units of study include cellular systems, genetics, ecological systems, and evolution. Students will engage in skill development and knowledge acquisition for active and confident participation in subsequent high school courses, including Advanced Placement. **NOTE: This is a weighted course.**

***SC 71 Chemistry**

Prerequisites: MA 27 2 Sem. — 1 Physical Science Credit

This course includes the study of the atom, atomic energy, the formation of molecules, the mathematics of chemistry, and related experimental work. The vocabulary of the chemist is emphasized as are correct laboratory procedures and techniques.

VERIFY OFFERINGS AT SCHOOL SITE

SCIENCE

***SC 72 Honors Chemistry**

2 Sem. — 1 Physical Science Credit

Prerequisites: MA 27 with "B" or better, MA 30

A course in which the unifying principles of chemistry are developed from experimentation. Emphasis upon understanding of principles rather than memorization of facts and descriptions. Extensive use is made of arithmetic, elementary algebra and geometry. **NOTE: This is a weighted course.**

SC 73 & SC 74 IB Chemistry Higher Level I & II**Prerequisites:** SC 49, SC 72, MA 30, MA 40 4 Sem. — 2 Physical Science Credits

This is a comprehensive two-year course designed to build upon the foundations learned in honors chemistry. The course will help students to analyze and interpret data along with building experimental techniques and in the design of experiments. Topics include stoichiometry, atomic theory, periodicity, bonding and structure, thermochemistry, kinetics, equilibrium, acid/base chemistry, redox reactions, organic chemistry, and measurement and data processing. Higher level chemistry require 60 hours additional time in the above topics along with 25 hours in one of the following additional topics; materials, biochemistry, energy, or medicinal chemistry. The course involves the keeping of a data booklet along with 60 hours of laboratory time to include 10 hours for individual investigation (IA) and 10 hours for group 4 project. These courses are a part of the IB Diploma Program. **NOTE: This is a weighted course.**

***SC 75 Ecology of Marine Ecosystems**

2 Sem. — 1 Additional Science Credit

Prerequisites: SC 49 Biology and SC 71 Chemistry (or higher)

A one year survey of marine ecosystems and environmental problems with an emphasis on computer-based, hands-on laboratory investigations. The class has a high level of difficulty and the students should be prepared to put forth a considerable amount of time into the course.

***SC 77 AP Chemistry**

2 Sem. — 1 Physical Science Credit

Prerequisites: 1 yr Chemistry & Algebra

A very rigorous lab-oriented course which covers the major topics presented in a freshman college-level course. A second year course in chemistry intended for those students who are interested in a career in the sciences. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course.**

***SC 79 AP Physics I**

2 Sem. — 1 Physical Science/Elective Credit

Prerequisites: MA 40 Algebra II (may be taken concurrently)

A very rigorous, fast-paced course patterned after the first semester General Physics courses at ASU and the Maricopa Community Colleges. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course.**

***SC 80 AP Physics II**

2 Sem. — 1 Physical Science/Elective Credit

Prerequisite: SC 79 AP Physics I & co-enrollment in MA 45 Precalculus or above

A very rigorous, fast-paced course patterned after the second semester General Physics courses at ASU and the Maricopa Community Colleges. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

SCIENCE

***SC 81 Physics**

2 Sem. — 1 Physical Science Credit

Prerequisites: Algebra, with Geometry recom.

A laboratory course designed to explore the fields of mechanics, heat, light, sound, electricity, magnetism and nuclear energy. Emphasis is placed on the practical application of the principles involved in the above fields.

***SC 90 AP Physics C**

2 Sem. — 1 Physical Science Credit

Prerequisites: 1 yr. Science & 1 yr. Calculus

A very rigorous course patterned after the university physics course offered at ASU. Emphasis will be in the fields of Mechanics and Electromagnetism while looking at both the algebra and calculus description. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course.**

***SC 91 IB Environmental Systems & Societies Standard Level**

Grade: 11 or 12

2 Sem. — 1 Integrated Science Credit

Prerequisite: SC 49, SC 71 or SC 72, MA 40

The prime intent of this course is to provide students with a coherent perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. Students will be evaluating the scientific, ethical and socio-political aspects of issues that are both natural and man-made. At the end of the year, students will be required to take the IB Standard Level Environmental Systems exam. **NOTE: This is a weighted course.**

SC 92 Scientific Research Methods

See BIOTECHNOLOGY subsection under CAREER AND TECHNICAL EDUCATION

***SC 93 & SC 94 IB Biology Higher Level I & II**

Grades: 11-12

4 Sem. — 2 Biological Science Credit

Prerequisites: SC 49 & SC 71 or SC 72

This is a comprehensive two-year pre-university course that is designed to allow students to obtain a secure knowledge of a limited body of facts and at the same time, a broad understanding of biology. Students will be introduced to the way scientists work and communicate with each other by performing laboratory experiments, using the scientific method, and writing laboratory reports. Students will spend approximately 60 hours or 25% of the class performing these laboratory experiments. These courses are part of the IB Diploma Programme. **NOTE: These are weighted courses.**

***SC 95 IB Chemistry Standard Level**

Grades: 11-12

2 Sem. — 1 Physical Science Credit

Prerequisites: SC 49, SC 72, MA 30, MA 40 (May be taken concurrently)

This course is designed to expand on the knowledge and experimental skills obtained in CP Chemistry and to prepare the student for further study of pure and applied sciences in higher education. It will also help the student to develop the ability to analyze scientific literature critically and to develop manipulative and experimental skills necessary to perform college level scientific investigations. Topics include stoichiometry, atomic theory, periodicity, bonding, states of matter, energetics, kinetics, equilibrium, acids and bases oxidation and reduction, and organic 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. The SL curriculum requires a student to spend 40 hours of laboratory investigation time of which 15 hours is devoted to the interdisciplinary group project. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

SCIENCE

***SC 96 & SC 97 IB Physics Higher Level I & II**

Grades 11-12 4 Sem. — 2 Physical Science Credit
Prerequisites: SC 49, SC 71 or SC 72, MA 41

IB Physics is designed to introduce students to the laws of physics, the experimental skills required in physics, and the social and historical aspects of physics as an evolving body of human knowledge about nature. Emphasis is placed on experimental design and analysis in order to produce a practical working model of the physical situation. Students will make extensive use of technology to process and communicate information. Mathematical competence in algebra, geometry, and trigonometry is crucial as a prerequisite to IB Physics. Core topics include: measurement; mechanics; thermal physics and properties of matter; waves; electricity and magnetism; and atomic and nuclear physics. Optional topics include: mechanics extension; atomic and nuclear physics extension; energy extension; biomedical physics; historical physics; astrophysics; special and general relativity; or optics. These courses are part of the IB Diploma Programme. **NOTE: These are weighted courses.**

***HE 72 Medical Interventions**

See **BIOMEDICAL SCIENCES** subsection under **CAREER AND TECHNICAL EDUCATION**

***AG 30 Applied Biological Systems**

See **AGRICULTURAL SCIENCE: ANIMAL SYSTEMS** subsection under **CAREER AND TECHNICAL EDUCATION**

***AG 31 Animal Science**

See **AGRICULTURAL SCIENCE: ANIMAL SYSTEMS** subsection under **CAREER AND TECHNICAL EDUCATION**

AG 35 Veterinary Science

See **AGRICULTURAL SCIENCE: ANIMAL SYSTEMS** subsection under **CAREER AND TECHNICAL EDUCATION**

***AG 51 Plant Science**

See **AGRICULTURAL SCIENCE: ANIMAL SYSTEMS** subsection under **CAREER AND TECHNICAL EDUCATION**

SC 99 Independent Study**Frequently Asked Questions About Science**

HOW MUCH MATH IS NEEDED FOR PHYSICS? **A strong background in algebra and geometry is recommended.**

WHAT SCIENCE IS NEEDED FOR COLLEGE? **Arizona colleges and universities require three years, to be taken from SC 09 Essential Elements of Sciences, Biology, Biotechnology, Chemistry, Earth Science, Anatomy and Physiology, Environmental Science or Physics. Students should check this in the student advisement office or in the college catalog of the university they plan to attend. A student's choice of major does affect entrance requirements.**

IF STUDENTS FAILED ONE SEMESTER OF A YEAR-LONG COURSE, DO THEY HAVE TO TAKE THE WHOLE YEAR OVER? **No, they must repeat only the semester failed, or take a year of another science.**

VERIFY OFFERINGS AT SCHOOL SITE

SOCIAL STUDIES

Note: Courses that will meet the core competency requirements for Arizona universities are marked with an asterisk.

SUBJECT AREA GOAL:

The student will develop the ability to make informed and reasoned decisions for the public good as citizens of a culturally diverse, democratic society in an interdependent world.

ESSENTIAL SKILLS:

The student will be able to:

- Use and evaluate primary and secondary sources of information
- Describe the key achievements in the development of the United States and other nations
- Recognize the primary elements of capitalism
- Demonstrate the ability to make decisions for the public good as informed citizens

SS 05 Current Events

1 Sem. — ½ Elective Credit

Acquaints the student with the influences of current events presently taking place around the world. Includes newspaper, media presentations and debates as classroom resources. Because the content of this course is dependent upon current events, a wide variety of subjects might be covered.

***SS 22 World History/Geography**

2 Sem. — 1 Social Studies Credit

Through the process of inquiry, students will engage in a comprehensive study of world history through a balanced approach to both Eastern and Western Hemispheres. The course will begin with content beginning in the 15th century and move to current issues and events. Connections to geographic topics and concepts will be integrated throughout the course. **NOTE: This course meets the high school graduation requirement for World History.**

***SS 26 IB MYP World History/Geography**

Grade: 9 2 Sem. — 1 Social Studies Credit
Prerequisites: IB Middle Years Programme Student

A rigorous course that encourages students to respect and understand the world around them, and provides a skills base to facilitate further study. Students gain and develop knowledge and conceptual understanding as well as the skills of research, analysis, interpretation and communication, contributing to the development of the student as a whole. The curriculum traces the development of civilizations from early prehistoric people to the present and includes the teaching of geographic concepts. **NOTE: This course meets the high school graduation requirement for World History. NOTE: This is a weighted course.**

***SS 28 Honors World History/Geography**

2 Sem. — 1 Social Studies Credit

A rigorous course designed for advanced students who would like to combine writing skills with the study of World History and the humanities. This course uses an interrelated chronological approach, and prepares students for college prep courses. The curriculum traces the development of civilizations from early prehistoric people to the present and includes the teaching of geographic concepts. **NOTE: This course meets the high school graduation requirement for World History. NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

SOCIAL STUDIES

***SS 32 Honors American History & Literature**

2 Sem. — 1 Social Studies Credit

A unique two hour block course designed for advanced students who would like to combine writing skills with the study of American history and American literature. This course is team taught, uses an interrelated chronological approach, and prepares students for college prep courses. **NOTE: This is a weighted course. (Must be enrolled in EN 58 concurrently) NOTE: This course meets the following high school graduation requirements for American History.**

***SS 35 American History**

2 Sem. — 1 Social Studies Credit

Students will explore a variety of people, events, and movements in United States history with a focus on inquiry into the evolution of American democratic principles, changes in society, economic and geographical development, and the emergence of the US as a global power. A special emphasis will be placed on how Arizona's diverse cultures and individuals have contributed to our nation's history. Events studied will include those from the American Revolution through contemporary issues. **NOTE: This course meets the high school graduation requirement for American and Arizona History.**

***SS 36 IB MYP Honors American History**

Grade: 10

2 Sem. — 1 Social Studies Credit

Prerequisites: IB Coordinator Approval

This course is a prerequisite to the IB Diploma Programme courses. The course is designed to teach not only the historical record of the United States, but also a dynamic range in interpretations of American History. Students will receive instruction that goes beyond the facts to the meaning, impact, and influence of historical developments. Historiography will be an essential element of the course, as well as critical analysis of the past in order to draw inferences for the future. This course will cover the nation's evolution from the colonial period to modern times. The key concept to remember in this course is that history is very much alive and constantly evolving. **NOTE: This course meets the high school graduation requirement for American History. NOTE: This is a weighted course.**

***SS 39 AP United States History**

2 Sem. — 1 Social Studies Credit

This course is designed to replicate a college-level introductory United States History Survey Course. It will focus on preparing the students to critically analyze both primary and secondary sources, develop a thesis, and support it with concrete historical evidence and stress the understanding of key components contained in America's past. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This course meets graduation requirements for American/Arizona History. NOTE: This is a weighted course.**

SS 40 World War II Studies

1 Sem. — ½ Elective Credit

This course will cover the events of World War II and the social, political, and economic effects on nations involved. Emphasis will be placed on the events that drew the United States into the conflict, both theatres of war, and the war's impact.

SS 44 Native American Studies

Grade: 10 - 12

1 Sem. — ½ Elective Credit

This course begins with Pre-Columbian America, tracing the history of the Native Americans from colonial and revolutionary times, through 19th Century westward expansion up to present times. It investigates basic ideas and questions associated with the history of Native Americans, such as sovereignty, native knowledge systems, diversity, federalism, cultural transformation, and survival.

VERIFY OFFERINGS AT SCHOOL SITE

SOCIAL STUDIES

SS SS 45 Navajo Government

Grade: 11-12

1 Sem. — ½ Elective Credit

This course explores such topics as the Navajo Code, political processes, the impact of government in the community, the interrelationship of the three branches of government, the history of the Navajos and their contributions to society. The class will emphasize problem based learning and will require a great deal of reading, writing, speaking and citizenship. For students that are going on to university or college, this class will satisfy the requirements to apply for the Chief Manuelito Scholarship along with 2 years of Navajo language classes.

SS 48 Pre-AP World History and Geography

2 Sem — 1 Social Studies Credit

This course traces the development of civilization from the Paleolithic Era to the Contemporary Period. Through close observation and analysis, evidence-based writing, higher-order questioning, and meaningful academic conversations, students will investigate history and geography as a dynamic, interrelated world story. Students who engage in the Pre-AP World History and Geography curriculum develop academic and content skills foundation for participant in subsequent high school courses. **NOTE: This course meets the high school graduation requirement for World History and Geography.**

SS 49 AP United States Government and Politics**Prerequisite: 1 yr. American History**

1 Sem. — ½ Social Studies Credit

This course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This course meets the high school graduation requirements for Government. NOTE: This is a weighted course.**

***SS 50 AP World History**

2 Sem. — 1 Social Studies Credit

This course will provide the motivated student with a greater understanding of the evolution of global processes and contacts in different types of human societies through the study of world history. Students will trace the development of cultural, political, social, intellectual, and economic history through several chronological periods including: Ancient Greece and Rome, The Middle Ages, Renaissance, Industrial Revolution, World War I, World War II and the Cold War. Particular attention will be given to the development of college prep skills. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This course meets the graduation requirement for World History. NOTE: This is a weighted course.**

SS 51 American Government*Prerequisites: 1 year of American History** 1 Sem. — ½ Social Studies Credit

Through the use of inquiry, students will explore how to become active citizens. Knowledge of the history, principles, and foundations of our republic will be studied, including fundamentals of government on the national, state, and local levels. This includes but is not limited to the three branches of government, rights and responsibilities of American citizenship, and the development and of linkage institutions such as political parties, interest groups, and the media. **NOTE: This course meets the graduation requirement for Government.**

SS 52 AP United States Government and Politics*Prerequisites: 1 year American History**

2 Sem. — 1 Social Studies Credit

This course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This course meets the high school graduation requirements for Government and Economics. NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

SOCIAL STUDIES

***SS 55 AP United States Government and AP Macroeconomics**

Prerequisites: 1 year American History 2 Sem. – 1 Social Studies Credit
This course provides an analytical perspective on government and politics in the United States and a thorough understanding of the principles of economics that apply to the economic system as a whole. It involves the study of general concepts used to interpret U.S. politics, as well as, places particular emphasis on the study of national income, price-level determination and develops students' familiarity with economic performance measures, economic growth and international economics. Students will take the AP exam for Government and the AP exam for Macroeconomics in May. See your school counselor if you have a financial hardship. **NOTE: This course meets the high school graduation requirements for Government and Economics. NOTE: This is a weighted course.**

***SS 56 AP Comparative Government and Politics**

Prerequisite: Teacher approval 2 Sem. — 1 Elective Credit
This course will provide students the conceptual tools to develop an understanding of some of the world's diverse political structures and practices. The course will encompass the study of six specific countries and their governments as well as general concepts used to interpret the political relationships and institutions found in virtually all national politics. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course.**

***SS 57 Principles and Practices of Economics**

Prerequisite: 1 year of American History 1 Sem. — ½ Social Studies Credit
Through the use of inquiry, students will explore the economic reasoning process to make informed decisions in a wide variety of economic contexts. Knowledge about how people, institutions, and societies choose to use resources to meet their wants and needs will be studied. In addition, concepts incorporating financial literacy and personal finance will be examined, including budgeting, saving, spending, investing, credit, and banking. **NOTE: This course meets the high school graduation requirement for Economics.**

***SS 59 We the People**

Prerequisites: Teacher Recommendation 2 Sem. — 1 Social Studies Credit
This course will engage students in a program that develops a more profound understanding of, and appreciation for the fundamental principles and values of our free society. It focuses on the common core of civic values and concepts that are fundamental to the theory and practice of democratic citizenship in the United States. There is an expectation that students will engage in extracurricular competitions. **NOTE: This course meets the graduation requirement for Government and Economics. NOTE: This is a weighted course.**

SS 60 Defining America

Grade Level: 10 2 Sem. — 1 Elective Credit
In 1776, the United States was formed based on the premise that "all men are created equal." This course will analyze the path American History has taken in an effort to make that premise a reality. Students will participate in an in depth study of the three eras emphasizing primary sources as hands on activities.

SS 63 Holocaust Studies

1 Sem. — ½ Elective Credit
Holocaust Studies is a semester course designed to teach students why, how, what, when, and where the Holocaust took place, including the key historical trends/antecedents that led up to and culminated in the "final solution".

VERIFY OFFERINGS AT SCHOOL SITE

SOCIAL STUDIES

***SS 64 AP European History**

2 Sem. — 1 Elective Credit

The purpose of this course is to provide the student with a full academic year of advanced instruction in European history (1450-Present). Students trace the development in cultural, political, diplomatic, social, intellectual, and economic history through several chronological periods. Particular attention will be given to the development of college prep skills. Students will take the AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course.**

***SS 67 AP Human Geography**

2 Sem. — 1 Elective Credit

Introduces student to cultural geography through an examination of world, national and local regions with a focus on cultures, population trends and issues, patterns of rural and urban land use, growth and development of cities, and economic development issues. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course.**

SS 69 Criminology and the Law

1 Sem. — ½ Elective Credit

An overview of the nature of criminality including the legal and social remediation of criminal behavior. The emphasis will reflect the roles of the citizenry relative to crime in a democratic society.

SS 73 Criminology and The Law II**Prerequisite:** SS 69 Criminology and the Law I 1 Sem. — ½ Elective Credit

The course will include an introduction to criminal justice with an emphasis on law enforcement. Focus will be on police investigations, arrest, pre-trial procedures, while moving through the justice system. Careers in policing will be examined, including ethical considerations and standard protocols, and dilemmas facing law enforcement on a daily basis.

***SS 76 Psychology I**

1 Sem. — ½ Elective Credit

The purpose of Psychology I is to develop a curiosity about and appreciation of the extent to which scientific methods can be applied toward understanding human behavior. The course includes a basic introduction to what psychology is, its relationship to learning, personal and social adjustments of the brain and behavior, and behavioral disorders and treatments.

SS 77 Psychology II*Prerequisites:** SS 76

1 Sem. — ½ Elective Credit

The purpose of the Psychology II course is to expand upon basic concepts introduced in Psychology I and continue the exploration of human behavior in the areas of psychology, developing a healthy personality, human development and social psychology. Students will explore issues related to child and adolescent psychology, states of consciousness, the brain and behavior, psychology of aging, and stereotyping and prejudice.

***SS 78 Sociology**

1 Sem. — ½ Elective Credit

Offers materials essential to understanding ourselves and the complexities of today's society. Includes understanding basic social units, social institutions, social norms and social changes, each of which are relevant in our present society. The study of sociology requires that students and teachers alike study various aspects of society from a non-biased point of view.

VERIFY OFFERINGS AT SCHOOL SITE

SOCIAL STUDIES

***SS 79 AP Psychology**

2 Sem. — 1 Elective Credit

The purpose of the Advanced Placement Psychology course is to introduce students to the systematic and scientific study of the behavior and mental processes of humans 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 methods psychologists use in their scientific research and practice. Students should be prepared to complete work equivalent to what they would encounter in an introductory college course in psychology. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course.**

SS 80 Sports Psychology

Grade Level: 11-12

1 Sem. — ½ Elective

Prerequisites: Psychology I (SS 76) or higher; Instructor approval without prerequisites

This course deals with the study and application of psychological principles that enhance athletic performance. Students will look at how psychology influences sports and athletic performance as well as application to all areas of life. Goals of the course include introducing students to sport psychology theory, methodology and techniques used in the field, at the same time applying them to real world situations and enhancing mental strength.

***SS 84 IB Political Thought Standard Level**

Grade: 11-12

2 sem. — 1 Social Studies Credit

This course will investigate the numerous movements, thinkers, and ideologies that have permeated history. Students will read primary works from political philosophers such as John Locke, Niccolo Machiavelli, Karl Marx, and Edmund Burke and analyze how political theory has shaped American Government. In addition, there will be an emphasis on dialogue throughout the year. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course. NOTE: This course meets the graduation requirement for Government.**

***SS 83 & SS 85 IB Business Management Higher Level I & II**

Grade: 11 – 12

4 sem. — ½ Social Studies Credit/1½ Elective Credit

This course is designed to develop an understanding of business theory and an ability to apply business principles, practices, and skills. It aims to encourage a holistic view of the world of business and economics by promoting an awareness of social and ethical factors in the actions of organizations and individuals in those organizations. Developing international mindedness and an awareness of different cultural perspective provides students the skills to think critically and appreciate the nature and significance of change in a local and global context. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course. NOTE: This course meets the graduation requirement for Economics.**

***SS 86 AP Microeconomics**

Grade: 12

1 Sem. — ½ Social Studies Credit

Prerequisite: 1 year of American History

This course provides students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course. NOTE: This course meets the graduation requirement for Economics.**

VERIFY OFFERINGS AT SCHOOL SITE

SOCIAL STUDIES

***SS 87 AP Macroeconomics**

Grade: 12

1 Sem. — ½ Social Studies Credit

Prerequisite: 1 year American History

This course provides students a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places particular emphasis on the study of national income and price-level determination and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth and international economics. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course. NOTE: This course meets the graduation requirement for Economics.**

***SS 88 IB Economics Standard Level**

Grades: 11-12

2 Sem. — 1 Social Studies Credit

Prerequisites: IB Coordinator Approval

This course will prepare students for the IB Standard Level economics exam. Students will study the interaction of the United States government, business and consumers in the marketplace, with an emphasis on international markets and global trade. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course. NOTE: This course meets the graduation requirement for Government and Economics.**

***SS 89 IB Psychology Standard Level**

Grades: 11-12

2 Sem. — 1 Elective Credit

Prerequisites: IB Coordinator Approval

This course introduces students to the systematic and scientific study of the behavior and mental processes of humans 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 methods psychologists use in their scientific research and practice. Students should be prepared to complete work equivalent to what they would encounter in an introductory college course in psychology. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

***SS 92 & SS 93 IB History of the Americas I & II**

Grades: 11-12

4 Sem. — 2 Elective Credits

Prerequisites: IB Coordinator Approval

This is a two-year course at the Higher Level. This is a comparative course which will integrate the history of the United States and the histories of Canada and Latin America as well. It is designed to promote an awareness and understanding of countries in the Western Hemisphere and development of cognitive habits. Students are introduced to the Americas through a comparative multi-regional analysis of cultural, political, social and economic issues. The junior year students will begin an in-depth study of the United States, Canada and Latin America from the 1850's to the 1970's. The senior year will continue to center on an analysis of the Western Hemisphere in the 20th century with additional emphasis on the causes, effects and consequences of war, the rise of single party states and the Cold War. These courses are part of the IB Diploma Programme. **NOTE: These are weighted courses.**

***SS 95 IB Theory of Knowledge**

Grades: 11-12

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: IB Coordinator Approval

The purpose of Theory of Knowledge (TOK) is to stimulate reflection on the knowledge and the experience of students both in and outside the classroom. TOK examines various areas of knowledge, truth, logic, value judgments and the role of language and thought in knowledge. The course challenges students to question the basis of knowledge, to be aware of subjective and ideological biases and to develop a personal mode of thought based on analysis of evidence and expressed in rational arguments. Two essays written on prescribed topics make up TOK's assessment. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

SOCIAL STUDIES

***SS 97 IB Psychology Higher Level I**

Grade: 11 2 Sem. — 1 Elective Credit

Prerequisites: IB Coordinator Approval

The first year will be an intense focus on four major theoretical perspectives: Biological, Behavior, Cognitive and Humanistic. The focus will be on the analysis of the philosophical roots, supportive and critical research, internal and external variants, prediction and control. Assessments for these courses will attempt to measure the students ability to articulate and incorporate content with the processes of analysis and synthesis of relevant information. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

***SS 98 IB Psychology Higher Level II**

Grade: 12 2 Sem. — 1 Elective Credit

Prerequisites: SS 97

The second year IB students will rigorously implement the attitude and methodology necessary to the science of psychology. Content will focus around the psychodynamic perspective and the origin, nature and treatment of mental disorders. Assessments for these courses will measure the students ability to articulate and incorporate content with the processes of analysis and synthesis of relevant information. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

SS 99 INDEPENDENT STUDY**Frequently Asked Questions About Social Studies**

CAN JUNIORS TAKE AMERICAN GOVERNMENT AND/OR ECONOMICS?

Generally speaking, no, but exceptions are made upon approval. Student must have completed American History before taking American Government or Economics.

CAN STUDENTS TAKE PART OF AMERICAN HISTORY ONE YEAR AND THE OTHER PART THE FOLLOWING YEAR? **It is not recommended since students will be expected to take Government and Economics the following year.**

IS THERE A SOCIAL STUDIES TEST REQUIRED FOR HIGH SCHOOL GRADUATION? **Students are required to take the American Civics test to graduate. (See page 10 for details.)**

VERIFY OFFERINGS AT SCHOOL SITE

TRAFFIC SAFETY

TS 32 Driver Education

Grades: 10-12 1 Sem. — ½ Elective Credit

Fees: **Fee is paid through the school bookstore for optional Behind the Wheel Training - learners permit required**

Driver Education is a one-semester course aimed at the development of the knowledge, skills and attitude necessary for performing as a competent vehicle operator and highway user.

It is a multi-phase program consisting of classroom instruction, simulator instruction and on-street instruction. The on-street instruction is conducted before and after school, on week-ends and vacation days.

The course is open to all students who will be 15 years and six months or older by November 1st for the first semester, and April 1st for the second semester. (Normally 10th grade). A learners permit is required.

The completion of this course, including the optional on-the-street instruction, may qualify the student for an insurance premium reduction. The student must earn a "C" or better in all phases to receive the Certificate of Completion Card upon completion of the course.

As all Mesa high schools' Traffic Safety programs are State Approved, the course qualifies as one of the methods for the students to obtain their Drivers License under the State's Graduated License program. Also, the fee paid for Behind-the-Wheel qualifies for the extra-curricular State tax credit (ECA).

Frequently Asked Questions About Traffic Safety

DO STUDENTS NEED A PERMIT OR LICENSE TO TAKE DRIVER ED? **Not to register, but in order to drive on the street, a student must have a permit or license before December 1 for the first semester class, and before May 1 for the second semester class.**

WILL STUDENTS GET AN INSURANCE REDUCTION IF THEY TAKE DRIVER ED? **The discount depends on your insurance company. Contact your insurance company to find out.**

DOES THE GRADE STUDENTS RECEIVE FOR DRIVER ED. COUNT IN THEIR GRADE POINT AVERAGE? **Yes.**

DO STUDENTS HAVE TO TAKE BEHIND-THE-WHEEL TRAINING? DOES IT COUNT AGAINST THEM IF THEY DON'T? **Students must satisfactorily complete the Behind-The-Wheel training if they want to qualify for a Graduated Drivers License requirement.**

CAN STUDENTS TAKE DRIVER ED. IF THEY CAN ALREADY DRIVE AND HAVE THEIR LICENSES? **Yes.**

HOW OLD DO STUDENTS HAVE TO BE TO GET THEIR LICENSE? **1. Sixteen years old with parental consent and completion of a state approved driver education course, or 25 hours supervised driving with a parent, including night driving; OR 2. 18 years old without parental consent**

DO PARENTS HAVE TO SIGN FOR STUDENTS TO GET A LEARNER PERMIT? **Yes, one parent, either father or mother, may sign if both living and have custody, or the parent having sole custody must sign. If both parents are living, not married to each other and each has custody, then both parents must sign.**

WHEN DO STUDENTS GET TO DRIVE IN BEHIND-THE-WHEEL TRAINING? **This is determined by age of students. Older students drive first.**

HOW MUCH TIME IS INVOLVED IN THE BEHIND-THE-WHEEL INSTRUCTION, AND HOW IS IT SCHEDULED? **A minimum of 3 hours actual driving and 3 hours of observation is given to each student. After a student gets his/her Learner's Permit, he/she is scheduled individually to complete the driving. Some students may need to complete the driving shortly after the semester is over.**

VERIFY OFFERINGS AT SCHOOL SITE

WORLD LANGUAGES

Note: Courses that will meet the core competency requirements for Arizona universities are marked with an asterisk.

SUBJECT AREA GOAL:

The student will competently use a world language for written and oral communication and demonstrate a knowledge of appropriate cultural behaviors.

ESSENTIAL SKILLS:

The student will demonstrate the ability to read, write, speak and understand the second language with proficiency appropriate to their level of study.

***WL 18 American Sign Language I**

2 Sem. — 1 WL Credit

Students are introduced to basic sign language vocabulary with emphasis on developing fluency in expressive and receptive signing and finger spelling. The study of Deaf culture is included.

WL 19 American Sign Language II*Prerequisites: Level I Proficient** 2 Sem. — 1 WL Credit

Designed for students with continuing interest in Deafness and ASL. Emphasis is on fluent expressive signing and confident reception of signs. ASL grammatical structures and idioms are used. Vocational options in the area of Deafness are presented.

WL 28 American Sign Language III*Prerequisites: Level II Proficient** 2 Sem. — 1 WL Credit

This course is designed to provide students with the opportunity to demonstrate better comprehension and expression in American Sign. Advanced study of vocabulary, idioms, classifiers, use of space, and grammatical features of American Sign will be included. Students will engage in conversations with native signers, as well as participate in an in-depth study of the Deaf culture. **NOTE: This is a weighted course.**

WL 11 Mandarin Chinese I**WL 21 Spanish I*****WL 31 German I*****WL 41 French I****Prerequisites: Average or above average in English** 2 Sem. — 1 WL Credit

Introduces students to the basic vocabulary of the language and components of the culture of the countries in which the language is spoken. Prepares students to begin to read, write, speak and understand the language.

WL 12 Mandarin Chinese II**WL 22 Spanish II*****WL 32 German II*****WL 42 French II****Prerequisites: Level I Proficient** 2 Sem. — 1 WL Credit

Features application of language skills in reading, writing, and conversation. Level I skills are reviewed and maintained. Appropriate cultural components are studied.

WL 13 Mandarin Chinese III**WL 23 Spanish III*****WL 33 German III*****WL 43 French III****Prerequisites: Level II Proficient** 2 Sem. — 1 WL Credit

Students develop and demonstrate language skills in more advanced forms of written and oral expression. Appropriate cultural components are studied. **NOTE: These are weighted courses.**

VERIFY OFFERINGS AT SCHOOL SITE

WORLD LANGUAGES

WL 15 AP Chinese Language and Culture**WL 25 AP Spanish Language and Culture*****WL 35 AP German Language and Culture*****WL 45 AP French Language and Culture****Prerequisites: Level III Proficient** 2 Sem. — 1 WL Credit

Expanded language skills are developed, with emphasis on conversation, discussion, and production of compositions. Appropriate readings are drawn from a variety of literary sources. Skills necessary to take the Advanced Placement language test are emphasized. Appropriate cultural components are studied. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: These are weighted courses.**

WL 26 AP Spanish Literature and Culture*Grade: 11-12** 2 Sem. — 1 WL Credit**Prerequisites: WL 94 or 25, WL 81**

For the proficient Spanish student, this course is designed to refine linguistic skills integrated with focus on literature and literary analysis. The student will develop the skills necessary to take the AP Exam in Spanish Literature. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: This is a weighted course.**

WL 27 IB Spanish Higher Level II*Prerequisites: WL 94 or WL 90** 2 Sem — 1 Elective/WL Credit

IB Spanish HL 2 focuses on preparing students for the higher level of the International Baccalaureate Spanish examination. Students will continue to advance their ability to communicate in Spanish in all four skills areas as they explore themes of change, groups and leisure through the study of geography, history, art, music and literature. Students who are not enrolled in the IB Diploma Programme may opt to take the AP Spanish exam. This course is part of the IB Diploma Programme. **Note: This is a weighted course.**

***WL 81 Spanish for Spanish Speakers I**

2 Sem. — 1 Elective/WL Credit

Designed for, but not limited to ELL and bilingual Spanish/English students, this literature-based class focuses on reading and writing skills in Spanish while exploring and improving comprehension of literary works. WL 81 emphasizes the writing process, vocabulary enrichment, grammar, and usage skills.

***WL 82 Spanish for Spanish Speakers II**

2 Sem. — 1 Elective/WL Credit

Designed for, but not limited to ELL and bilingual Spanish/English students, this literature-based class focuses on cultural and literary themes. The class emphasizes literary analysis and terminology as well as advanced composition skills. WL 82 prepares students for WL 94 or WL 25 Spanish Language. **Note: This is a weighted course.**

WL 90 IB Spanish Standard Level*Grade: 11-12** 2 Sem. — 1 Elective/WL Credit**Prerequisites: WL 23 Spanish III, teacher recommendation**

Focuses on preparing students for the standard level of the International Baccalaureate Spanish examination. Students will advance their ability to communicate in Spanish in all four skills areas as they explore themes of change, groups and leisure through the study of geography, history, art, music and literature. Students who are not enrolled in the IB Diploma Programme may opt to take the AP Spanish exam. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

WORLD LANGUAGES

***WL 91 IB French Standard Level**

Grade: 11-12 2 Sem. — 1 Elective/WL Credit
Prerequisites: WL 43 French III, teacher recommendation

Designed to expand and develop oral communication, listening, reading and writing skills. Appropriate cultural elements will also be included. Students develop the skills needed for both the AP and IB examinations. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

***WL 92 IB Mandarin Chinese Standard Level I**

Grade: 11-12 2 Sem. — 1 Elective/WL Credit
Prerequisites: WL 13 Chinese III, teacher recommendation

This course focuses on preparing students for the standard level of the International Baccalaureate Chinese Examination. Students will advance their ability to communicate in Chinese in all four skill areas as they explore themes of change, groups and leisure through the study of geography, history, art, music and literature. Students who are not enrolled in the IB Diploma Programme may opt to take the AP Chinese Exam. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

***WL 93 IB Mandarin Chinese Standard Level II**

Grade: 11-12 2 Sem. — 1 Elective/WL Credit
Prerequisite: WL 92, teacher recommendation

This course continues the students preparation for the standard level of the International Baccalaureate Chinese Examination. Students will continue to advance their ability to communicate in Chinese in all four skill areas as they further explore themes of change, groups and leisure through the study of geography, history, art, music and literature. Students who are not enrolled in the IB Diploma Programme may opt to take the AP Chinese Exam. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

***WL 94 IB Spanish Higher Level I**

Grade: 11-12 2 Sem. — 1 Elective/WL Credit
Prerequisites: WL 23, teacher recommendation

Focuses on preparing students for the standard level of the International Baccalaureate Spanish examination. Students will advance their ability to communicate in Spanish in all four skills areas as they explore themes of change, groups and leisure through the study of geography, history, art, music and literature. Students who are not enrolled in the IB Diploma Programme may opt to take the AP Spanish exam. This course is part of the IB Diploma Programme. **NOTE: This is a weighted course.**

WL 99 Independent Study**Frequently Asked Questions About World Languages**

CAN STUDENTS COUNT WORLD LANGUAGE AS A SUBSTITUTE FOR ENGLISH? **No.**

HOW MANY YEARS OF A WORLD LANGUAGE DO STUDENTS NEED TO GET INTO COLLEGE? **To meet Arizona public university requirements, high school students should take at least 2 years in the same world language. Check with the university of your choice regarding other options to meet university entrance requirements such as CLEP Examination scores.**

VERIFY OFFERINGS AT SCHOOL SITE

STUDENT ASSISTANT PROGRAM

The Student Assistant Program was established because there is a need for student help in every department at the senior high schools. The program has been set up under the following conditions:

1. **The student will receive ½ elective credit per semester, a P/F grade is issued.**
2. **The student must have a Student Assistant Program application (with necessary signatures) completed before he/she can be registered in the program.**

It is recommended a student be limited to one credit per school year in the Student Assistant and Work Experience programs. Students are eligible to earn up to and no more than a total of 2 credit hours through the Student Assistant Program.

SA 40 STUDENT ASSISTANT, AGRICULTURAL SCIENCE**SA 41 STUDENT ASSISTANT, ART****SA 42 STUDENT ASSISTANT, BUSINESS EDUCATION****SA 43 STUDENT ASSISTANT, ENGLISH****SA 44 STUDENT ASSISTANT, WORLD LANGUAGE****SA 45 STUDENT ASSISTANT, FAMILY AND CONSUMER SCIENCES****SA 46 STUDENT ASSISTANT, INDUSTRIAL TECHNOLOGY****SA 47 STUDENT ASSISTANT, MATHEMATICS****SA 48 STUDENT ASSISTANT, PERFORMING ARTS****SA 49 STUDENT ASSISTANT, MUSIC****SA 50 STUDENT ASSISTANT, READING****SA 51 STUDENT ASSISTANT, SCIENCE****SA 52 STUDENT ASSISTANT, SOCIAL STUDIES****SA 53 STUDENT ASSISTANT, PHYSICAL EDUCATION****SA 54 STUDENT ASSISTANT, TRAFFIC SAFETY****SA 55 STUDENT ASSISTANT, BOOK STORE****SA 56 STUDENT ASSISTANT, INDIVIDUAL INSTRUCTION****SA 58 STUDENT ASSISTANT, CAFETERIA****SA 60 STUDENT ASSISTANT, PRINCIPAL'S OFFICE****SA 61 STUDENT ASSISTANT, REGISTRATION OFFICE****SA 62 STUDENT ASSISTANT, GUIDANCE OFFICE****SA 63 STUDENT ASSISTANT, ATTENDANCE OFFICE****SA 66 STUDENT ASSISTANT, NURSE'S OFFICE****SA 67 STUDENT ASSISTANT, CUSTODIAN****SA 68 STUDENT ASSISTANT, COMPUTER SCIENCE****SA 69 STUDENT ASSISTANT, ASSISTANT PRINCIPALS' OFFICE****SA 70 STUDENT ASSISTANT, AEROSPACE SCIENCE****SA 64 Media Center**

1 or 2 Sem. — ½ or 1 Elective Credit

Prerequisites: Average. or above grades

Students receive instruction in library skills and procedures with emphasis on the practical application of that instruction. While gaining valuable "on-the-job" experiences, students provide Media Center services to students and faculty.

SA 65 Audio Visual Media Service

1 or 2 Sem. — ½ or 1 Elective Credit

Offers theory and practical experience in the operation of Audio Visual/Computer equipment. Students enrolled in this course help provide valuable audio visual media services for the instructional programs at the school.

VERIFY OFFERINGS AT SCHOOL SITE

NON-CREDIT

NC 40 RELEASED TIME-PERSONAL No Credit
(for religious purposes—A.R.S. §15-806)

NC 50 STUDY HALL No Credit

NC 60 LUNCH No Credit
All high schools

NC 90 - NC 97 RELEASED TIME/Parent Request No Credit

SPECIAL COURSE NUMBERS

AD 86 Academic Decathlon: Fine Arts Exploration in its Scientific & Historical Context

Prerequisites: See Student Advisor **2 Sem. — 1 Fine Arts/Elective Credit**
This course surveys a fine arts curriculum at an introductory college level. It introduces the fundamentals of art composition, art history, and the various techniques adapted to painting, sketching, photography, sculpture, mixed media and architecture. The curriculum also includes the basics of music theory and fundamentals. This in-depth humanities education provides students with the necessary vocabulary for a fine arts historical analysis and encourages the students to understand the significance of a work of art within their original historical, economic, and scientific contexts. This course also prepares students for Academic Decathlon competition. **NOTE: This is a weighted course.**

AI 40 Academic Intervention

1 or 2 Sem. — ½ or 1 Elective Credit

This course provides students extra time and intervention services to accelerate achievement in reading, writing or mathematics. In a Response to Intervention (Rti) model this is a tier 2 intervention providing additional focused instruction.

AV 09, AV 10, AV 11, AV 12 AVID

2 Sem. — 1 Elective Credit

AVID is a junior through senior high school college readiness system designed to prepare self-determined students who have demonstrated average achievement for college readiness. The program enrolls students in rigorous courses and provides them with intensive support to ensure their success. The major component is a daily AVID elective class that students must attend. During this class, students receive training in effective note taking, organizational, and goal-setting strategies. Extensive writing and reading instruction is also provided. AVID students are academically capable students who would typically be the first in their families to attend college. Placement is done through an application process.

CP 20 AP Capstone: AP Seminar

2 Sem. — 1 Elective Credit

In this yearlong course, students develop and strengthen analytic and inquiry skills, exploring two to four relevant issues chosen by the student and/or teacher. For example, students might explore the question of whether national security is more important than a citizen's right to privacy, or whether genetic engineering is a benefit to society. Using an inquiry framework, students practice reading and analyzing articles; research studies; foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to consider an issue from multiple perspectives, evaluate the strength of an argument, and make logical, fact-based decisions. Students question, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media. After taking AP Seminar, students will have the opportunity to further hone their inquiry and analytical writing skills in AP Research. **NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

SPECIAL COURSE NUMBERS

CP 21 AP Capstone: AP Research

2 Sem. — 1 Elective Credit

AP Research allows students to design, plan, and conduct a yearlong research-based investigation on a topic of individual interest, documenting their process with a portfolio. This allows students to demonstrate the ability to apply scholarly understanding to real-world problems and issues. Students further the skills developed in AP Seminar by learning how to understand research methodology, employ ethical research practices, and access, analyze, and synthesize information to build, present, and defend an argument. **NOTE: This is a weighted course.**

SK 10 Study Skills

1 or 2 Sem. — ½ or 1 Elective Credit

A course to teach skills in organization, reading, note taking, test taking, assignment completion, stress and time management, communication and self advocacy with an emphasis on application of strategies to content areas. SK10S Study Skills: This course is designed to teach and reinforce college and career readiness skills in the areas of executive functioning, self-advocacy, self-awareness, inquiry, collaboration and organization. This course is recommended for students transitioning to high school as well as students who need to improve their skills as they work through high school and prepare to transition to their post-secondary education or career.

SK 11S Social Emotional Skills

1 or 2 Sem. — ½ or 1 Elective Credit

This course is designed to teach and reinforce college and career readiness skills in the areas of executive functioning, self-advocacy, inquiry, organization, self-awareness, social awareness, responsible decision-making, self-management, and relationship skills. This course is recommended for students transitioning to high school as well as students who need to improve their college and career readiness skills, with an additional focus on social emotional learning, as they work through high school and prepare to transition to their postsecondary education or career.

SK 20 High School 101

2 Sem. — 1 Elective Credit

The freshman year of high school is a critical year in a student's academic life. This course is designed to guide and support incoming freshmen as they transition from junior high to the demands of high school. The program focuses on using teacher and student mentors to facilitate activities that acclimate freshmen to the social and academic rigors of the high school campus. Students will learn skills promoting proactive behavior, as well as a growth mindset.

SK 30 College and Career Readiness

2 Sem. — 1 Elective Credit

The course will focus on strategies to create success in college. It will include methods for selecting and developing effective academic strategies, increasing self-awareness, understanding self-advocacy and developing self-management strategies. It is also designed to assist students to make informed career decisions. The course focuses on current occupational trends and outlooks. Students will explore career-related interests, values, needs, preferences, skills, and strengths with the use of various assessments.

ST 20 Leadership

Prerequisites: Teacher recommendation **1 Sem. — ½ Elective Credit**

This course is designed to teach students leadership skills that apply to work, community, family, and school settings. Students will learn a 5-stage mediation process and use their skills to help other students resolve conflicts. Effective communication behaviors such as active listening, consensus building, questioning, effective complaining, and "I" messages will be learned and practiced. Students will demonstrate leadership by becoming involved in campus and community service projects. Other topics to be explored include ethics, unity/diversity, confidence building, decision-making, teamwork, public speaking, personal development, and qualities of good leaders.

VERIFY OFFERINGS AT SCHOOL SITE

SPECIAL COURSE NUMBERS

ST 30 Link Leadership**2 Sem. — 1 Elective Credit**

The Link Leadership course is designed for junior and senior students who have applied and been selected as Link Crew Leaders. Students will gain leadership skills to use in school, the community, and beyond as they focus on team and climate building, organization, leadership, communication, facilitation/teaching and personal development.

ST 92 Student Council**1 Yr. — 1 Elective Credit**

Designed for students elected to the Student Council.

ST 94 Service Learning/Community Engagement**Grade: 9-12****1 or 2 Sem. — ½ Elective Credit**

Combines classroom study of community issues, civic engagement, and career interests with field experience serving in the community. Students attend class two days a week and volunteer three hours a week at one or more placement sites such as schools, community organizations, or sports leagues. Classroom activities focus on personal and interpersonal skill development, leadership, project planning, and employment skills. Classroom and volunteer hours combined must total 90 hours for each 1/2 credit.

CAREER EXPLORATION PROGRAM

WE 90 Career Exploration Program**9 weeks — 2 Sem.; 128 hrs. = ½ Credit****Prerequisites: Parent/Guardian Consent****256 hrs. = 1 Credit**

The Career Exploration Program is an opportunity for students to earn elective credit while working in a paid position. There are no regular classes to attend; however, Career Activity Assignment booklets are required to be completed in addition to working on the job. Only one full credit may be earned without prior approval of principal. The Career Resource Center at your school has all the information and forms you need.

ADDITIONAL ACADEMIC COURSES

EN 19C Connected Freshman Essentials of English**2 Sem. — 1 English Credit**

A course in which the curriculum addresses reading literature and informational text, writing, speaking and listening skills, and language concepts (conventions and vocabulary). Students will engage in evidence based reading and writing. This course reinforces basic reading and writing skills while teaching the essential skills of Freshman English at a more individualized pace. Course may be taken only upon teacher approval. Course content will be aligned to Core Content Connectors, and instruction will be differentiated to meet the specialized needs of the student.

EN 28S English Skill Builder**1 or 2 Sem. — ½ or 1 Elective Credit**

A class paired with the assigned English class. This course will strengthen prerequisite skill, support and maintain on grade level concepts as well as address study skills. Successful completion of the course will provide students with elective credit.

EN 29C Connected Senior Essentials of English**2 Sem. — 1 English Credit**

A course in which the curriculum addresses reading literature and informational text, writing, speaking and listening skills, and language concepts (conventions and vocabulary). Students will engage in evidence based reading and writing. This course reinforces basic reading and writing skills while teaching the essential skills of Senior English at a more individualized pace. Course may be taken only upon teacher approval. Course content will be aligned to Core Content Connectors, and instruction will be differentiated to meet the specialized needs of the student.

VERIFY OFFERINGS AT SCHOOL SITE

ADDITIONAL ACADEMIC COURSES

EN 37C Connected Junior Essentials of English**2 Sem. — 1 English Credit**

A course in which the curriculum addresses reading literature and informational text, writing, speaking and listening skills, and language concepts (conventions and vocabulary). Students will engage in evidence based reading and writing. This course reinforces basic reading and writing skills while teaching the essential skills of Junior English at a more individualized pace. Course content will be aligned to Core Content Connectors, and instruction will be differentiated to meet the specialized needs of the student.

EN 38C Connected Sophomore Essentials of English**2 Sem. — 1 English Credit**

A course in which the curriculum addresses reading literature and informational text, writing, speaking and listening skills, and language concepts (conventions and vocabulary). Students will engage in evidence based reading and writing. This course reinforces basic reading and writing skills while teaching the essential skills of Sophomore English at a more individualized pace. Course may be taken only upon teacher approval. Course content will be aligned to Core Content Connectors, and instruction will be differentiated to meet the specialized needs of the student.

II 03S Individual Instruction**1 Sem. — ½ Elective Credit**

The Individual Instruction course provides an opportunity for students to learn specific strategies pertaining to a targeted area. This course places emphasis on methods of instruction utilizing an abundance of resources to assist students.

MA 27C Connected Algebra I**2 Sem. — 1 Math Credit**

Mathematical practices and modeling mathematics are embedded into standards for algebra to include the study of number and quantity, functions, reasoning with equations and inequalities, and interpreting categorical and quantitative data. Instructional time and learning focuses on three critical areas: (1) seeing structure in expressions (2) creating equations (3) reasoning with equations. Course may be taken only upon teacher approval. Course content will be aligned to Core Content Connectors, instruction will be differentiated to meet the specialized needs of the student.

MA 30C Connected Geometry**2 Sem. — 1 Math Credit**

Mathematical practices and modeling with mathematics are embedded into standards for geometry to include the study of congruence, similarity, right triangles, and trigonometry, circles, expressing geometric properties with equations, and geometric measurement and dimension. Instructional time and learning focuses on five critical areas: (1) congruence; (2) similarity; (3) connecting algebra and geometry through coordinates; (4) area of circles; (5) applications of probability. Course may be taken only upon teacher approval. Course content will be aligned to Core Content Connectors, and instruction will be differentiated to meet the specialized needs of the student.

MA 35C Connected Personal Finance**2 Sem. — 1 Math Credit**

This course introduces students to the basics of financial literacy including such topics as creating personal financial goals, saving, banking, using debit and credit cards, and making purchases. Course may be taken only upon teacher approval. Course content will be aligned to Core Content Connectors, and instruction will be differentiated to meet the specialized needs of the student.

MA 38C Connected Algebra Applications**2 Sem. — 1 Math Credit**

This course extends and applies the concepts of Connected Algebra I. The curriculum includes the study of linear and exponential functions. Course may be taken only upon teacher approval. Course content will be aligned to Core Content Connectors, and instruction will be differentiated to meet the specialized needs of the student.

VERIFY OFFERINGS AT SCHOOL SITE

ADDITIONAL ACADEMIC COURSES

PP 19S Community Awareness**2 Sem. — ½ Elective Credit/Sem.**

This course provides instruction in the free enterprise system as it applies to independent living. Emphasis includes instruction in budgeting, cost comparisons, purchasing, making change, determining the cost of items, living costs, determining tax on items, and job wages.

PP 21S Career Planning Strategies**1 Sem. — ½ Practical Arts Credit**

Career Planning Strategies is a specialized class that provides students with the skills necessary to prepare for work/career readiness. Students will complete vocational assessments such as interest inventories and strengths surveys. In addition, the students will develop self-advocacy skills, self-determination skills, research careers, identify career expectations both in the classroom and in the community, in preparation for life after high school.

PP22S Career Planning Strategies II**Prerequisite: PP 21S****1 Sem. — ½ Practical Arts Credit**

Career Planning Strategies II is a specialized class for students that continues with the concepts taught in Career Planning Strategies. Students will develop the skills necessary to pursue their career path such as, improving their soft skills necessary for obtaining employment, understanding the college application process, navigating the application for attending trade schools, understanding what is necessary for life after high school. Prerequisite: Career Planning Strategies.

PP 23S Career Exploration**1 or 2 Sem. — ½ or 1 Elective Credit**

The purpose of career exploration is for students to explore possible career, vocational and workplace options through interest inventories and a variety of hands on work related experiences to assist students in determining their strengths, preferences and interests as it relates to potential work opportunities and careers.

PP 28S On-The-Job Training**1 or 2 Sem. — ½ or 1 Elective Credit**

The On the Job Training course is an opportunity for students to earn elective credit while working in a paid or volunteer setting. Students will develop job skills in an actual work setting obtained on campus or in the community. Students apply learned workplace skills and receive training to prepare them for post secondary job placement.

PP 29S Community Work Experience**1 Sem. or 2 Sem. — 128 hrs = ½ credit, 256 hrs = 1 Credit**

Community Work Experience are specialized full year programs with students obtaining paid employment in the community. Students apply work readiness skills and receive advanced training opportunities through paid employment in the community. Job development and placement is provided in addition to minimal job coach assistance, when necessary. Students are required to attend one hour of daily classroom instruction and will work on average 15 hours per week.

PP 37S Alternative Work Experience**1 or 2 Sem. — ½ or 1 Elective Credit**

Trial Work Experience (TWE) is a work adjustment course that provides job readiness experience while training on a job site, generally within through on-campus work experience or in-district internships. Students receive credit toward graduation for their work experiences based on input from the assigned staff member and the transition facilitator. Job sites are individually tailored to help the student's transition from a school work site to training in a paid work site. The program can be used as a prerequisite to Community Work Experience. **Note: Course may be taken only upon teacher approval by the transition facilitator.**

VERIFY OFFERINGS AT SCHOOL SITE

ADDITIONAL ACADEMIC COURSES

PP 51S Life Skills**2 Sem. — 1 Elective Credit**

This course provides instruction in activities that increases a student's ability to function with maximum participation possible in their daily life, within present and future environments. Activities may include health and safety, adult living skills (i.e. shopping, interpreting bus schedules, purchasing), meal preparation and planning.

PP 57S Basic Science**2 Sem. — 1 Elective Credit**

This course provides instruction based on the Arizona State Standards in science. Emphasis will focus on science concepts and content through a hands-on science approach.

PP 60S Listening/Speaking and Increased Social Skills**2 Sem. — 1 Elective Credit**

This course focuses students on how to use communication skills to describe the thinking process and understand the intentions of others better. Objectives include higher order thinking and reasoning skills such as cause/effect, predictions, inferences, and perspective taking that relate to effective group communication and analysis of written language for literary and informational purposes.

PP 80S Physical Education**1 or 2 Sem. — ½ or 1 PE Credit**

This course provides students a basic foundation in the areas of nutrition, recreation/ leisure, and aerobic activity through interactive learning experiences which are designed to promote and increase lifetime physical fitness.

PP 81S Health Education**1 Sem. — ½ Elective Credit**

A comprehensive study of alcohol, drug and tobacco abuse to the human body. Includes nutrition, digestion, disease, public health and improving personal health attitudes, and a unit on first aid and safety. Speakers from community drug and alcohol rehabilitation groups may be invited.

PP 85S Service Learning**2 hrs./week = ½ Elective Credit/Sem.****5 hrs./week = 1 Elective Credit/Sem.**

A chance to do volunteer service in the community for experience and training.

PP 86S Vocational Training Experience**2 hrs./week = ½ Elective Credit/Sem.****5 hrs./week = 1 Elective Credit/Sem.**

The program fits the individual need of the student. Many students will also be involved with Vocational Rehabilitation or other community agencies.

PP 94S Visual Impairment Individual Instruction

This course covers slate and stylus skills, typing/computer training, other specialized technology training, visual efficiency training, listening skills, daily living skills, sensory awareness and career awareness.

RD 51C Connected Reading I**RD 52C Connected Reading II****RD 53C Connected Reading III****RD 54C Connected Reading IV****2 Sem. — 1 Elective Credit**

These courses are designed to meet the literacy needs of the students who require additional support in reading. The classes will focus on improving the student's literacy skills addressing the essential components of Reading: Phonemic Awareness, Phonics, Vocabulary, Comprehension, and Fluency. Assessment is required prior to placement in these classes. Course may be taken only upon teacher approval. Course content will be aligned to Core Content Connectors, and instruction will be differentiated to meet the specialized needs of the student.

EAST VALLEY INSTITUTE OF TECHNOLOGY (EVIT) COURSE CATALOG

East Valley Institute of Technology – EVIT | 2019-2020/2021 Course Catalog

Main Campus: 1601 W Main St, Mesa, AZ 85201 | (480) 461-4000

East Campus: 6625 S Power Rd, Mesa, AZ 85212 | (480) 308-4600

Fountain Hills Campus 17,300 E. Calaveras Ave., Fountain Hills AZ 85268 | (480) 835-3100

<http://www.evit.com> | <http://facebook.com/EVITNews> | <http://twitter.com/EVITNews>



Frequently Asked Questions

What is EVIT?

The East Valley Institute of Technology (EVIT) is a public career and technical education school providing more than 40 occupational training programs tuition-free to district, charter school and home-schooled high school students who reside within the boundaries of 11 East Valley school districts - Apache Junction, Chandler, Fountain Hills, Gilbert, Mesa, Queen Creek, Scottsdale, Tempe, Higley, Cave Creek and J.O. Combs. Classes are offered at two centralized campuses in Mesa - the Dr. A. Keith Crandell (Main) Campus, 1601 W. Main St., the East Campus, 6625 S. Power Road, the Fountain Hills Campus, 17,300 E. Calaveras Ave., and at Apache Junction High School. Students spend a half-day at EVIT and the other half-day at their home high school. School districts provide bus transportation for their students to and from EVIT for most programs. Students must be at least 16 years old. Tuition-based programs for adults are also offered, with financial aid available.

EVIT's Mission

To provide students a career and college preparatory training experience that produces a qualified workforce, meeting the market-driven needs of business and industry.

EVIT's Vision

Students successfully complete their EVIT experience with industry credentials, college credit and hands-on training, allowing them to become competitive in the global workforce.

EVIT's Purpose

To change students' lives by loving our students and serving our communities. To empower and encourage our students to become productive and passionate about their future career and educational goals.

Business/Industry and College Articulation

EVIT offers many school-to-work options with participating businesses, including manufacturing, automobile dealerships, hospitals and many others. Advanced students may have opportunities in industry and community colleges in the form of job placement, apprenticeships, internships, cooperative education and college credit articulation.

Career & Technical Student Organizations

All EVIT students participate in a Career & Technical Student Organization. Membership in state and national clubs is encouraged:

SkillsUSA	Technical, skilled, and service careers
FCCLA	Family, Career, and Community Leaders of America
HOSA	Health Occupation Student Association
C-CAP	Careers in Culinary Arts Program
ERA	Educators Rising Arizona
FBLA	Future Business Leaders of America

When do students register?

Students are encouraged to apply for EVIT programs during the spring semester prior to classes that begin in August, but registration for classes is ongoing. EVIT registration opportunities are offered during regular high school registration, any time through the home high school at EVIT Locations or on [EVIT.com](http://www.evit.com). Each high school has at least one des-

ignated counselor with materials and information regarding EVIT registration. For more information, call 480-461-4000 or visit [EVIT.com](http://www.evit.com). (** **EVIT will be moving to an online only model this school year. Paper application will still be accepted but we encourage students to use our online portal. (available November 4, 2019)****

What is needed to register?

Students will need a copy of their transcript, the results of a recognized standardized test such as the Stanford 10 or AIMS/AZMerit if the student does not meet minimum program GPA requirements, and attendance and discipline records or a completed Attendance and Discipline Scoring Rubric.

How many credits can be earned?

A student can earn 3-4 credits per year at EVIT applicable toward graduation requirements in their home district. Students who miss ten (10) days or more during a semester and are unable to make up those days will receive a grade of "Audit" for the semester. Students who fulfill the graduation requirements from their home district earn a diploma from their home high school. Community college articulation and/or dual enrollment credit is in place for high school students in designated courses.

Do the credits from EVIT just count as electives?

Generally, credits earned at EVIT fulfill only elective credit requirements for graduation. Human Anatomy and Physiology for Medical Careers (MC10) counts as a lab science, having been approved by the Arizona Board of Regents and the home high school districts as what is called an "embedded credit." It is recognized and accepted at all Arizona universities as part of the entrance requirements. For the year-long course, students earn one (1) lab science credit and two (2) elective credits for a total of three (3) credits. EVIT staff are working to get other EVIT program courses recognized as fulfilling core academic graduation requirements.

What time are classes?

Classes meet Monday through Friday from 8:05 to 10:35 a.m. or 12:05 to 2:35 p.m. Students have the option of attending the AM or PM session. They attend their home school during the other portion of the day. The class times for some programs, such as Cosmetology, may be extended to meet state certification requirements.

Are there fees?

EVIT is tuition-free for high school students. Class fees vary by program and are based on the cost of required tools, supplies/materials, certification/licensure exams and career and technical student organization (CTSO) membership.

Are classes at EVIT offered to adults?

Classes are available and open to adult students during the daytime, as space permits, and in the evening for some courses. Tuition is charged for adult students. For more information about programs for adult students, please contact the EVIT Adult Education Center at (480) 461-4108 or (480) 461-4025 or visit www.evit.com/adulted.

EVIT High School Programs by Campus

Note: Program offerings are subject to change or adjustment based on variety of factors, including student enrollment.

COURSE CODE	PROGRAM NAME	MAIN	EAST	A.J.	F.H.
DA10/20/30	3D Animation	X			
CS14/24	Aesthetics	X			
AM10/20/30/35	Automotive Technologies	X			
AV05/10/20/35	Aviation		X		
BK10/20/30	Banking and Financial Services	X			
CS15/25/35	Barbering	X			
MC65/66	Behavioral, Mental and Social Health Services	X			
IT12/20/22/23	Networking / Cyber Security*	X	X		X
IT13/40/45	Coding and Mobile App Design	X			
AB10/20/30/35	Collision Repair	X			
CU20/25/26	Commercial Baking and Pastry Arts	X			
CT10/20/25	Construction	X		X	
CS10/20/31	Cosmetology	X	X		
LE10/20/25	Criminal Justice	X			
CU10/15/16	Culinary Arts	X		X	
MC60/61	Dental Assisting*	X			
AM63/68/69/70	Diesel Technologies	X			
IT11/30/35	Digital Device Diagnostic and Repair	X			
CC10/20/25	Early Childhood Education	X		X	
MC55/56	Emergency Medical Technician*	X			
FIT11/13/25	Fashion Design and Merchandising	X			
FF10/20/21/22/25	Fire Science Academy	X			
IT60/61/62/63	Future Engineers		X		
MM30/35/40	Graphic/Web Design	X			X
AC10/20/25	Heating, Ventilation and Air Conditioning (HVAC)	X			
MC77/78	Home Health Aide*	X			
HM10/20/25	Hospitality Management	X			
MC10	Human Anatomy & Physiology for Medical Careers	X	X		X
FIT12/14/35	Interior Design & Merchandising	X			
MT10/20/30/35	Machining Technology	X			
MA05/06/10/20	Massage Therapy	X			
MC20/21/22/23	Medical Assistant*	X	X		
MC30/31	Nursing Assistant*	X	X		X
MC57/58	Occupational Therapy Aide*	X			
MC43/63	Pharmacy Technician*	X			
MM02	Digital Photography*				X
MC45/46	Physical Therapy Technician*	X			
PLB10/20/22	Plumbing	X			
RB10/20/30	Radio/Audio Production	X			
MC44/64	Veterinary Assistant*		X		
TV10/20/30	Video Production	X			X
WD10/20/25	Welding	X		X	

*These are second-year courses. Please see pre-requisites.

EVIT Registration and Counseling Department

Registrar-Andrea Macias

Main Campus: 480-461-4109 amacias@evit.com

High School & Adult

Course Scheduling, Grades, Transcripts, Data Collection & Management, Bi-Lingual Services

High School Counselor-Joyce Eagar-Lemons

Main Campus: 480-461-4159 jeagar-lemons@evit.com

Special Projects: Crisis, Reporting

Programs: Criminal Justice, Culinary/Baking, Fire, all Health-related programs, Fashion Interior Design, Banking, Early Childhood Education

High School Counselor-Jacob Hansen

Main Campus: 480-461-4161 jhansen@evit.com

Special Projects: McKinney-Vento, Keys, GED

Programs: 3D Animation, Graphic Design/Photo, Radio, Video, Automotive, Collision & Diesel, HVAC, Machining, Plumbing, Construction, Welding, Cosmo/Barbering, iTEC (coding, cyber, networking, computer maintenance & repair)

High School Counselor-David Pullman

East Campus: 480-308-4607 dpullman@evit.com

Special Projects: Dual Enrollment

Programs: Everything East (All programs at East Campus)

STEPS - Special Education & IEP/504 Coordinator-Tony Niccum

Main & East Campus: 480-461-4154 tniccum@evit.com

Special Projects: Keys to Success Foster Program, Behavioral Health, Social Services

Special Education Administrative Assistant-Anita Aguinaga

Main Campus: 480-461-4155 aaguinaga@evit.com

Special Projects: IEP/504 Accommodations Coordinator & Services

EVIT Recruitment Team

James Brady, High School Recruiter

Fountain Hills Campus: 480-835-3115 • jbrady@evit.com

Schools: Cactus Shadows, East Valley Academy, Fountain Hills, Desert Mountain, Chaparral, Saguaro, Coronado, Arcadia, Westwood, Mountain View, Red Mountain.

James Martinez, High School Recruiter

East Campus: 480-308-4614 • jmartinez@evit.com

Schools: Apache Junction, Basha, Campo Verde, Casteel, Higley, Skyline, J.O Combs, Desert Ridge, Perry, Queen Creek, Eastmark, Williams Field and Charter Schools.

Cassi Perez, High School Recruiter

East Campus: 480-308-4614 • jmartinez@evit.com

Schools: Tempe, McClintock, Marcos de Niza, Corona del Sol, Desert Vista, Mountain Pointe, Compadre, Dobson, Mesquite, Chandler, Hamilton, Mesa, Highland, and Gilbert.

High School Counselor Steps to Register a Student for EVIT

1. Students should familiarize themselves with the curriculum and requirements for their program of choice. This can be done through the EVIT website or through this guide.
2. Students should be on track with credits to graduate and plan to dedicate at least three hours in their daily schedule to attend EVIT.
Morning session: 8:05 to 10:35 a.m.
Afternoon session: 12:05 to 2:35 p.m.

Please note: Cosmetology, Aesthetics, Barbering, 1 year Massage Therapy, & 1 year Medical Assistant have extended hours and meet from 7 a.m. to 11 a.m. or 12 p.m. to 4 p.m. Students may have to provide their own transportation for these programs

3. Students should be informed of the date EVIT counselors will visit their campus.
4. Students should have the following documents in hand when meeting with EVIT counselors:
 - **EVIT enrollment application with required signatures (high school counselor, parent)**
**** EVIT will be moving to an online only model this school year. Paper application will still be accepted but we encourage students to use our online portal. (available November 4, 2019)**
 - **Unofficial transcript**
 - **AZMerit or other standardized test scores (If GPA is below program minimum)**
 - **Attendance record (or rubric completed by home high school counselor)**
 - **Discipline record (or rubric completed by home high school counselor)**
 - **Proof of age (may be on transcript)**
 - **Immunization records**



Returning EVIT Students

Students who are returning for a second year will not need to re-apply, but must complete a Returning Student Form through EVIT Admissions to reserve a slot for their program of choice. Students requesting to return for a new program, different from the one they completed, will need to submit an updated transcript along with their Returning Student Form. High School Counselors may contact the EVIT Registrar at the end of May for a tentative enrollment list of their students. Please note that new and returning student enrollments are subject to change depending on course enrollment totals.

Walk-In Registration

EVIT's Admissions Department is centrally located at the Dr. A. Keith Crandell - Main Campus 1601 W. Main Street, Mesa. Office hours are 7:30 a.m. to 4 p.m., Monday through Friday during the school year with Summer Hours 7:30 a.m. to 4:00 p.m., Monday through Thursday. It is recommended that students/parents requiring specialized advisement to call ahead at 480-461-4000.

Walk-In Registration is always welcome, but please advise your students that they will need to hand carry all required documents for their application to be reviewed by EVIT Admissions. Upon review, if the student meets the criteria for their program of choice, and is approved by a EVIT, then the student will be accepted for enrollment. It is the student/parent responsibility to coordinate their schedules with their respective High School Counselor.

Students must contact EVIT Admissions for verification of approved enrollment if they submit an application after July 1st. Phone calls to 480-461-4108 or 4110 will ensure a timely response. Be advised: EVIT is moving to an online registration system. Please visit EVIT.com & click on ENROLL. This system will be up and running by November 4, 2019.

PLEASE NOTE: *Any student interested in programs at EVIT may submit an application for consideration. EVIT does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities. EVIT has a policy of non-retaliation against any person who makes a complaint, testifies or participates in an investigation or civil rights proceeding regarding prohibited discrimination. EVIT will not request or consider IEPs, 504 Plans or other disability-related information in its admissions process. For "Seniors only" courses, students must have a grade 12 equivalent in academic credits.*

EVIT COURSES

AGRICULTURE AND WELDING

WELDING TECHNOLOGIES

WD10 Welding I

1 Semester

Get fired up about a career in welding. Sequenced in accordance with the American Welding Society's (AWS) S.E.N.S.E school requirements. Welding 1 covers safety equipment, protective clothing, and procedures applicable to the cutting and welding of metals. With hands on in learning Oxyfuel Cutting as students will perform cutting techniques that include straight line, piercing, bevels, washing, and gouging. Plasma Arc Cutting; Covers plasma-arc cutting methods for piercing, slotting, squaring, and beveling metals. SMAW – Equipment and Setup, SMAW Electrodes, SMAW – Beads and Fillet Welds showing how to make stringer, weave, overlapping beads, and fillet welds. SMAW – Groove Welds with Backing introducing procedures for making flat, horizontal, vertical, and overhead groove welds. SMAW – Open-Root Groove Welds showing techniques required to produce various open V-groove welds. We also teach how to clean and prepare all types of base metals for cutting or welding, all while identifying the codes that govern welding.

Pre-Requisites: At least 6 high school credits, including 1 Math credit
2.0 GPA or equivalent standardized test scores

WD20 Welding II

1 Semester

Students learn how to read welding symbols on drawings, specifications, and Welding Procedure Specifications (WPS). Identifies and explains welding detail drawings. Describes lines, fills, object views, and dimensioning on drawings. Explains how to use notes on drawings and the bill of materials. Explains how to sketch and draw basic welding drawings. Identifies the various standard metal forms and structural shapes. Shows how to extract metal information from Welding Procedure Specification (WPS) sheets and Procedure Qualification Records (PQRs).

Explains preheating, interpass temperature control, and post heating procedures that sometimes need to be done to preserve weldment strength, ductility, and weld quality. Covers the setup of GTAW equipment. GTAW fillet welds on carbon steel plate coupons in the 1F, 2F, 3F, and 4F positions, and how to make GTAW V-groove welds in the 1G, 2G, 3G, and 4G positions. Explains how to set up SMAW equipment for open-root V-groove welds, and explains how to prepare for and make open-root V-groove welds on carbon steel pipe. Describes general safety procedures for GMAW and FCAW. Identifies GMAW and FCAW equipment and explains the filler metals and shielding gases used to perform GMAW and FCAW.

Pre-Requisites: WD10

WD25 Welding III

2 Semesters

Provides procedures for making open-root V-groove welds with GMAW equipment on pipe in the 1G-ROTATED, 2G, 5G, and 6G positions, FCAW equipment on pipe in the 1G-ROTATED, 2G, 5G, and 6G positions, GTAW equipment on pipe in the 2G, 5G, and 6G positions, GTAW equipment on low-alloy and stainless steel pipe in the 2G, 5G, and 6G positions. Explains stainless steel metallurgy; how to select SMAW electrodes for stainless steel welds; and how to weld different types of stainless steels. Covers safety issues associated with welding on stainless steels; how to prepare weld coupons; and how to set up SMAW equipment for welding stainless steel. Provides procedures for making openroot V-groove welds with SMAW equipment on stainless steel plate in the 1G, 2G, 3G, and 4G positions. Includes procedures for making open-root V-groove welds with SMAW equipment on stainless steel pipe in the 1G- ROTATED, 2G, 5G, and 6G positions.

Pre-Requisites: WD10, WD20

COMMUNICATION MEDIA TECHNOLOGIES

3D ANIMATION

DA10 3D Animation I

1 Semester

This course will introduce students to a range of skills and techniques used in the 3D animation and game art, focusing on creating finished, high-quality sequences for use in markets such as previsualization, film and broadcasting and video games. The course will cover technical processes of using the software and creative experimentation with the computer as the primary tool.

During this section the student will gain essential traditional art skills as well as basic knowledge of modeling, texturing, lighting, animation, virtual cinematography, and rendering. The first 4-6 weeks will be dedicated to drawing and the elements and principles of art as well as basic skills in Photoshop. Projects will be completed both digitally and on paper. Students will then move on to creating in the 3D environment. Students will complete tutorials that will introduce techniques in each area of the production pipeline before creating their own projects. The primary software used in the it this course is Autodesk Maya, as well as Adobe Photoshop and Premiere Pro.

Please note: Dual enrollment for college credits is available.

Pre-Requisites: At least 6 high school credits, including 1 Math credit and 1 English credit
2.0 GPA or equivalent standardized test scores

DA20 3D Animation II

1 Semester

This course will introduce students to all aspects of character creation and animation in the 3D environment. Students will build characters, texture, rig and animate them and make them walk, talk, and dance. Students will complete tutorials that will introduce techniques in each area of the production pipeline before creating their own projects. The primary software used in this course is Autodesk Maya, as well as Adobe Photoshop and Premiere Pro.

Please note: Dual enrollment for college credits is available.

Pre-Requisites: DA10

COMMUNICATION MEDIA TECHNOLOGIES

DA30 3D Animation III

2 Semesters

During the first half of this section, students will expand on their previous knowledge of modeling, texturing, lighting, rendering, and character design and animation, as well as creating believable motion and establishing mood in a scene. Students will also learn digital sculpting and 3D printing, anatomy for characters and environment art. Students will compete tutorials that will introduce techniques in each area of the production pipeline before creating their own projects.

The second half of the course students will learn compositing and editing techniques, and create visual effects using dynamic simulations. Students will also study animation history as well as professional practices and digital portfolio creation projects. The primary software used in the course is Autodesk Maya, Pixologic Zbrush, as well as Adobe Photoshop and Premiere Pro.

Please note: Dual enrollment for college credits is available.

Pre-Requisites: DA10 & DA20

DIGITAL PHOTOGRAPHY

MM02 Digital Photography I (FH Campus)

2 Semesters

Photography 1 is a program that prepares students interested in starting their own photography business or pursuing a career in a digital photography related field. Students will be challenged to utilize the latest digital photographic cameras and manipulate light, shadow, and surrounding objects to capture images. Students use Adobe Lightroom, Adobe Photoshop, and Adobe Illustrator to manipulate the images in unique and creative formats. Students work both individually and in teams to create layouts, portfolios, projects, etc. Students can receive their Adobe Certified Associate (ACA) in Photoshop.

Pre-Requisites: At least 6 high school credits, including 1 Math & 1 English credit: all 'C' or better
2.0 GPA or equivalent standardized test scores

MM03 Digital Photography II (FH Campus)

2 Semesters

This is a project-intense course that builds upon the knowledge and skills gained in Photography 1. New concepts of lighting, color, composition and design will be applied to such fields as portraiture, photojournalism, still life product shooting and graphic design. Lighting techniques are taught in detail including studio electronic flash lighting, color gels, and continuous lighting. The working methods of the professional photographer are explored in preparation for real world applications.

Pre-Requisites: MM02

GRAPHIC/WEB DESIGN

MM30 Graphic/Web Design I

1 Semester

This course will prepare students interested in pursuing graphic/web design and digital photography through multimedia related fields. Students will be challenged to learn the graphic design principles; line, shape, pattern, form and color theory. As well as, typography, digital photography, digital Pre-Press, and 2D animation. Students will use Adobe Illustrator, Lightroom, Photoshop, Animate, InDesign and DSLR Cameras to manipulate images in unique and creative formats and develop commercial art-related specification sheets for assignments, social media applications and client-based projects.

Please note: Dual enrollment for college credits is available.

Pre-Requisites: At least 6 high school credits, including 1 Math & 1 English credit: all 'C' or better
2.0 GPA or equivalent standardized test scores

MM35 Graphic/Web Design II

1 Semester

This course will prepare students by learning traditional coding in HTML, CSS, Java scripting and the basics of the Internet as it pertains to visual communications and web page design. Web optimization and web page marketing techniques will be shared, along with Adobe Dreamweaver and third party drop and drag web based software for developing successful web construction. Students work individually and in teams to learn how to build digital portfolios and resumes for real-world application. Students may also be eligible for an in-class internship with EVIT's Digital Print Studio.

Please note: Dual enrollment for college credits is available.

Pre-Requisites: MM30

MM40 Graphic/Web Design III

2 Semesters

This program will build the students intermediate and professional skills in the visual communication and media marketing industries. Through a hands on approach and real world client based projects, students will be working on advanced assignments, client projects and industry techniques. As well as, using conceptualization, time management and various industry standards to strengthen their knowledge for the industry workplace. Students will use their prior knowledge from Multimedia to develop and create super compositions that are ready for the final stage of presentation via critiques and client review.

Please note: Dual enrollment for college credits is available.

Pre-Requisites: MM30 & MM35

COMMUNICATION MEDIA TECHNOLOGIES**RADIO/AUDIO PRODUCTION****RB10 Radio/Audio Production I 1 Semester**

EVIT's Radio/Audio Production program is home to KPNG, 88.7 FM, The Pulse & KVIT, 90.7 FM, Neon Radio, two fully functioning non-commercial radio stations, as well as a state of the art digital recording studio. Both radio stations feature long and short form student-produced programming and commercial-free music. The students also work on the stations' websites, develop apps, apply social media and assist with market research. Students also have the option to focus on sports broadcasting, as EVIT Radio airs high school football, basketball and baseball/softball games during the school year all throughout the East Valley. Students can train to be play-by-play announcers, analysts & even on-site live sound engineers. This course introduces students to commercial & promo production, music production, Pro Tools editing software, news & sports writing, radio show preparation and marketing/promotions.

Please note: Dual enrollment for college credits is available.

Pre-Requisites: At least 6 high school credits, including 1 English credit: 'C' or better
2.0 GPA or equivalent standardized test scores

RB20 Radio/Audio Production II 1 Semester

This course focuses on advanced studies of audio/music production, Pro Tools, news & sports broadcasting and radio show production. It also introduces students to music business, while also covering career preparation and PSA production. Additional digital editing software is also utilized, including Logic & FL Studio. Students also study and test for their Radio Operators Certification, endorsed by the Society of Broadcast Engineers.

Please note: Dual enrollment for college credits is available.

Pre-Requisites: RB10

RB 30 Radio/Audio Production III 2 Semesters

This course provides students with the opportunity to act as staff members of the radio stations, including filling student director positions that mirror those of the professional radio industry. Students can also choose to host a regularly scheduled on-air radio show or hone their sports broadcasting skills by calling high school sporting events throughout the school year. The course also allows students to branch off into specific areas of audio and music production, including conducting a studio session with bands, creating music in digital editing software and producing most of the audio that is utilized on the two radio stations. RB30 also includes advanced studies in music business and live sound, and provides opportunities for students to serve as on-site live sound engineers during the sports broadcasts. Students who successfully complete this course may receive a state CTE certification in Music/Audio Production.

Please note: Dual enrollment for college credits is available.

Pre-Requisites: RB10 & RB20

VIDEO PRODUCTION**TV10 Video Production I 1 Semester**

The EVIT Video Production Program is where students can develop an understanding of the production and development of video and film. Students are instructed in camera, lighting, and sound, as well as pre-production and scheduling. Students will receive considerable training and experience in non-linear editing primarily using Adobe Premiere. Students will also be introduced to the function and logistics of the film and video production industries, and informed and trained on seeking a career in those fields.

Please note: Dual Enrollment for college credits is available.

Pre-Requisites: At least 6 high school credits, including 1 Math & 1 English credit: all 'C' or better
2.0 GPA or equivalent standardized test scores

TV20 Video Production II 1 Semester

This course gives students the opportunity to focus on the skill sets and professions they've shown interest and affinity for, as well as learn the logistics of specialized sections of the production industry, such as advertising, news production, and copyright law.

Please note: Dual Enrollment for college credits is available.

Pre-Requisites: TV10

TV30 Video Production III 2 Semesters

This course focuses on application and mastery of the skills learned in course 1, and students are given many opportunities to create high quality video projects using class resources. Students are also introduced to film history and theory, as well as industry standards in terms of resources and logistics. Students also study and test for certification in the latest version of Adobe Premiere.

Please note: Dual Enrollment for college credits is available.

Pre-Requisites: TV10 & TV20

EDUCATION AND TRAINING**EARLY CHILDHOOD EDUCATION****CC10 Early Childhood Education I 1 Semester**

Gain hands-on experience in an on-site lab school, operated by Bright Ideas Preschool, while learning how to interact with young children and facilitate developmentally-appropriate activities. Students will focus on early childhood philosophy, childhood development, career opportunities and current issues in safety, health, nutrition and curriculum development.

Please note: Dual enrollment for college credits is available. Students must obtain a Fingerprint Clearance card at age 18.

Pre-Requisites: At least 6 high school credits, including Pre-Algebra: 'C' or better and English: 'B' or better
2.0 GPA or equivalent standardized test scores
Negative Tuberculosis test (all students tested in class in August)
No criminal record (Arizona State Law requires students to sign a criminal history verification form)

CC20 Early Childhood Education II 1 Semester

Students continue advanced studies in child psychology & development. They continue to learn how to create developmentally appropriate lesson plans, classroom management & discipline techniques. Students will continue to receive hands-on experience working with our on-site school and surrounding head start programs.

Please note: Dual enrollment for college credits is available. Students must obtain a Fingerprint Clearance card at age 18.

Pre-Requisites: CS10

CC25 Early Childhood Education III 2 Semesters

Students continue advanced studies in child psychology & development. They write and deliver lesson plans with our on-site preschool or surrounding area head starts. Students are assigned/apply for internship opportunities during the second half of the school year. Students that qualify may select the opportunity to earn their Child Development Associate (CDA) national certification upon completion of this program and the necessary requirements.

Please note: Dual enrollment for college credits is available. Students must obtain a Fingerprint Clearance card at age 18.

Pre-Requisites: CS20

ENGINEERING SCIENCES**FUTURE ENGINEERS****IT60 Future Engineers I 1 Semester**

This is a project based course that will allow students to discover the tools and technologies engineers use to design and build using math and science coupled with their ingenuity. They will be introduced to the field of Engineering through the use of lecture, lab work, guest speakers and visits to industry. The course is built on understanding the relevancy and application of mathematics, science, and technology to solve engineering problems surrounding the disciplines of Civil, Electrical, Mechanical, Chemical, Environmental, Biomedical Engineering and Engineering Technology.

Pre-Requisites: 6 high school credits, including 1 Science credit: 'B' or better, 1 English credit: 'C' or better, 1 Advanced Algebra credit: 'C' or better, and concurrent enrollment in another Math course On track for graduation
2.5 GPA or equivalent standardized test scores

IT61/IT62 Future Engineers II/III 1 Semester (2 quarters: Q3/Q4)

Students will continue to solve problems, design and build; using tools & technologies of the trade. The students will also be introduced to Manufacturing Technology and programming skills, including CAD, EXCEL and 3D printing.

Pre-Requisites: IT60

IT63 Future Engineers IV (capstone) 2 Semesters

This is a project based course culminating in a capstone project. Students will design, develop and construct their project.

Pre-Requisites: IT62

MACHINING TECHNOLOGY**MT10 Machining Technology I 1 Semester**

The Precision Machining program is designed to introduce students to basic precision manufacturing and advanced machining principles and technical skills. Upon program completion students will be prepared in the following instructional areas: manufacturing systems, production planning, information systems, quality control, documentation, technical problem solving, management, predictive/preventive maintenance, and automated manufacturing. Students will have the opportunity to earn industry-recognized certifications such as NCCER Level 1 and MSSC Level 1 which can lead to the Certified Production Technician (CPT) certification, NIMS Level 1 certification, or ASQ quality certification. The program is comprised of two core courses and a specific course in Computer Numeric Control (CNC) Precision Machining. The program uses a delivery system made up of four integral parts: formal/technical instruction, experiential learning, supervised occupational experience, and the Career and Technical Student Organization, SkillsUSA.

Pre-Requisites: At least 6 high school credits, including 1 Math credit 'C' or better
2.0 GPA or equivalent standardized test scores

ENGINEERING SCIENCES**MT20/30 Machining Technology II****1 Semester (2 quarters: Q3/Q4)**

Advanced studies in precision manufacturing and advanced machining principles and technical skills. Completion of level 1 NIMS certifications in manual milling, manual Lathe operations, and Safety, maintenance and materials

Pre-Requisites: MT10**MT35 Machining Technology III****2 Semesters**

Continuation of advanced studies in advanced machining principles and technical skills in CNC programming, set up and operation. Production planning and Quality control and Inspection. Students will complete certification testing.

Pre-Requisites: MT30**FINANCE****BANKING AND FINANCIAL SERVICES****BK10 Banking and Financial Services I****1 Semester**

Prepare for a career in the banking industry, working in a bank branch, credit union and potentially as a bank executive. Students will learn the back-end and front-end operation of a bank or a credit union branch. Students will learn to analyze customer profiles and to sell bank products. The course includes both an in-class academic component, as well as a hands-on experience that includes the operation of an actual credit union branch under the supervision of banking professionals.

Pre-Requisites: At least 6 high school credits, including 2 Math and 1 English credit
2.0 GPA or equivalent standardized test scores**BK20 Banking and Financial Services II****1 Semester**

Students continue learning valuable finance tools and customer service protocols while completing an internship. Student will spend two days a week working at a local bank and/or credit union and the others days in the academic classroom.

Pre-Requisites: Successful completion of BK10**INFORMATION TECHNOLOGIES****NETWORKING ACADEMY & CYBER SECURITY****IT12 Introduction to Networking & Cyber Security****1 Semester**

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced. Students will build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. They will also learn architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. Configuration and troubleshooting routers and switches and resolving common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. Preparation for Cisco CCNA certification examination.

Please note: 8 Dual Enrollment for college credits is available**Pre-Requisites:** At least 6 high school credits, including 1 Math & 1 English credit: all 'C' or better
2.0 GPA or equivalent standardized test scores**IT20 Networking Academy & Cyber Security****1 Semester**

This course continues with studies in the architecture, components, and operations of routers and switches in large and complex networks. Configuring routers and switches for advanced functionality. Configuring and troubleshooting routers and switches and resolving common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks.

Developing the knowledge and skills needed to implement a WLAN in a small-to-medium network Wide Area Network (WAN) technologies and network services required by converged applications in a complex network. Criteria selection of network devices and WAN technologies to meet network requirements. Configuring and troubleshooting network devices, and resolving common issues with data link protocols issues, and developing the knowledge and skills needed to implement Internet Protocol Security (IPSec) and Virtual Private Network (VPN) operations. Preparation for Cisco CCNA certification examination.

Please note: 8 Dual Enrollment for college credits is available**Pre-Requisites:** IT12**IT22 Cyber Security I****1 Semester**

The CompTIA Security+ certification is a vendor-neutral credential. The CompTIA Security+ exam is an internationally recognized validation of foundation-level security skills and knowledge, and is used by organizations and security professionals around the globe. The CompTIA Security+ exam will certify the successful candidate has the knowledge and skills required to install and configure systems to secure applications, networks, and devices; perform threat analysis and respond with appropriate mitigation techniques; participate in risk mitigation activities; and operate with an awareness of applicable policies, laws, and regulations. The successful candidate will perform these tasks to support the principles of confidentiality, integrity, and availability. This course will build a foundation necessary for the development of a career as a security professional. The student will be expected to perform research, actively participate in a collaborative environment, learn and use Linux skills, understand Networking principles, as well as learn and implement Security Best Practices.

This course will focus on the following topics: Technologies and Tools, Architecture and Design, Identity and Access Management, Risk Management. Additionally, this course will build a foundation for Linux System proficiency. Students will learn and employ security research method and procedures in order to create their cyber security threat picture awareness.

Please note: Dual Enrollment for college credits is available**Pre-Requisites:** IT20 or networking course from home school (or instructor approval)

INFORMATION TECHNOLOGIES

IT23 Cyber Security II 1 Semester

The CompTIA Security+ certification is a vendor-neutral credential. The CompTIA Security+ exam is an internationally recognized validation of foundation-level security skills and knowledge, and is used by organizations and security professionals around the globe. The CompTIA Security+ exam will certify the successful candidate has the knowledge and skills required to install and configure systems to secure applications, networks, and devices; perform threat analysis and respond with appropriate mitigation techniques; participate in risk mitigation activities; and operate with an awareness of applicable policies, laws, and regulations. The successful candidate will perform these tasks to support the principles of confidentiality, integrity, and availability. This course will build a foundation necessary for the development of a career as a security professional. The student will be expected to perform research, actively participate in a collaborative environment, learn and use Linux skills, understand Networking principles, as well as learn and implement Security Best Practices.

This course will focus on the following topics: Threats, Attacks and Vulnerabilities, Identity and Access Management, Cryptography and PKI. Additionally, this course will build upon the Linux training provided in the First Semester Course with an emphasis on Security and Penetration Testing Tools. Students will be tasks to employ security research skillset to build upon their cyber security threat picture awareness.

Pre-Requisites: IT22

CODING AND MOBILE APPLICATION DESIGN

IT13 Introduction to Computer Programming and Coding 1 Semester First

Semester Coding students will be able to identify and explain computer components and operations, explain the software development life cycle, use the American Standard Code for Information Interchange. (ASCII) and Unicode Consortium code, perform computations using decimal, binary, octal, and hexadecimal number systems, design console and graphical user interfaces and reports, design programs using structured and object-oriented design tools, design and write programs using the various control structures, explain structured programming techniques, and describe how they are embodied in object-oriented programming techniques and differentiate between procedural, object-oriented, and event-driven programming.

Please note: Dual Enrollment for college credits is available.

Pre-Requisites: At least 6 high school credits, including 1 Science credit: 'C' or better, 1 Algebra credit: 'C' or better, 1 Geometry credit: 'C' or better, 1 English credit: 'C' or better
2.0 GPA or equivalent standardized test scores

IT40 Computer Program Coding and Mobile Application Design I 1 Semester

Second semester coding students will use OOP features to design and write programs using arrays, use OOP features to design and write classes that have public and private properties and behaviors including constructors and destructors, use OOP features to design and write programs that create and manipulate objects, explain method overloading and overriding and explain the principles of single and multiple inheritances in object oriented programming. Students will take certification exam for C#

Pre-Requisites: IT13

IT45 Computer Program Coding and Mobile Application Design II 2 Semesters

Year 2 Coding students will be able to explain the evolution of C# and basic computer components, describe the software development process, use predefined data types to declare and manipulate variables and arrays, use operators in arithmetic and Boolean expressions, design and develop object-oriented programs using various flow control structures and functions, describe object-oriented concepts, design and develop programs using classes and object-oriented programming techniques, process various input and output, debug simple and complex programming errors, use standard pre-processor commands and create graphical applications. Students will take certification exam for Python.

Pre-Requisites: IT40

DIGITAL DEVICE DIAGNOSTIC AND REPAIR

IT11 Introduction to Digital Device Diagnostic and Repair 1 Semester

Learn the skills necessary to obtain ComTIA A+ Certification, an International industry credential for computer service technicians. Hands-on classroom training includes installation, configuration and upgrading of hardware and software. They develop troubleshooting and basic network skills. Course includes training in Microsoft Office. Students also learn how to repair devices such as iPad, iPhones, gaming consoles and many more. Students participate in SkillsUSA and Arizona Students Recycling Used Technology (AZstRUT), which teaches valuable skills and provides quality refurbished computers to schools and non-profit organizations across Arizona.

Please note: Dual Enrollment for college credits is available.

Pre-Requisites: At least 6 high school credits, including 1 Math & 1 English credit: all 'C' or better
2.0 GPA or equivalent standardized test scores

IT30 Digital Device Diagnostic and Repair I 1 Semester

Continue to learn the skills necessary to obtain ComTIA A+ Certification, an International industry credential for computer service technicians. Hands-on classroom training includes installation, configuration and upgrading of hardware and software. They develop troubleshooting and basic network skills. Course includes training in Microsoft Office. Students also learn how to repair devices such as iPad, iPhones, gaming consoles and many more. Students participate in SkillsUSA and Arizona Students Recycling Used Technology (AZstRUT), which teaches valuable skills and provides quality refurbished computers to schools and non-profit organizations across Arizona.

Please note: Dual Enrollment for college credits is available.

Pre-Requisites: IT11

INFORMATION TECHNOLOGIES

IT35 **Digital Device Diagnostic and Repair II** **2 Semesters**

D3R: Perfect the skills learned in Intro to D3R. In this course you will put into practice the knowledge you gained in the previous year by running the iTec store and performing tech support and repairs for the public. Students in course will also act as mentors to the first year students. By the end of this course you will complete the CompTIA A+ certification exam.

Please note: Dual Enrollment for college credits is available.

Pre-Requisites: IT30

FAMILY AND CONSUMER SCIENCES

COMMERCIAL BAKING AND PASTRY ARTS

CU20 **Commercial Baking and Pastry Arts I** **1 Semester**

Introduction to working in a professional bakery. Students will learn equipment and ingredient identification, as well as the basic mixing methods. Cake construction and decorating will also be introduced. Emphasis is placed on working neatly and efficiently.

Please note: Dual Enrollment available through Scottsdale Community College, ServSafe Food Service Manager, ACF Certification, Certified Fundamentals Pastry Cook (CFPC®) during program

Pre-Requisites: At least 6 high school credits, including 1 Math credit 'C' or better
2.0 GPA or equivalent standardized test scores

CU25 **Commercial Baking and Pastry Arts II** **1 Semester**

Course 2 is a continuation of Course 1. Production is increased, and students are expected to learn to incorporate time management. Students will work on more advanced decorating projects, such as wedding and fondant cakes.

Students will also work more on plated desserts and customer orders.

Pre-Requisites: CU20

CU26 **Commercial Baking and Pastry Arts III** **2 Semesters**

Second year students will work on a variety of different projects, including a survey of breads from around the world, specific cake projects, and themed holiday desserts. Students in Course 3 will also have the opportunity to develop their own plated desserts. Mentoring and leadership are also a part of this course.

Pre-Requisites: CU25

CULINARY ARTS

CU10 **Culinary Arts I** **1 Semester**

Students develop skills necessary for food preparation, food production, and service in a commercial kitchen. The course includes instruction in basic baking & pastry, basic nutrition, food safety, sanitation, and the use & care of commercial equipment.

Please note Dual Enrollment available through Scottsdale Community College: Certificate of Completion in Culinary Fundamentals, ServSafe Food Service Manager, ACF Certification, Certified Fundamentals Cook (CFC®) during program

Pre-Requisites: At least 6 high school credits, including 1 Math credit 'C' or better
2.0 GPA or equivalent standardized test scores

CU15 **Culinary Arts II** **1 Semester**

The course includes instruction in garde manger, breakfast foods, basic baking & pastry, basic nutrition, food safety, sanitation, and the use & care of commercial equipment.

Please note Dual Enrollment available through Scottsdale Community College: Certificate of Completion in Culinary Fundamentals, ServSafe Food Service Manager, ACF Certification, Certified Fundamentals Cook (CFC®) during program

Pre-Requisites: CU10

CU16 **Culinary Arts III** **2 Semesters**

Students will then learn advanced techniques in food preparation skills, organization & operations, sanitation, quality control, and advanced use of commercial kitchen equipment while working in a culinary specialty.

Please note Dual Enrollment available through Scottsdale Community College: Certificate of Completion in Culinary Fundamentals, ServSafe Food Service Manager, ACF Certification, Certified Fundamentals Cook (CFC®) during program

Pre-Requisites: CU15

FASHION DESIGN AND MERCHANDISING

FIT11 **Fashion Design and Merchandising I** **1 Semester**

This dynamic program introduces students to the technical knowledge and skills needed to design, produce, purchase, promote and sell merchandise and accessories Fashion I includes the study of careers, the history of design, and the principles and elements of design. Students will receive an introduction to fashion design, including garment design & construction, illustration techniques, and basics of patternmaking & draping.

Please note: Dual Enrollment for college credits is available.

Pre-Requisites: At least 6 high school credits, including 1 Math & 1 English credit: all 'C' or better
2.0 GPA or equivalent standardized test scores

FAMILY AND CONSUMER SCIENCES

FIT13 Fashion Design and Merchandising II 1 Semester

In Fashion II, students expand upon material introduced in Course I, specifically: The Design Method, garment design & construction, illustration techniques, and the fundamentals of patternmaking & draping. Additionally, students will study retail merchandising, textile science, and methods for printing/dyeing (textiles). Students will apply their acquired knowledge from Course I & II by producing a complete collection (as a class) and fashion runway show.

Please note: Dual Enrollment for college credits is available.

Pre-Requisites: FIT11

FIT 25 Fashion Design and Merchandising III 2 Semesters

Fashion III will incorporate the 1st year knowledge into the advanced program and gain knowledge in personal styling, clothing construction, and inspirational design concepts. In this program students will also be able to coordinate fashion shows, fashion photo shoots, and fashion journalism. Students will prepare for FCCLA Spring Competition.

A student completing this program will possess the technical knowledge and skills associated with fashion design, textiles, merchandising, presentation, and sales. In addition to the technical skills, students will possess advanced employability skills including critical and conceptual thinking skills, applied academics, life management, and technology. Students will create a portfolio of their work, will prepare a resume and be trained to have the skills necessary to enter the workplace.

Please note: Dual Enrollment for college credits is available.

Pre-Requisites: FIT13

HOSPITALITY MANAGEMENT

HM10 Hospitality Management I 1 Semester

Students will learn the principles of operations in the travel and tourism industries, hotel and lodging facilities, food services, recreation, hospitality planning and business operations.

Pre-Requisites: At least 6 high school credits, including 1 Math credit 'C' or better
2.0 GPA or equivalent standardized test scores

HM20 Hospitality Management II 1 Semester

Students will apply the principles of operations in the travel and tourism industries, hotel and lodging facilities, food services, recreation, hospitality planning and business operations while focusing on human resource management, entrepreneurship, financial management, and marketing.

Please note: Dual Enrollment with SCC, Serve Safe Food Service Manager Card, American Hotel and Motel Lodging Association:

- **Certified Guest Service Professional (CGSP®)**
- **Certified Front Desk Representative**
- **Certified Restaurant Server**

Pre-Requisites: HM10

INTERIOR DESIGN AND MERCHANDISING

FIT12 Interior Design and Merchandising I 1 Semester

This dynamic program introduces students to the technical knowledge and skills needed to design, produce, purchase, promote and sell merchandise and accessories. Interior Design and Merchandising I course will introduce students to the various careers available in the interior design industry. Students will have opportunity to meet current interior designers in order to gain insight into their profession. The course will provide a foundation of fundamentals required for interior design including color theory and design, the elements and principals of design, textile science, textile design, as well as the history of architecture. Students will learn basic floor space planning, elevations, and measurements in interior design and practice presenting their projects in class to develop good communication skills.

Please note: Dual Enrollment for college credits is available.

Pre-Requisites: At least 6 high school credits, including 1 Math & 1 English credit: all 'C' or better
2.0 GPA or equivalent standardized test scores

FIT14 Interior Design and Merchandising II 1 Semester

Interior Design and Merchandising II continues to provide fundamentals with advanced training in color theory, critical thinking in design, advanced floor space planning and 3D model construction. Students will learn such as business and merchandising in the interior industry. Students may have the opportunity to compete in FCCLA Spring Conference.

Please note: Dual Enrollment for college credits is available.

Pre-Requisites: FIT12

FIT35 Interior Design and Merchandising III 2 Semesters

Interior Design and Merchandising III course will provide a practice of the fundamentals learned during the first year. Students will learn how to design and layout larger visual interior presentations combining floor plans, elevations and furnishings selections. As they develop presentations, students will study lighting, flooring materials, window treatments and other furnishings. Students will develop a budget and learn how to create an invoice. These students will also be trained on the 3D Chief Architect program in order to prepare for certification. Students will compete in the FCCLA Spring Conference for interior design. Students may also have opportunities to job shadow or participate in an internship in an interior related business. Students will also develop a portfolio of their work from the program and will interview and present this to industry professionals during the Annual FIT Career Day.

Please note: Dual Enrollment for college credits is available.

Pre-Requisites: FIT14

HUMAN SERVICES**AESTHETICS****CS14 & CS24 Aesthetics I & II****2 Semester**

The Aesthetics program is a one-year high school program that offers training in the theory and practice of aesthetics. It meets and exceeds the requirements for licensing by the State Board of Arizona. The class emphasizes the structure and function of the skin and prepares students to critically access the individual needs of each client. Instruction includes comprehensive instruction in European and other Specialty facials, Microdermabrasion, Microcurrent, LED Light Therapy, Aroma Therapy, Hair Removal and many other services. Students learn to identify and either treat or refer out skin diseases and disorders through a foundation in Skin Analysis as well as Anatomy and physiology and Product Ingredient classes. During this course, students have the opportunity to gain Certifications in PCA Chemical peel, Dermaplane and Lash Extension. Upon completion this class, graduates are fully ready for employment in any number of professional environments.

Please note: Students attend class four (4) hours each day and may be required to provide their own transportation. Class times 7:00 AM – 11:00 AM or 12:00 PM – 4:00 PM

Pre-Requisites: At least 10 high school credits, including 2 English credits.
2.0 GPA or equivalent standardized test scores

BARBERING**CS15 Barbering I****1 Semester**

Introduction to Barbering is a two year, four credit course of four hours per day that provides students with a study of concepts related to the Barbering profession. Specific topics include Barbering history and opportunities, professional image, infection control, and basic fundamentals and principles of hair care and design. Students also gain initial practical experience in sanitation, shampooing, hair shaping, and hairstyling. Upon successful completion of this course, students are able to practice safety and sanitary precautions as they perform basic Barbering procedures.

Introduction to Barbering is the prerequisite to Chemical Services, Hair Coloring, Salon Practices and Management, and State Board Practicum. Career and technical student organizations are integral, co-curricular components of each career and technical education course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth.

Please note: Students attend class four (4) hours each day and may be required to provide their own transportation. Requirements: Proof of age. Social security card or waiver. Signed statement of understanding of program requirements. Class is four-hour day, Monday through Friday and requires a total of 1500 hours to complete the program and test for state license.

Pre-Requisites: At least 10 high school credits, including 2 English credits.
2.0 GPA or equivalent standardized test scores

CS25 Barbering II**1 Semester**

Advanced studies in barbering history and opportunities, professional image, infection control, and basic fundamentals and principles of hair care and design. Students also gain initial practical experience in sanitation, shampooing, hair shaping, and hairstyling. Continued participation and competition in our state-wide student organization. Students begin client work in our student run barber shop.

Pre-Requisites: CS15

CS35 Barbering III**2 Semesters**

This course focuses on advanced studies of practical skills in haircutting, skin care, wet shaving and beard shaping techniques, chemical services, styling and State board procedures and deeper preparation for working behind the chair and or barber shop related business skills. Continued work on clients in our student run barber shop.

Please note: Students are entered into the State Board examination at the Instructors discretion and upon completion of state requirements.

Pre-Requisites: CS25

COSMETOLOGY**CS10, CS20, CS31 Cosmetology Fundamentals I & II & III****2 Year Program (4 semesters)**

This 2-year high school program prepares the student for the Arizona State Board of Cosmetology License Exam. By the time this class is complete the student will be fully prepared to seek a fun, high paying career in salons, spas, film or a number of other exciting work environments. The focus of education is balanced between 4 hours of theory and hands-on class time daily. Students learn in-depth about the fundamentals of hairstyling, haircutting, hair color and various chemical texture services. Second-year students provide services to the public in a working salon on an EVIT Campus which provides invaluable experience including customer service and other soft skills the work world will require. This course also includes advanced education to further develop salon ready skills through industry partnerships. Hairstyling is an exciting career choice that offers on-going education, highly flexible work hours to help you pursue whatever dreams you have!

Please note: Students attend class four (4) hours each day and may be required to provide their own transportation. 7:00 AM – 11:00 AM or 12:00 PM – 4:00 PM. Dual enrollment may be available for college credit.

Pre-Requisites: At least 10 high school credits, including 2 English credits.
2.0 GPA or equivalent standardized test scores

HEALTH SCIENCE TECHNOLOGIES**BEHAVIORAL, MENTAL & SOCIAL HEALTH SERVICES****MC65 Behavioral, Mental & Social Health Services I****1 Semester**

This course will prepare students for a career in behavioral and/or social health as a behavioral or mental health technician/specialist. This training can lead to job opportunities as a case manager, parent aide, family advocate, respite worker or paraprofessional counselor. Mental health technicians may work as part of a team. There are job opportunities in public and private hospitals, treatment centers, clinics, assisted living facilities, schools and more.

Duties may include coordinating mental health services, client interviews, documentation, group activities, maintaining client safety as well as helping clients with their personal needs. Will work with clients to promote dignity, independence, individuality, strengths, privacy and choice. During the first semester students will learn about foundations in past & present mental health care and treatment, building client rapport, communication, documentation, cultural diversity, therapeutic skills for technicians, and ethics & legal issues. Students will be required to participate in externships in the community.

Please note: Students may be randomly drug tested. Dual enrollment may be available for college credit.

Pre-Requisites: At least 6 high school credits, including 1 Math & 1 English credit: all 'C' or better
2.0 GPA or equivalent standardized test scores

MC66 Behavioral, Mental & Social Health Services II**1 Semester**

This course will build on knowledge students gained MC65. In MC66 students learn about chronic mental health disorders, crisis intervention/de-escalation techniques, psychotherapeutic drugs, alternative/complementary therapies, autism, dementia and resilience. Students will have the opportunity to earn certificates in Article 9 Training, ASIST Training and Psychological First Aid. Students will be required to participate in externships in the community.

Please note: Students may be randomly drug tested. Dual enrollment may be available for college credit.

Pre-Requisites: MC65

DENTAL**MC10 Anatomy and Physiology for Medical Careers****2 Semesters**

This course is designed for students interested in any health-related field and is required for students interested in advanced training in many second-year medical programs at EVIT (see pre-requisites for other programs). Study anatomy, physiology, medical terminology, nutrition, human growth and development, human diseases, infection control and human reproduction using a hands-on, project-based approach. Collaborative lab work and dissections are also an integral part of this course. Students participate in HOSA, a student organization that promotes career opportunities in the health care industry and enhances the delivery of quality health care to all people.

Please note: History of drug abuse may limit career opportunities. This course has been approved as a lab science credit worthy course by the Arizona Department of Education, please check with your district to verify they approve this course as a lab science towards graduation. Dual enrollment credit may be available.

Pre-Requisites: At least 6 high school credits, including 1 Math credit and 1 English credit: both 'C' or better Biology (may be taken concurrently)
2.0 GPA or equivalent standardized test scores

MC60 Dental Assisting I**1 Semester**

Prepare for a dental career by learning about dental office operations such as instrument recognition and sterilization, radiography and laboratory processes, preparing patients for examinations and assisting with operational procedures. First semester, students concentrate on classroom learning, hands-on skills practice and x-ray certification. During the second semester, skills and experience are gained through internships at local dental offices. Students are required to complete a 100-hour internship. Flexible hours may be required depending upon clinical availability. Students must provide their own transportation to job shadowing or internship sites. Participation in the Health Occupations Student Organization (HOSA) is a requirement of the course.

Please note: Students will be randomly drug tested.

Pre-Requisites: Seniors Only, who have taken EVIT's MC10 or taken at least 1 credit of Biology or Anatomy & Physiology: 'C' or better
No criminal record
2.0 GPA or equivalent standardized test scores

MC61 Dental Assisting II**1 Semester**

During the second semester, Students will spend 6 weeks studying radiology, and preparing for DANB's national dental x-ray certification exam. Students are required to complete an 80-hour externship where skills and experience are gained through work based learning at local dental offices. Flexible hours may be required depending upon clinical availability. Students must provide their own transportation to externship sites.

Please note: Students will be randomly drug tested.

Pre-Requisites: MC60

HEALTH SCIENCE TECHNOLOGIES

EMERGENCY MEDICAL TECHNICIAN

MC10 Anatomy and Physiology for Medical Careers 2 Semesters

This course is designed for students interested in any health-related field and is required for students interested in advanced training in many second-year medical programs at EVIT (see pre-requisites for other programs). Study anatomy, physiology, medical terminology, nutrition, human growth and development, human diseases, infection control and human reproduction using a hands-on, project-based approach. Collaborative lab work and dissections are also an integral part of this course. Students participate in HOSA, a student organization that promotes career opportunities in the health care industry and enhances the delivery of quality health care to all people.

Please note: History of drug abuse may limit career opportunities. This course has been approved as a lab science credit worthy course by the Arizona Department of Education, please check with your district to verify they approve this course as a lab science towards graduation. Dual enrollment credit may be available.

Pre-Requisites: At least 6 high school credits, including 1 Math credit and 1 English credit: both 'C' or better Biology (may be taken concurrently)
2.0 GPA or equivalent standardized test scores

MC55 Emergency Medical Technician I 1 Semester

People's lives often depend on the quick response and competent care of Emergency Medical Technicians (EMTs). Learn to recognize the signs and symptoms of illness and injury, assess and treat patients, administer oxygen and provide basic medical care. Training consists of coursework and hands-on experience designed to prepare students to administer immediate care, stabilization and immobilization of victims in emergency situations. The first semester will cover mostly medical emergencies. Please note: Students must be 18 years old by November 1 following course completion and a U.S. Citizen or legal resident to take certification exam. DHS requires that students receive course completion certificates within six months of the course. Students are able to complete testing, but they cannot be certified in Arizona until they are 18. EVIT completers who receive an EMT card may receive college credit by evaluation for EMT101 and/or EMT 104. Students will be randomly drug tested.

Pre-Requisites: Seniors Only who have taken EVIT's MC10 or taken at least 1 credit of Biology or Anatomy & Physiology: 'C' or better or 1 year of Sports Medicine
9th grade reading level
1 Algebra credit and 1 English credit: 'C' or better
No criminal record
2.5 GPA or equivalent standardized test scores

MC56 Emergency Medical Technician II 1 Semester

The second semester of Emergency Medical Technician focuses on trauma emergencies. Students will prepare for national skill examination. Every student is required to complete a minimum 10-hour clinical rotation in an emergency room scheduled by the school. Students are responsible for their own transportation. NREMT Psychomotor Skill Exam are conducted at the end of the semester. Upon course completion, students are prepared to take state and national EMT examinations.

Please note: Students must be 18 years old by November 1 following course completion and a U.S. Citizen or legal resident to take certification exam. DHS requires that students receive course completion certificates within six months of the course. Students are able to complete testing, but they cannot be certified in Arizona until they are 18. EVIT completers who receive an EMT card may receive college credit by evaluation for EMT101 and/or EMT 104. Students will be randomly drug tested. Dual enrollment credit may be available.

Pre-Requisites: MC55

HOME HEALTH AIDE

MC10 Anatomy and Physiology for Medical Careers 2 Semesters

This course is designed for students interested in any health-related field and is required for students interested in advanced training in many second-year medical programs at EVIT (see pre-requisites for other programs). Study anatomy, physiology, medical terminology, nutrition, human growth and development, human diseases, infection control and human reproduction using a hands-on, project-based approach. Collaborative lab work and dissections are also an integral part of this course. Students participate in HOSA, a student organization that promotes career opportunities in the health care industry and enhances the delivery of quality health care to all people.

Please note: History of drug abuse may limit career opportunities. This course has been approved as a lab science credit worthy course by the Arizona Department of Education, please check with your district to verify they approve this course as a lab science towards graduation. Dual enrollment credit may be available.

Pre-Requisites: At least 6 high school credits, including 1 Math credit and 1 English credit: both 'C' or better Biology (may be taken concurrently)
2.0 GPA or equivalent standardized test scores

MC77 Home Health Aide I 1 Semester

Home Health Aides, also known as Direct Care Workers (DCW), Personal Care Assistants, Caregivers, or Personal Care Aides, are a valuable part of the health care team. Home Health Aides care for people of all ages who are ill, injured or physically or mentally disabled. Home Health Aides assist clients with self-care activities such as eating, dressing, bathing and grooming needs. Home Health Aides may also help with home management activities such as meal preparation, light house cleaning or laundry.

Pre-Requisites: Seniors only who have taken EVIT's MC10 or taken at least 1 credit of Biology or Anatomy & Physiology
On track to graduate or a plan for graduation
2.0 GPA or equivalent standardized test scores

HEALTH SCIENCE TECHNOLOGIES**MC78 Home Health Aide II****1 Semester**

Students continue learning job management and self-care skills including organizational skills related to the profession. During this semester, students prepare to take the Direct Care Workers test.

Students who complete this program are eligible to take the Arizona Standardized DCW Test to demonstrate that they have the required knowledge and skills to be a qualified DCW.

Pre-Requisites: MC77

MEDICAL ASSISTING**MC10 Anatomy and Physiology for Medical Careers****2 Semesters**

This course is designed for students interested in any health-related field and is required for students interested in advanced training in many second-year medical programs at EVIT (see pre-requisites for other programs). Study anatomy, physiology, medical terminology, nutrition, human growth and development, human diseases, infection control and human reproduction using a hands-on, project-based approach. Collaborative lab work and dissections are also an integral part of this course. Students participate in HOSA, a student organization that promotes career opportunities in the health care industry and enhances the delivery of quality health care to all people.

Please note: History of drug abuse may limit career opportunities. This course has been approved as a lab science credit worthy course by the Arizona Department of Education, please check with your district to verify they approve this course as a lab science towards graduation. Dual enrollment credit may be available.

Pre-Requisites: At least 6 high school credits, including 1 Math credit and 1 English credit: both 'C' or better Biology (may be taken concurrently) 2.0 GPA or equivalent standardized test scores

MC20 or 22 Medical Assistant I**1 Semester**

Medical Assistants are educated and trained to perform administrative and clinical skills in a variety of settings, including doctors' offices, hospitals and clinics. Learn medical terminology, body systems, EKG, phlebotomy, autoclave, CPR and first aid, OSHA safety standards and other medical specialties. Gain an understanding of office procedures such as patient billing, medical records, purchasing and filing of insurance claims. Students do a clinical externship in the second year of the course. Flexible hours may be required depending upon clinical availability.

Student must provide their own transportation to the clinical sites. Upon course completion, students are prepared to take the NHA national certification in Medical Assisting, Phlebotomy and EKG. Students have the option of first completing Human Anatomy and Physiology for Medical Careers (MC10) and then taking the 2.5-hours-per-day Medical Assistant course to complete the program in two years OR the four-hours-per-day one-year Medical Assistant program (MC22/23). Please state which option the student is choosing on the application.

Please note: Students will be randomly drug tested.

Pre-Requisites: 2 Math credits and 2 English credits: all 'C' or better
No criminal record
Biology (may be taken concurrently) EVIT's MC10 for those entering the 2.5-hours-per-day program.
2.0 GPA or equivalent standardized test scores

MC21 or 23 Medical Assistant II**1 Semester**

Students do a clinical externship in the second year of the course. Flexible hours may be required depending upon clinical availability. Students must provide their own transportation to the clinical sites. Upon course completion, students are prepared to take the NHA national certification in Medical Assisting, Phlebotomy and EKG

Pre-Requisites: MC20

NURSING ASSISTANT**MC10 Anatomy and Physiology for Medical Careers****2 Semesters**

This course is designed for students interested in any health-related field and is required for students interested in advanced training in many second-year medical programs at EVIT (see pre-requisites for other programs). Study anatomy, physiology, medical terminology, nutrition, human growth and development, human diseases, infection control and human reproduction using a hands-on, project-based approach. Collaborative lab work and dissections are also an integral part of this course. Students participate in HOSA, a student organization that promotes career opportunities in the health care industry and enhances the delivery of quality health care to all people.

Please note: History of drug abuse may limit career opportunities. This course has been approved as a lab science credit worthy course by the Arizona Department of Education, please check with your district to verify they approve this course as a lab science towards graduation. Dual enrollment credit may be available.

Pre-Requisites: At least 6 high school credits, including 1 Math credit and 1 English credit: both 'C' or better Biology (may be taken concurrently) 2.0 GPA or equivalent standardized test scores

MC30 Nursing Assistant I**1 Semester**

A Nursing Assistant works under the supervision of a nurse to provide daily basic care for patients in hospitals, physician's offices, private homes, clinics and assisted living facilities. First semester, learn CPR, anatomy and physiology, medical terminology, vital signs, hygiene, human reproduction, basic nutrition and patient care.

Please note: Students will be randomly drug tested.

Pre-Requisites: Seniors who have taken EVIT's MC10 or taken at least 1 credit of Biology or Anatomy & Physiology: 'C' or better
No criminal record
2.5 GPA or equivalent standardized test scores

HEALTH SCIENCE TECHNOLOGIES

MC31 Nursing Assistant II

1 Semester

During the second semester, students work in clinical settings to master the skills required for the state certification exam. Flexible hours are required and depend upon the availability of clinical sites. Weekend and/or extended days may be required. Student must provide their own transportation to the clinical sites. The Arizona State Board of Nursing requires proof of legal presence in order to test for or renew certification or licensure.

Pre-Requisites: MC30

OCCUPATIONAL THERAPY AIDE

MC10 Anatomy and Physiology for Medical Careers

2 Semesters

This course is designed for students interested in any health-related field and is required for students interested in advanced training in many second-year medical programs at EVIT (see pre-requisites for other programs). Study anatomy, physiology, medical terminology, nutrition, human growth and development, human diseases, infection control and human reproduction using a hands-on, project-based approach. Collaborative lab work and dissections are also an integral part of this course. Students participate in HOSA, a student organization that promotes career opportunities in the health care industry and enhances the delivery of quality health care to all people.

Please note: History of drug abuse may limit career opportunities. This course has been approved as a lab science credit worthy course by the Arizona Department of Education, please check with your district to verify they approve this course as a lab science towards graduation. Dual enrollment credit may be available.

Pre-Requisites: At least 6 high school credits, including 1 Math credit and 1 English credit: both 'C' or better Biology (may be taken concurrently) 2.0 GPA or equivalent standardized test scores

MC57 Occupational Therapy Aide I

1 Semester

Occupational therapists help people with physical or mental disabilities gain the skills they need to be as independent as possible. In this class you will explore the dynamic history and philosophy of occupational therapy, understand the difference between occupational therapists, occupational therapy assistants, and occupational therapy aides. Students will experience hands on learning of job skills needed to gain employment as an occupational therapy aide, rehabilitation provider.

Please note: Students will be randomly drug tested.

Pre-Requisites: Seniors Only, at least 6 high school credits, including 1 Pre-Algebra, 1 Biology and 1 English credit. EVIT's MC10: 'C' or better or Anatomy & Physiology w/Medical Terminology. On track to graduate or a plan for graduation 2.0 GPA or equivalent standardized test scores

MC58 Occupational Therapy Aide II

Students continue learning the skills of the occupational therapy aide and prepare for a 40-hour externship. Qualified students will participate in clinical experiences to gain valuable on the job experiences. Students must provide transportation to clinical experiences.

Pre-Requisites: MC57

PHARMACY TECHNICIAN

MC10 Anatomy and Physiology for Medical Careers

2 Semesters

This course is designed for students interested in any health-related field and is required for students interested in advanced training in many second-year medical programs at EVIT (see pre-requisites for other programs). Study anatomy, physiology, medical terminology, nutrition, human growth and development, human diseases, infection control and human reproduction using a hands-on, project-based approach. Collaborative lab work and dissections are also an integral part of this course. Students participate in HOSA, a student organization that promotes career opportunities in the health care industry and enhances the delivery of quality health care to all people.

Please note: History of drug abuse may limit career opportunities. This course has been approved as a lab science credit worthy course by the Arizona Department of Education, please check with your district to verify they approve this course as a lab science towards graduation. Dual enrollment credit may be available.

Pre-Requisites: At least 6 high school credits, including 1 Math credit and 1 English credit: both 'C' or better Biology (may be taken concurrently) 2.0 GPA or equivalent standardized test scores

MC43 Pharmacy Technician I

1 Semester

Pharmacy technicians help licensed pharmacists prepare prescription medications, provide customer service and perform administrative duties. The first semester concentrates on basic health care concepts such as medical terminology, safety, customer service, problem solving and CPR. Students learn occupation specific skills during the second semester. This rigorous academic course requires a high level of independent study while learning procedures for receiving prescription requests, counting tablets and labeling bottles, along with administrative functions such as answering phones and stocking shelves. Students must be 18 years of age to job shadow in a pharmacy. Job shadowing requires reliable transportation and is the sole responsibility of the student.

Please note: Students will be randomly drug tested.

Pre-Requisites: Seniors Only who have taken EVIT's MC10 or taken at least 1 credit of Biology or Anatomy & Physiology: 'C' or better Juniors who have taken MC10 as Sophomores: 'C' or better 1 Math and 1 English credit: both 'C' or better 2.5 GPA or equivalent standardized test scores

MC63 Pharmacy Technician II

1 Semester

The spring semester continues learning the procedures of being a pharmacy technician. Students must be 18 years of age to job shadow in a pharmacy. Job shadowing requires reliable transportation and is the sole responsibility of the student.

Pre-Requisites: MC43

HEALTH SCIENCE TECHNOLOGIES

PHYSICAL THERAPY TECHNICIAN

MC10 Anatomy and Physiology for Medical Careers 2 Semesters

This course is designed for students interested in any health-related field and is required for students interested in advanced training in many second-year medical programs at EVIT (see pre-requisites for other programs). Study anatomy, physiology, medical terminology, nutrition, human growth and development, human diseases, infection control and human reproduction using a hands-on, project-based approach. Collaborative lab work and dissections are also an integral part of this course. Students participate in HOSA, a student organization that promotes career opportunities in the health care industry and enhances the delivery of quality health care to all people.

Please note: History of drug abuse may limit career opportunities. This course has been approved as a lab science credit worthy course by the Arizona Department of Education, please check with your district to verify they approve this course as a lab science towards graduation. Dual enrollment credit may be available.

Pre-Requisites: At least 6 high school credits, including 1 Math credit and 1 English credit: both 'C' or better Biology (may be taken concurrently) 2.0 GPA or equivalent standardized test scores

MC45 Physical Therapy Technician I 1 Semester

Physical therapist technicians and chiropractic assistants help doctors in the treatment and diagnosis of people with medical conditions and functionally-limiting injuries. This is a rigorous academic course that requires a high level of independent study. Qualified students will participate in job shadowing and/or internships in physical therapy offices or clinics. Shadowing and/or interning require reliable transportation at the sole responsibility of the student. Flexible hours may be required depending upon the availability of clinical sites. This program is approved by the State Board of Chiropractic Examiners to train Chiropractic Assistants.

Please note: Students will be randomly drug tested.

Pre-Requisites: Seniors only who have taken EVIT's MC10 or taken at least 1 credit of Anatomy & Physiology: 'C' or better; or 1 credit of Sports Medicine
1 Math and 1 English credit: both 'C' or better
2.5 GPA or equivalent standardized test scores

MC46 Physical Therapy Technician II 1 Semester

Physical therapist technicians and chiropractic assistants help doctors in the treatment and diagnosis of people with medical conditions and functionally-limiting injuries. This is a rigorous academic course that requires a high level of independent study. Qualified students will participate in job shadowing and/or internships in physical therapy offices or clinics. Shadowing and/or interning require reliable transportation at the sole responsibility of the student. Flexible hours may be required depending upon the availability of clinical sites. This program is approved by the State Board of Chiropractic Examiners to train Chiropractic Assistants.

Please note: Students will be randomly drug tested.

Pre-Requisites: MC45

MESSAGE THERAPY

MA05 or 20 Massage Therapy I 1 Semester

Begin your study of Western and Eastern massage modalities, including Swedish, Chair massage, sports massage, hot stone and Reflexology. Coursework also includes anatomy and physiology, hygiene, ethics and medical terminology. Students prepare for their state licensing by completing 700 hours of hands-on training in the public clinic on campus and at various community events. Students must be 18 years of age before applying for state licensure.

Students have the option of choosing the 2.5 hour per day two-year program OR the four-hours per day one-year program. Please state which option the student is choosing on the application. Students must be 18 years of age before applying for state licensure. Students have the option of choosing the 2.5-hours-per-day two-year program OR the four-hours-per-day one-year program (MA20, 22, 21 & 23). Please state which option the student is choosing on the application.

Please note: Students may be randomly drug tested.

Pre-Requisites: 2 English credits and Biology with a "C" or better
No criminal record
2.0 GPA or equivalent standardized test scores

MA10 or 22 Massage Therapy II 1 Semester

Second semester is a continuation of anatomy and physiology along with an introduction to the public clinic. More emphasis is placed on hands-on training.

Please note: Students may be randomly drug tested

Pre-Requisites: MA05

MA 06/20 or 21/23 Massage Therapy III 2 Semesters

Students are preparing for their state certification by completing a minimum of 700 hours of hands-on training in the public clinic and community events. More focus is spent on clinical assessment and treatment planning for a wide variety of clients. Students will end their second-year by preparing a business portfolio to include resume, cover letter, business cards and brochures.

Please note: Students may be randomly drug tested.

Pre-Requisites: MA06

HEALTH SCIENCE TECHNOLOGIES**VETERINARY ASSISTANT****MC10 Anatomy and Physiology for Medical Careers (Veterinary Focus) 2 Semesters**

This course is designed to provide students with the opportunity to gain the knowledge, basic skills and abilities necessary to perform in an environment that maximizes the health care of animals. The curriculum prepares students for postsecondary Veterinary Technician education or entering the workforce as a veterinary assistant in a multitude of veterinary medical professions. This course is the first year of a two-year program culminating in the presentation of a EVIT certificate for completion for those successfully completing the two-year sequence. Students will study anatomy and physiology of various species, medical terminology, veterinary office and hospital procedures, communication and client relations, examination and clinical procedures, and veterinary assisting skills and procedures. This program is approved by the National Association of Veterinary Technicians in America (NAVTA). Student are eligible to sit for the Approved Veterinary Assistant examination upon completion of the two-year program.

Please note: History of drug abuse may limit career opportunities. This course has been approved as a lab science credit worthy course by the Arizona Department of Education, please check with your district to verify they approve this course as a lab science towards graduation. Dual enrollment credit may be available.

Pre-Requisites: At least 6 high school credits, including 1 Math credit and 1 English & Biology credit: both 'C' or better
2.5 GPA or equivalent standardized test scores

MC44 Veterinary Assisting I 1 Semester

Veterinary Assisting I, is a continuation of the MC 10 Anatomy and Physiology for Medical Careers (Veterinary Focus) course. Students will apply and build upon knowledge learned in the MC 10 with Veterinary Assistant course. Students will study advanced examination and clinical procedures, advanced veterinary assisting skills and procedures, veterinary laboratory procedures, veterinary surgical preparation and assisting, radiology and veterinary imaging skills, and veterinary pharmacy and pharmacology. This program is approved by the National Association of Veterinary Technicians in America (NAVTA). Student are eligible to sit for the Approved Veterinary Assistant examination upon completion of the two-year program.

Please note: This class is offered at the EVIT East Campus ONLY. Students will be randomly drug tested.

Dual Enrollment for college credits is available.

Pre-Requisites: MC14 (Vet) at EVIT

MC64 Veterinary Assisting II 1 Semester

In this course students prepare for their Approved Veterinary Assistant certification by completing a 140 hour externship of hands-on training in a veterinary or animal-related industry. Externships are designed to prepare veterinary assistant students for high-quality service in practice, advanced specialty training, or other related field. Externs will primarily learn about and perform various animal husbandry and medical duties alongside staff while gaining valuable experience and knowledge. This program is approved by the National Association of Veterinary Technicians in America (NAVTA). Student are eligible to sit for the Approved Veterinary Assistant examination upon completion of this course.

Please note: This class is offered at the EVIT East Campus ONLY. Students will be randomly drug tested.

Dual Enrollment for college credits is available.

Pre-Requisites: MC44

INDUSTRIAL TECHNOLOGIES**CONSTRUCTION TECHNOLOGIES****CT10 Construction I 1 Semester**

With the opportunities offered by the construction trades the student will learn critical thinking and essential problem-solving skills. Also identifies and discusses positive social skills and presents information on computer systems and their industry applications. Instruction in the basic jobsite safety information to prepare workers for the construction environment. Learning to describe the common causes of workplace incidents and accidents and how to avoid them. Introduces common personal protective equipment, including equipment required for work at height, and its proper use. Information related to safety in several specific environments, including welding areas and confined spaces is also provided. The student will review basic math skills related to the construction trades and demonstrates how they apply to the trades. Covers multiple systems of measurement, Decimals, Fractions, and basic Geometry, Decimals/Percentages, Reading Measurements, Calculating Area, Powers of Ten, Linear Measure, Angles, Volumes, Pressure, and Slopes, Solving for Unknowns, Square Inches, Feet, and Yards, Volume. Introduction to common hand tools used in a variety of construction crafts. Identifies tools and how to safely use them, also the operation of many power tools common in the construction environment. Provides instruction on proper use, as well as safe-handling guidelines and basic maintenance. Introduction to the basic terms, components, and symbols of construction drawings, as well as the most common drawing types. Also covers the interpretation and use of drawing dimensions.

Understanding the basic information related to rigging and rigging hardware, such as slings, rigging hitches, and hoists. Emphasizes safe working habits in the vicinity of rigging operations, techniques for effective communication on the job. Includes examples that emphasize the importance of both written, verbal, non-verbal (hand signals) communication skills. Students learn the importance of reading skills in the construction industry and discusses effective telephone and email communication skills, and can describes the hazards associated with handling materials and provides techniques to avoid both injury and property damage, introducing common material handling equipment.

Pre-Requisites: At least 6 high school credits, including 1 Math credit
2.0 GPA or equivalent standardized test scores

INDUSTRIAL TECHNOLOGIES**CT20 Construction II****1 Semester**

Building off of Semester I students will cover framing basics and the procedures for laying out and constructing a wood floor using common lumber, as well as engineered building materials. Learn how to describe types of roofs and provides instructions for laying out rafters for gable roofs, hip roofs, and valley intersections and techniques for measuring and calculating rise, run, and stairwell openings, laying out stringers, and fabricating basic stairways.

Students will learn the procedures for laying out and framing walls, including roughing-in door and window openings, constructing corners, partition Ts, and bracing walls. Includes the procedure to estimate the materials required to frame walls, how to properly prepare the roof deck and install roofing for residential and commercial buildings, and be introduced to construction equipment, including the aerial lift, skid steer loader, electric power generator, compressor, compactor, and forklift. Students will learn how DWV systems remove waste safely and effectively. Discussing how system components, such as pipe, drains, traps, and vents work. Reviewing drain and vent sizing, grade, and waste treatment, and discussing how building sewers and sewer drains connect the DWV system to the public sewer system. Students are introduced to different types of plastic pipe and fittings used in plumbing applications, including ABS, PVC, CPVC, PE, PEX, and PB, also explaining the proper methods for cutting, joining, and installing all piping systems. Addressing insulation, pressure testing, seismic codes, and handling and storage requirements of plastic and copper pipes.

Pre-Requisites: CT10**CT25 Construction III****2 Semesters**

Students will cover the various types of exterior finish materials and their installation procedures, including wood, metal, vinyl, and fiber-cement siding. Learn how to provide detailed instructions for the selection and installation of base and wall cabinets and countertops. Students will expand on the knowledge and skills gained through the Carpentry Curriculum and provides the basic information needed to construct and apply finishes to custom cabinetry, and identify and discusses various types of wood products, wood-joining techniques, power tools, cabinet doors, shelves, and hardware. Specific guidance is also provided for the installation of laminated countertops. Introduction to basic masonry materials, tools, techniques, and safety precautions. Explains how to mix mortar by hand and lay masonry units. Also describes the skills, attitudes, and abilities of successful masons, coving characteristics of block and brick; how to set up, lay out, and bond block and brick; how to cut block and brick; how to lay and tool block and brick; and how to clean block and brick once they have been laid. Learning masonry reinforcements and accessories used to lay block and brick professionally and safely. Students learn the principles of heating, ventilating, and air conditioning, career opportunities in HVAC, and how apprenticeship programs are constructed, and basic safety principles, as well as trade licensure and EPA guidelines, are also introduced. The students learn electrical devices and wiring techniques common to residential construction and maintenance, learning to practice making service calculations. Students cover safety rules and regulations for electricians, including precautions for electrical hazards found on the job. Also covering the OSHA-mandated lockout/tagout procedure.

Pre-Requisites: CT20**HEATING, VENTILATION AND AIR CONDITIONING (HVAC)****AC10 Heating, Ventilation and Air Conditioning (HVAC) I****1 Semester**

Introduction to HVAC covering the basic principles of heating, ventilating, and air conditioning, career opportunities in HVAC, and how apprenticeship programs are constructed, as well as trade licensure and EPA guidelines, are also introduced. Mathematics trade related problems involving the measurement of lines, area, volume, weights, angles, pressure, vacuum, and temperature, including a review of scientific notation, basic laws of matter, basic laws of thermodynamics, powers, roots, and basic algebra and geometry. Introduction to the concept of power generation and distribution, common electrical components, AC and DC circuits, and electrical safety as it relates to the HVAC field, introduction to reading and interpreting wiring diagrams, understanding the fundamentals of heating systems and the combustion process. Students will learn the different types and designs of gas furnaces and their components, as well as basic procedures for their installation and service. Learning the fundamental operating concepts of the refrigeration cycle and identifying both primary and secondary components found in typical HVAC/R systems. Also introduces common refrigerants. Learn how to describe the factors related to air movement and its measurement in common air distribution systems and the required mechanical equipment and materials used to create air distribution systems.

Students will be introduced to basic system design principles for both hot and cold climates, how to identify types of copper tubing and fittings used in the HVAC/R industry and how they are mechanically joined. Also learn the identification and application of various types of plastic piping, along with their common assembly and installation practices, equipment, techniques, and materials used to safely join copper tubing through both soldering and brazing. Covering the required personal protective equipment, preparation, and work processes in detail. Also provides the procedures for brazing copper to dissimilar materials.

Pre-Requisites: At least 6 high school credits, including 1 English credit and 1 Math credit: both 'C' or better
2.0 GPA or equivalent standardized test scores**AC20 Heating, Ventilation and Air Conditioning (HVAC) II****1 Semester**

Building what students learned in the first semester. Students covers transformers, single-phase and three-phase power distribution, capacitors, the theory and operation of induction motors, and the instruments and techniques used in testing AC circuits, as well as the components and reviews electrical safety. Students learn how to explain operating principles of compressors used in comfort air conditioning and refrigeration systems. Includes installation, service, and repair procedures, characteristics and applications of pure and blended refrigerants, and provides extensive coverage of lubricating oils used in refrigeration systems, refrigerant handling and equipment servicing procedures for HVAC systems in an environmentally safe manner, the operating principles, applications, installation, and adjustment of fixed and adjustable expansion devices used in air conditioning equipment, the principles of reverse cycle heating, operation of heat pumps and explains how to analyze heat pump control circuits. Includes heat pump installation and service procedures. Also information related to maintenance-oriented materials, as well as guidelines for the inspection and periodic maintenance of various systems and accessories. Also covers the application of gaskets and seals, as well as the adjustment of different types of belt drives. Includes information on inspection and maintenance requirements for selected equipment.

Pre-Requisites: AC10

INDUSTRIAL TECHNOLOGIES

AC25 Heating, Ventilation and Air Conditioning (HVAC) III 2 Semesters

Second year students cover a variety of fasteners, hardware, and wiring terminations used in HVAC systems including the installation of these components. Students are provided with information and skills to troubleshoot control circuits and electric motors found in heating and cooling equipment, guidance related to troubleshooting cooling systems, review of the heat pump operating cycle, and presents troubleshooting procedures for components, information and skills needed to troubleshoot gas-fired furnaces and boilers. Student learn the construction and operation of oil-fired heating systems and their components. Includes servicing and testing of oil furnaces and procedures for isolating and correcting oil furnace malfunctions, skills needed to troubleshoot various air treatment accessories used with heating and cooling equipment, skills needed to troubleshoot and repair zoned, ductless, and variable refrigerant flow systems. Also learning water problems encountered in heating and cooling systems and identifies water treatment methods and equipment, the issues associated with indoor air quality and its effect on the health and comfort of building occupants, and heat recovery/reclaim devices, as well as other energy recovery equipment used to reduce energy consumption in HVAC systems, System Air Balancing, Also covering the start-up and shutdown of typical cooling towers and packaged HVAC units, Construction Drawings and Specifications, Heating and Cooling System Design Identifies factors that affect heating and cooling loads. Explains the process by which heating and cooling loads are calculated, and how load calculations are used in the selection of heating and cooling equipment, Commercial/Industrial Refrigeration Systems, Alternative and Specialized Heating and Cooling Systems.

Pre-Requisites: AC20

PLUMBING

PLB10 Plumbing I 1 Semester

Plumbers protect the health of nations. Develop hands-on skills in various disciplines of commercial and residential Service Plumbing Technician. Students will study Blueprints, water distribution systems, drainage waste and vent systems, plumbing fixtures, potable water quality, water heating concepts and plumbing fixture installation. Industry- driven curriculum and internships prepare students for employment, apprenticeship programs, community college or a four-year post-secondary institution

Pre-Requisites: 1 Math and 1 English credit: both 'C' or better
2.0 GPA or equivalent standardized test scores

PLB20 Plumbing II 1 Semester

Building on the lessons from Semester 1 the student learns Isometric drawings, material takeoffs, approved submittal data, and Building Information Management (BIM). Exploring the basics of backflow and water hammer prevention, and discusses the installation of shower and tub valves, ice maker and washing machine boxes, and pipe stub outs and supports, introduction to Fuel Gas Systems and safe handling of natural gas, liquefied petroleum gas, and fuel oil, introduction to electrical safety and the principles of electricity. The student will also be exploring gas-fired, electric, tankless, heat pump, and indirect water heaters, components, and applications.

Pre-Requisites: PLB10

PLB22 Plumbing III 2 Semesters

Students will learn the types of private waste disposal systems, discusses the maintenance and installation of these systems. Introduction to the common types of medical gas and vacuum systems, and introduces the safety requirements for installing, testing, and servicing these systems, introduction to the hydronic and solar heating systems layout, installation, testing, and balancing, techniques for sizing water supply systems, including calculating system requirements and demand, developed lengths, and pressure drops, learn how to calculate drainage fixture units for waste systems. Business Principles for Plumbers / Introduction to concepts and practices that is essential for competitive, successful plumbing businesses. Also covers basic business accounting and project estimating, as well as techniques for cost control and task organization. Also learning basic leadership skills and explains different leadership styles, communication, delegating, and problem solving. With Service Plumbing the student learns how to repair of fixtures, valves, and faucets in accordance with code and safety guidelines.

Pre-Requisites: PLB20

PUBLIC SERVICE CAREERS

CRIMINAL JUSTICE

LE10 Criminal Justice I 1 Semester

Prepare for a career in the within Criminal Justice System. Training includes studies in crime scene investigations, forensics, report writing, court functions, jail functions, interrogation skills, police functions and physical fitness.

Students will gain a strong foundation in interpersonal and soft skills. Which will help students entering a career in the criminal justice system. Such as, law enforcement, courts, jails, correctional institutions, and probation and parole. The program will prepare students for military service, a college degree, or employment with criminal justice system.

Students who reach age of 18 before completing the program may earn their Arizona Security Guard Card, allowing them to work in the field upon completion.

Please note: Dual Enrollment for college credit is available.

Pre-Requisites: At least 6 high school credits, including 1 Math credit and 1 English credit: 'C' or better No criminal history
2.0 GPA or equivalent standardized test scores

PUBLIC SERVICE CAREERS

LE20 Criminal Justice II 1 Semester

Training includes advanced study in crime scene investigations, forensics, report writing, court functions, jail functions, interrogation skills, police functions and physical fitness. Students will gain a strong foundation in interpersonal and soft skills. Which will help students entering a career in the criminal justice system. Such as, law enforcement, courts, jails, correctional institutions, and probation and parole. The program will prepare students for military service, a college degree, or employment with criminal justice system. Students who reach age of 18 before completing the program may earn their Arizona Security Guard Card, allowing them to work in the field upon completion.

Please note: Dual Enrollment for college credit is available.

Pre-Requisites: LE10

LE25 Criminal Justice III 2 Semesters

Prepare for a career in the within Criminal Justice System. Training includes advanced study in crime scene investigations, forensics, report writing, court functions, jail functions, interrogation skills, police functions and physical fitness. Students will gain a strong foundation in interpersonal and soft skills. Which will help students entering a career in the criminal justice system. Such as, law enforcement, courts, jails, correctional institutions, and probation and parole. The program will prepare students for military service, a college degree, or employment with criminal justice system. Students who reach age of 18 before completing the program may earn their Arizona Security Guard Card, allowing them to work in the field upon completion.

Please note: Dual Enrollment for college credit is available.

Pre-Requisites: LE20

FIRE SCIENCE

FF10 or 21 Fire Science I 1 Semester

Fire Science I. Students will be introduced to firefighting basics and other emergency service related task. Students will learn the history of the fire service, fire behavior, water supply, firefighter gear and breathing apparatus and other engine company operations including fire attack and foam. Students will be completing IFSAC Firefighter I & II skill sheets.

Please note: Dual enrollment for college credits is available.

Pre-Requisites: 2.0 GPA or equivalent standardized test scores

FF20 or 22 Fire Science II 1 Semester

Fire Science II. Students will continue working on engine company operations and also be introduced to ladder company operations. Students will learn forcible entry, search and rescue, firefighter survival and salvage and overhaul. They will also learn technical rescue, including rappelling, rope rescue, and patient packaging. Students will be completing IFSAC Firefighter I & II skill sheets.

Please note: Dual enrollment for college credits is available.

Pre-Requisites: FF10 or instructor approval

FF25 Fire Science III 2 Semesters

The advanced fire science course is a yearlong course designed to build upon the skills learned in fire science I & II. The students will learn about emergency vehicle operations; driving and operating the fire apparatus. The students will also learn hydraulic theory, hazardous materials response and place into practice what they learn by operating pumps, developing water supply, fire attack streams for firefighting operations and hazmat response scenarios. Students will complete a wildland firefighter training course and test for their national certification as a wildland firefighter S-130, S-190. FF 25 also covers aircraft rescue firefighting (ARFF), auto extrication and advanced search and rescue. Students will also take the emergency medical technician course, which includes an on-site hospital clinical session and will test for their national certification as an EMT. (NREMT). Students will also learn employability skills for job interviews and applications. *Students will participate in a live burn scenario day at a city fire department training facility. *

Please note: Dual enrollment for college credits is available. Drug Testing will be required at some point during course. Students that fail will be removed from FF21 and repeat FF10/20.

Pre-Requisites: 2.0 GPA or equivalent standardized test scores **Human Anatomy & Physiology** highly recommended to take concurrently**

TRANSPORTATION TECHNOLOGIES

AUTOMOTIVE TECHNOLOGIES

AM10 Automotive Technologies Fundamentals 1 Semester

Train for a career in the Automotive industry through National Automotive Technicians Education Foundation (NATEF) certified instruction and Automotive Service Excellence (ASE) certified instructors. This program focuses on employment standards that prepare students for the workforce. Learn all aspects of Automotive repair and maintenance including engine performance, engine repair, electrical systems, brakes, steering, suspension and alignment. Practice and master hands-on skills on late-model vehicles and participate in work-based internship and job shadowing. In your first semester you will train in Shop safety and proper tool usage. Once mastered You will move into Automotive theory and from there you will disassembly an engine, identify the parts, measure the moving part and reassemble the engine.

Please note: Dual Enrollment for college credit is available.

Pre-Requisites: At least 6 high school credits, including 1 English credit and Pre-Algebra: 'C' or better
2.0 GPA or equivalent standardized test scores

TRANSPORTATION TECHNOLOGIES

AM20/30 Automotive Technologies I/II

1 Semester (2 quarters: Q3/Q4)

In your second semester as a first year Automotive Student you will learn the proper maintenance of a vehicle. You will perform oil changes, transmission services, cabin filter replacement, starting and charging system testing and inspection. Once you complete your maintenance course you will learn the operation of cooling systems and lubrication systems. You will also learn how the hydraulic brake system operates, how suspension and driveline system works as well.

Please note: Dual Enrollment for college credit is available.

Pre-Requisites: AM10

AM35 Automotive Technologies III

1 Semester

Year 2 of the Automotive program a student will learn heating and air-conditioning, electronics and computer controls on the cars. Your final semester involves the understanding of Air brakes, ABS and traction control on a vehicle. After 4 semesters you will complete the program with a vast understating on how a vehicle runs and operates. Internships, work shadows and career fairs occur in this year.

Please note: Dual Enrollment for college credit is available.

Pre-Requisites: AM30

AVIATION TRANSPORTATION

AV05 Aviation Spectrum

1 Semester

This is a series of introductory classes covering various subjects from aerodynamics to specific aircraft systems. You will be actively engaged in our labs as we disassemble and reassemble actual engines during the airframe & power plant unit, construct sheet metal airfoils to fly in our wind tunnel, and test your understanding of flight instruments and flight navigation in our computer simulators. This semester is very beneficial to anyone interested in the flight or maintenance career fields. This course is the first of a two-year program culminating in the presentation of a EVIT certificate for completion for those successfully completing the two-year sequence.

Please note: Dual enrollment credit may be available. Please note: History of drug abuse may limit aviation career opportunities.

Pre-Requisites: At least 6 high school credits, including Algebra with a "B" or better
2.5 GPA or equivalent standardized test scores

AV10/AV20 Advanced Aviation I/II

1 Semester

(2 quarters: Q3/Q4) This course is a continuation of AV05. This semester centers more on airport operations, the air traffic control field and pilot ground school subjects. They will learn about aviation related weather, aeronautical decision making skills (ADM), basic aviation physiology, aerospace navigation systems, and flight planning skills. Students that are planning to begin flight training in the second year are highly encouraged to obtain an FAA medical certificate by the end of the first semester. This also includes the completion of the FAA written private pilot (or drone operator) exam. Those planning to pursue an internship must complete an interview and acceptance from the employer

Please note: Dual enrollment credit may be available. Please note: History of drug abuse may limit aviation career opportunities.

Pre-Requisites: AV05

AV35 Advanced Aviation III

1 Semester

This semester the students will participate in either flight training or an internship with an aviation industry partner. We partner with CGCC as the students receive both ground and flight instruction in a Part 141 flight program run by UND. We also offer internships that would allow those interested to take their flight instruction in either airplane or helicopter at one of the local flight schools. We may offer internships and training to be a certified UAV, (Drone) operator by collaborating with our local industry partners.

Please note: Dual enrollment credit may be available. Please note: History of drug abuse may limit aviation career opportunities.

Pre-Requisites: AV20

COLLISION REPAIR

AB10 Collision Repair I

1 Semester

Students will learn the collision repair business from A-Z in Arizona's first National Automotive Technicians Education Foundation (NATEF) certified collision program. You'll learn damage diagnosis (estimating), repair, Paint prep and refinish techniques with paint mixing and matching and blending procedures.

Pre-Requisites: At least 6 high school credits
2.0 GPA or equivalent standardized test scores

AB20/AB30 Collision Repair II/III

1 Semester (2 quarters: Q3/Q4)

Students receive I-CAR training and influence from ASE (Automotive Service Excellence) and are prepared for entry level jobs such as body or paint technician, parts procurement, production manager, insurance estimator or adjuster, paint or tool salesperson, and many other related career opportunities. Students will be introduced to aluminum repair and welding, steering and suspension systems, wheel alignment, dimensioning procedures for analyzing structural damage, adhesive bonding, anchoring procedures, structural dimensioning using mechanical and computer measuring systems, stationary glass replacement, welded panel replacement procedures including resistance spot welding and unibody sectioning. Safe and proper use of tools and equipment are covered in each area.

Pre-Requisites: AB10

TRANSPORTATION TECHNOLOGIES

AB35 Collision Repair III/IV

2 Semesters

Students will continue their advanced studies in the collision repair business in Arizona's first National Automotive Technicians Education Foundation (NATEF) certified collision program. Advanced techniques in damage diagnosis (estimating), repair, Paint prep and refinish techniques with paint mixing and matching and blending procedures.

Students will also learn advanced single stage and 2 stage paint application, mixing paint on a computerized scale, ordering materials, removal and application of stripes and decals, color matching and blending, identifying and refinishing different types of plastics and application of special OEM coatings.

Pre-Requisites: AB30

DIESEL TECHNOLOGIES

AM63 Diesel Technologies Fundamentals

1 Semester

Train for a career in the Diesel Truck industry through National Automotive Technicians Education Foundation (NATEF) certified instruction and Automotive Service Excellence (ASE) certified instructors. This program focuses on employment standards that prepare students for the workforce. Learn all aspects of Diesel repair and maintenance including engine performance, engine repair, electrical systems, brakes, steering, suspension and alignment. Practice and master hands-on skills on late-model Semi Truck and participate in work-based internship and job shadowing. In your first semester you will train in Shop safety and proper tool usage. Once mastered you will move into Diesel Engine theory and from there you will disassemble an engine, identify the parts, measure the moving part and reassemble the Diesel engine.

Please Note: Dual Enrollment for community college is available.

Pre-Requisites: Juniors and Seniors only
 At least 1 English credit and Pre-Algebra: 'C' or better
 2.0 GPA or equivalent standardized test scores
 Recommended: Prior knowledge/experience with basic automotive repair

AM68/AM69 Diesel Technologies I/II

1 Semester (2 quarters: Q3/Q4)

In your second semester as a first year Diesel Student you will learn the proper maintenance of a modern Semi Truck. You will perform oil changes, transmission services, cabin filter replacement, starting and charging system testing and inspection. Once you complete your maintenance course you will learn the operation of cooling systems and lubrication systems. You will also learn how the hydraulic brake system operates, how semi-truck suspension and driveline system works as well.

Please Note: Dual Enrollment for community college is available.

Pre-Requisites: AM63

AM70 Diesel Technologies III

2 Semesters

Year 2 of the Diesel program a student will learn heating and air-conditioning, electronics and computer controls on the Truck and also the trailer of a semi. The final semester involves the understanding of Air brakes, ABS and traction control on a truck and trailer. After all 4 semester you will complete the program with a vast understating on how a late model semi-truck runs and operates.

Please Note: Dual Enrollment for community college is available.

Pre-Requisites: AM69

It is the policy of the East Valley Institute of Technology District #401 to provide all persons with equal employment and education opportunities regardless of race, color, sex, national origin, marital status, age or disability. District grievance procedures will be followed for compliance with Title IX and section 504 requirements. The compliance office is the EVIT Superintendent.

Mesa Unified School District No. 4

NOTICE OF NONDISCRIMINATION

Mesa Public Schools does not discriminate on the basis of race, color, ethnicity, national origin, religion, sex or gender, sexual orientation, disability or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The following persons have been designated to handle inquiries regarding the nondiscrimination policies: The Compliance Officer for Title IX is the Associate Superintendent, 63 East Main Street #101, Mesa, Arizona 85201-7422, (480) 472-0205, and the Compliance Officer for Section 504 is the Executive Director of Special Education, 1025 N. Country Club Drive, Mesa, Arizona 85201-3307, (480) 472-0710.

