



HIGH SCHOOL

COURSE DESCRIPTION CATALOG

2017
GRADES 9-12
2018



MPSC
Culinary



HIGH SCHOOL COURSE DESCRIPTION CATALOG

GRADES 9-12 • 2017-2018



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at 480-472-0000



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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 contents of this catalog supersede previous catalogs. Students should contact school student advisors 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, completion of class credit requirements and attainment of a "passing" score on state assessments as determined by the Arizona State Board of Education.

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 may vary at each school. Pre-registration is conducted at each school during the spring for the next school year.

Registration materials are mailed home in early July. The materials include student data forms, food and nutrition forms and optional course materials information and fees. Parents are encouraged to return the required forms with payment for optional materials by the date indicated in the packet. An online payment option is available for your convenience.

High School Grade Classifications

High school students are expected to graduate by completing a four (4) year program of study. The freshman (9th grade) year begins the four year sequence. Each year, students move from one grade classification to the next regardless of the number of credits they have earned. 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) and meet or exceed Arizona's designated assessment requirements 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 student advisor 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 and physical science + 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 only 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 Placement (AP) Capstone Diploma
- Career and Technical Education (CTE) AZ State Program Completer & Industry Certification
- International Baccalaureate (IB) Diploma
- Advanced STEM Designation
- Arizona Seal of Biliteracy
- MPS Advanced Honor for Excellence in Academics
- MPS Service Learning Honor For Excellence
- Scholastic Diploma ② *(See Note on page 14)*

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 six credits through Mesa Distance Learning Program (MDLP), Community Education, etc., will be assessed tuition of \$150 per course per semester and must have prior parental and school administration approval.
5. Students who are co-enrolled in a Mesa Public School designated Joint 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. Through careful planning, disappointments and confusion can be avoided. Please consult your Student Advisor.

Outside School Activity Credits (9th-12th grade)

Rarely, students may be granted credit for activities outside the school. The criteria for granting credit are as follows:

1. The activity (class, session, etc.) is scheduled for a specific time frame.
2. The instructor must be a certified teacher.
3. Significant new learning must take place.
4. Time spent in activities outside school should be equal to or greater than the time spent in a regular MPS class.
5. Request for credit for activities outside of school must be made to the principal prior to, but no later than the 20th day of the semester in which the activity will occur.
6. One (1) elective credit toward high school graduation is allowed for classes/courses considered to be a part of the district curriculum. Credit earned from outside school activity will not count as core credit.
7. A pass/fail grade will be issued upon receipt of attendance and grading record.

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 student advisement office 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 ten (10) days of the semester will not be reflected on the transcript.
- Withdrawals from the 11th 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 student advisement/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 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
4 credits in Mathematics

3 credits in Laboratory Science
3 credits in Social Studies *

2 credits in World Languages
1 credit in Fine or Practical (CTE) 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 student advisor 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	
				Principles of English III EN 46 or College Prep Writing EN 45 or Critical Thinking & Writing EN 41	British Literature EN 60 or Multicultural Literature EN 56 or Shakespeare EN 40 or Mythology EN 52 or Humanities EN 80
	9th Grade	10th Grade	11th Grade	12th Grade	

ADVANCED	Honors Freshman English EN 27	Honors Sophomore English EN 35 or Honors American History and Literature EN 58 (and SS 32)	AP English Language and Composition EN 70	AP English Literature and Composition EN 71
	9th Grade	10th Grade	11th Grade	12th Grade

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 student advisor 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

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 student advisor to determine the courses that meet individual and unique needs.

STANDARD	Essential Elements of Science SC 09	*Biology SC 49	Chemistry SC 71	Physics SC 81
	9th Grade	10th Grade	11th Grade	12th Grade
ADVANCED	*Biology SC 49 or *Honors Biology SC 45	Honors Chemistry SC 72	AP Physics I SC 79	AP Physics II SC 80 or **Other AP Lab Science
	9th Grade	10th Grade	11th Grade	12th Grade

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

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 student advisor 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).

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 is a college readiness program designed to prepare self-determined students, who have demonstrated average achievement for college readiness. The program enrolls students in rigorous courses and provides them intensive support to ensure their success. The major component at the junior and senior high school levels is a daily AVID elective class that students must attend. During this class, students receive training in effective note taking, organizational skills, 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.

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 Technologies (Computer Maintenance, Software Development, Web Design, 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.

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 and rigorous coursework leading to the IB Diploma. Universities may grant students advanced status and/or college credit based on completion of IB Diploma requirements.

The IB Middle Years Programme (grades 9-10) prepares students for a successful transition into the IB Diploma Programme (grades 11-12). Students participating in the IB Diploma Programme at Westwood must be seeking the IB Diploma and are required to take an IB course to be eligible to take an IB exam. IB students must take courses from each of the following groups: English, World Languages, Social Studies, Science, Mathematics and an elective. IB students will also experience a Theory of Knowledge (philosophy) course, participate in school-wide service groups and with the help of a personal adviser, complete a college-level research paper. (Available at Westwood High School)

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 highly-qualified 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 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 Red Mountain High School)

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) Diploma

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

The IB Diploma is an additional diploma that students may earn in conjunction with their MPS Diploma. To be eligible for an IB Diploma students must earn a minimum of 24 points total on the six IB exams taken throughout their junior and senior years. Students also earn points towards their IB Diploma for completing their Extended Essay (EE) research paper with the support of an advisor, as well as taking the IB Theory of Knowledge (TOK) course. Finally, IB students complete approximately 150 hours of activities relating to creativity, physical well-being and service of their choosing during the last two years of high school. In acknowledgment of earning this internationally recognized diploma, 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)

Arizona State Seal of Biliteracy

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

The Arizona State Seal of Biliteracy recognizes students who graduate from an Arizona school 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. Students must also show high levels of proficiency in English by receiving a passing score in English Language Arts on the required (AzMERIT) state assessment. Students 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.

MPS students 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.

***Please note: As of the printing of this course catalog the specific State Board of Education requirements for this seal have not been completely defined.** (Available at all MPS 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)

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 *additional 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 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 30 Applied Biology 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 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)

Scholastic Diploma

<http://www.mpsaz.org/curriculum/curriculum-2a/diploma-designations2/>

Ⓢ **NOTE:** The Scholastic Diploma is available for graduating classes of 2018 and 2019 only. Please refer to the MPS Advanced Honors for Excellence in Academics for graduating classes beyond 2019.

The MPS Scholastic Diploma ensures a student will meet the high school graduation and entrance requirements set for by the Arizona Board of Regents (ABOR) for general admittance to one of Arizona's three state universities. Credit requirements include: 4 English; 4 Mathematics including Algebra I, Geometry, Algebra II and an advanced math; 4 Lab Sciences Biology, Chemistry + SC 09 and/or advanced science(s); 3 Social Studies 3 credits including World History, American History, Government and Economics; 2 World Language (must be in the same language); 1 fine practical (CTE) arts; 1 Physical Education; 3 Elective; and a 3.0 + unweighted GPA that includes a minimum of 2 weighted classes). (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 examination is required for admission to all state universities. 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.

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

Difficulty: Average

2 Sem. — 1 Cr.

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

Difficulty: Average

2 Sem. — 1 Cr.

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

Difficulty: High

2 Sem. — 1 Cr.

Prerequisites: Jr. or Sr.

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).

VERIFY OFFERINGS AT SCHOOL SITE

AEROSPACE SCIENCE/LEADERSHIP

AS 34 AFJROTC IV - Senior Options

Difficulty: Average

2 Sem. — 1 Cr.

Prerequisites: AS 31, AS 32

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.

AS 35 AFJROTC Drill Team/Color Guard

Difficulty: Average

2 Sem. — 1 Cr.

Prerequisites: Must enroll in another AFJROTC course

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

Difficulty: High

2 Sem. — 1 Cr.

Prerequisites: AS 31, AS 32

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

Difficulty: Average

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

VERIFY OFFERINGS AT SCHOOL SITE

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 32 Beginning Photography

Difficulty: Average 1 Sem. — ½ Fine Arts/Elective Credit

Basic class in black and white photography, learning to use a camera, developing film and printing photographs. Emphasis on creating technically perfect photos and how to express thoughts and feelings through the visual images. A 35-mm single lens reflex camera is recommended. May include digital imagery/manipulations. **NOTE: Course fee required.**

AR 33 Intermediate Photography

Difficulty: Average 1 Sem. — ½ Fine Arts/Elective Credit

Prerequisites: AR 32

For successful student of AR32 wanting to develop more advanced photography skills and create artistic images. Emphasis on photography as an art form and medium of communication. A 35mm single lens reflex camera is recommended. May include digital imagery/manipulations. **NOTE: Course fee required.**

AR 34 Advanced Photography

Difficulty: Average-High 1 Sem. — ½ Fine Arts/Elective Credit

Prerequisites: AR 33

Exploration of advanced techniques of photographic imagery. A 35MM single lens reflex camera is recommended. May include digital imagery/manipulations. **NOTE: Course fee required.**

AR 40 Beginning Stained Glass

Difficulty: Average 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

Difficulty: Average 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.**

AR 42 Intermediate Stained Glass

Difficulty: Average 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

Difficulty: Average 1 Sem. — ½ Fine Arts/Elective Credit

Prerequisites: AR 41

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

Difficulty: Average-High 1 Sem. — ½ Fine Arts/Elective Credit

Prerequisites: AR 43

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.**

VERIFY OFFERINGS AT SCHOOL SITE

ART

AR 51 Beginning Enamel

Difficulty: Average 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

Difficulty: Average 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

Difficulty: Average 1 Sem. — ½ Fine Arts/Elective Credit

Prerequisites: AR 54

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

Difficulty: Average-High 1 Sem. — ½ Fine Arts/Elective Credit

Prerequisites: AR 54 & 56

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

Difficulty: Average 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

Difficulty: Average 1 Sem. — ½ Fine Arts/Elective Credit

Prerequisites: AR 60

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

AR 62 Advanced Painting

Difficulty: Average-High 1 - 2 Sem. — ½ - 1 Fine Arts/Elective Credit

Prerequisites: AR 61

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

Difficulty: Average 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

Difficulty: Average 1 Sem. — ½ Fine Arts/Elective Credit

Prerequisites: AR 63

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

VERIFY OFFERINGS AT SCHOOL SITE

ART

AR 66 Advanced Drawing

Difficulty: Average-High **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

Difficulty: Average **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

Difficulty: Average **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

Difficulty: Average-High **1 Sem. — ½ Fine Arts/Elective Credit**

Prerequisites: AR 71

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 80 AP Studio Art

A variety of painting media is used.

Difficulty: Average-High **2 Sem. — 1 Fine Arts/Elective Credit**

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

Offers the highly skilled junior or senior art student guidelines and instructions in the production and presentation of a portfolio for occupational or higher educational placement. Students will specialize in one of three portfolio options: 2-D, 3-D, or Drawing/Painting. Students will take an AP exam in May. See your school Student Advisor if you have a financial hardship. **NOTE: Course fee required. NOTE: This is a weighted course.**

AR 82 AP Art History

Difficulty: High **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 Student Advisor if you have a financial hardship. **NOTE: Course fee required. NOTE: This is a weighted course.**

VERIFY OFFERINGS AT SCHOOL SITE

ART

AR 90 IB Middle Years Art

Difficulty - Average **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.

***AR 91 IB Film Studies**

Difficulty: High

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.**

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**

Difficulty: Average 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.

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 postsecondary goals.

IT 06 Advanced Environmental Services

2 Sem. — 3 Fine/Practical Arts/Elective Credit

Prerequisite: IT 04

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.

AGRICULTURAL SCIENCE: ANIMAL SYSTEMS

ADE/CTE approved program for Animal Systems and Plant Systems.

***AG 30 Applied Biological Systems**

Difficulty: Average 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.

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

AG 31 Animal Science

Difficulty: Average 2 Sem. — 1 Additional Science/Practical Arts Credit
Prerequisites: AG 30 or SC 49

This course is designed to introduce students to the fundamentals of animal anatomy, physiology, genetics, reproduction, growth, nutrition, health, and agribusiness principles. Students will work with small and large animals on the land lab. Leadership development is provided through FFA. **NOTE: Course fee required.**

AG 35 Veterinary Science

Difficulty: Average-High 2 Sem. — 1 Additional Science/Practical Arts Credit
Prerequisites: AG 31

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

Difficulty: Average-High 2 Sem. — 1 Additional Science/Practical Arts Credit
Prerequisite: AG 31

This course is designed to teach the fundamentals of growing plants using biotechnology in propagating, using grafting, cuttings, seedlings and tissue culturing (via cloning, explants, etc.). DNA extraction and gene splicing will be taught for the production of disease resistance plants as well as plants used for medicine. Greenhouse management is crucial in growing the new generation of biotech plants. Skills taught include recognizing fertilizer deficiencies, plant diseases, insect damage, environmental deficiencies, applying growth stimulants and retardants, and plant identification. Students will grow bedding and container plants for school projects. Leadership development is provided through FFA. **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

Difficulty: Average 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

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

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****Difficulty:** High**2 Sem. — 1 Practical Arts/Elective Credit****Prerequisites:** IT 93

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****Difficulty:** Average**2 Sem. — 1 Practical Arts/Elective 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**Difficulty:** Average-High**2 Sem. — 1 Practical Arts/Elective Credit****Prerequisite:** HE 70

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.**

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

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.**

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

HE 73 Biomedical Innovation**Difficulty:** Average-High**2 Sem. — 1 Practical Arts/Elective Credit****Prerequisites:** HE 72

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: 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****Difficulty:** Average-High**2 Sem. — 1 Additional Science/Practical Arts Credit****Prerequisites:** SC 49 or SC 45 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**Difficulty:** Average-High**2 Sem. — 1 Additional Science/Practical Arts Credit****Prerequisites:** SC 48

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**Difficulty:** Average-High**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

Difficulty: Average **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 (ie: Word, Excel, PowerPoint, and Access).

CB 61 Business Leadership, Technology, Management

Difficulty: Average **2 sem. — 1 Practical Arts/Elective Credit**
Prerequisites: CB 09

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 in QuickBooks. 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.

**COMPUTER TECHNOLOGY:
COMPUTER MAINTENANCE**

ADE/CTE approved programs for Computer Maintenance.

CB 50 Computer Maintenance and Repair

Difficulty: Average-High **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

Difficulty: Avg-High **2 Sem — 1 Practical Arts/Elective Credit**
Prerequisite: CB 50

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 DEVELOPMENT**

ADE/CTE approved programs for Software Development.

CB 30 Exploring Computer Coding and App Development

Difficulty: Average **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 39 AP Computer Science Principles

Difficulty: Avg-High **2 Sem — 1 Practical Arts/Elective**
Prerequisites: CB 30

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

Difficulty: High **2 Sem — 1 Practical Arts/Elective Credit**
Prerequisite: CB 30

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

Difficulty: High **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.**

CB 71 IB Computer Science Standard Level/Higher Level II

Difficulty: High **2 Sem. - 1 Practical Arts/Elective Credit**
Prerequisite: CB 70

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 61 Computer Technology - Internship

(see Work Based Learning pages 27-28)

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

**COMPUTER TECHNOLOGY:
WEB DESIGN & DEVELOPMENT***ADE/CTE approved programs for Web Page Development.***CB 21 Web Page Development****Difficulty: Avg-High** **2 Sem — 1 Practical Arts/Elective Credit**

Students will develop dynamic yet vibrant web destinations as they create, build, and manage websites and Internet applications. Students will work with extensive code-editing and website building software. They will also be exposed to marketing and design techniques, commonly used on the World Wide Web. This course gives students the opportunity to develop real world web application skills as they create an interactive website for a small business.

CT 61 Computer Technology - Internship

(see Work Based Learning pages 27-28)

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

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****Difficulty: Average** **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**Difficulty: Average** **2 Sem. — 1 Practical Arts/Elective Credit**
Prerequisites: FS 41

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

FS 47 Catering and Special Events Management**Difficulty: Avg-High** **2 Sem — 1 Practical Arts/Elective**
Prerequisite: FS 45

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.

CT 65 Culinary Arts - Internship

(see Work Based Learning pages 27-28)

DESIGN & MERCHANDISING*ADE/CTE approved program for Fashion Design and Merchandising.***FS 59 Introduction to Fashion and Interior Design****Difficulty: Average** **2 Sem. — 1 Practical Arts/Elective Credit**

This course explores the components of Fashion and Interior design using illustration techniques to create projects. Projects will be constructed with fabric using sewing techniques, machine use and care, fabric selection related to apparel or interior design. Merchandising concepts will be included throughout. Related careers will be explored. Students will begin a progressive portfolio. **NOTE: Course fee required.**

FS 63 Intermediate Fashion and Interior Design**Difficulty: Average** **2 Sem. — 1 Practical Arts/Elective Credit**
Prerequisites: FS 59

This course is an in-depth look at the elements and principles of design as it relates to fashion and interiors. Students demonstrate an understanding of these principles through hands-on projects based on their career interest. Progressive portfolio will be enhanced. Concepts covered include design history, textiles, marketing, retailing and business operations. **NOTE: Course fee required.**

CT 67 Design & Merchandising - Internship

(see Work Based Learning pages 27-28)

DIGITAL PHOTOGRAPHY*ADE/CTE approved program for Digital Photography.***AR 21 Intro to Digital Photography****Difficulty: Average** **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. This course may include film photography. A digital SLR is highly recommended. **NOTE: Course fee required.**

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

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.**

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

DIGITAL PHOTOGRAPHY*ADE/CTE approved program for Digital Photography.***AR 23 Advanced Digital Photography****Difficulty: Average-High** **2 Sem. — 1 Practical Arts/Elective Credit**
Prerequisite: AR 22

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/Publications - Internship

(see Work Based Learning pages 27-28)

DIGITAL PUBLICATIONS*ADE/CTE approved program for Digital Communications.***GV 30 Intro to Digital Publications****Difficulty: Average** **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.**

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

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.**

CT 69 Digital Photography/Publications - Internship

(see Work Based Learning pages 27-28)

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

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

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**Difficulty: Average-High** **2 Sem. — 1 Practical Arts/Elective Credit**
Prerequisites: IT 32

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)

EDUCATION PROFESSIONS*ADE/CTE approved program for Education Professions.***FS 52 Early Childhood Professions****Difficulty: Average** **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.

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

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.

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

EDUCATION PROFESSIONS

ADE/CTE approved program for Education Professions.

FS 54 Student Teacher Experience

Difficulty: Average **2 Sem. — 1 Practical Arts/Elective Credit**

Prerequisite: FS 53

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.

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

Difficulty: Average-High **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

Difficulty: Average-High **2 Sem. — 1 Practical Arts/Elective Credit**

Prerequisites: IT 43

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

Difficulty: Average-High **2 Sem. — 1 Practical Arts/Elective Credit**

Prerequisite: IT 41

A course that helps students understand the field of engineering/engineering 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.**

IT 46 Engineering Design and Development

Difficulty: Average-High **2 Sem. — 1 Practical Arts/Elective Credit**

Prerequisite: IT 43

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

Difficulty: Avg-High **2 Sem — 1 Practical Arts/Elective Credit**

Prerequisite: IT 43

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.**

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

IT 55 Robotics

Difficulty: Average-High **2 Sem — 1 Practical Arts/Elective Credit**

Prerequisite: IT 43 recommended

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)

FINANCIAL SERVICES

ADE/CTE approved program for Financial Services.

CB 26 Financial Services I

Difficulty: Average-High **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

Difficulty: Average-High **2 Sem. — 1 Practical Arts/Elective Credit**

Prerequisite: CB 26

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)

SALES & MARKETING

ADE/CTE approved program for Professional Sales and Marketing.

BE 52 Marketing I

Difficulty: Average **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.

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

SALES & MARKETING

ADE/CTE approved program for Professional Sales and Marketing.

BE 53 Marketing II

Difficulty: Average

2 Sem. — ½ Practical Arts/1/2 Economics/Elective Credit

Prerequisite: BE 52

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

Difficulty: Average

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)

MANUFACTURING TECHNOLOGIES

ADE/CTE approved program for Precision Machining.

IT 80 Advanced Manufacturing I

Difficulty: Avg-High

2 Sem — 1 Practical Arts/Elective Credit

Prerequisite: IT 41

A course that applies principles of precision manufacturing 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 II

Difficulty: Avg-High

2 Sem — 1 Practical Arts/Elective Credit

Prerequisite: IT80

A course that applies advanced principles of precision manufacturing 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.**

CT 79 Manufacturing - Internship

(see Work Based Learning pages 27-28)

SPORTS MEDICINE & REHAB SERVICES

ADE/CTE approved program for Sports Medicine and Rehabilitation Services.

HE 91 Prevention and Care of Sports Injuries

Difficulty: Average-High

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.

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

HE 92 Sports Medicine

Difficulty: Average-High

2 Sem. — 1 Practical Arts/Elective Credit

Prerequisites: HE 91

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.**

HE 93 Athletic Training

Difficulty: Avg-High

2 Sem – 1 Practical Arts/Elective Credit

Prerequisite: HE92

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.

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

Difficulty: Average

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

Difficulty: Average

2 Sem. — 1 Practical Arts/Elective Credit

Prerequisite: PA 93

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

Difficulty: Average

2 Sem. — 1 Practical Arts/Elective Credit

Video, TV, and Movie Production 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 learn how to edit video, create graphics, and burn DVDs using industry-standard equipment. 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

Difficulty: Average **2 Sem. — 1 Practical Arts/Elective Credit**

Prerequisite: GV 20

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

Difficulty: Avg-High **2 Sem – 1 Practical Arts/Elective Credit**

Prerequisite: GV 21

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

Difficulty: Average **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

Difficulty: Average **2 Sem. — 1 Practical Arts/Elective Credit**

Prerequisites: IT 71

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

Difficulty: Average **2 Sem. — 1 Practical Arts/Elective Credit**

Prerequisites: IT 72

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

Difficulty: High **2 Sem. — Practical Arts/Elective Credit**

Prerequisites: IT 73

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 52 Agricultural Science - Cooperative Education**CT 53 Agricultural Science - Internship****CT 54 Automotive Technologies - Cooperative Education****CT 55 Automotive Technologies - Internship****CT 56 Biomedical Sciences - Cooperative Education****CT 57 Biomedical Sciences - Internship****CT 58 Biotechnology - Cooperative Education****CT 59 Biotechnology - Internship****CT 60 Computer Technology - Cooperative Education****CT 61 Computer Technology - Internship****CT 62 Construction Technologies - Cooperative Education****CT 63 Construction Technologies - Internship****CT 64 Culinary Arts - Cooperative Education****CT 65 Culinary Arts - Internship****CT 66 Design & Merchandising - Cooperative Education****CT 67 Design & Merchandising - Internship****CT 68 Digital Photography/Publications - Cooperative Education****CT 69 Digital Photography/Publications - Internship****CT 70 Drafting and Design - Cooperative Education****CT 71 Drafting and Design - Internship****CT 72 Education Professions - Cooperative Education****CT 73 Education Professions - Internship****CT 74 Engineering - Cooperative Education****CT 75 Engineering - Internship****CT 76 Financial Services - Cooperative Education****CT 77 Financial Services - Internship****CT 78 Manufacturing - Cooperative Education****CT 79 Manufacturing - Internship****CT 80 Sales & Marketing - Cooperative Education****CT 81 Sales & Marketing - Internship****CT 82 Sports Medicine & Rehab Services - Cooperative Education****CT 83 Sports Medicine & Rehab Services - Internship****CT 84 Theater Design & Management - Cooperative Education****CT 85 Theater Design & Management - Internship**

VERIFY OFFERINGS AT SCHOOL SITE

CAREER AND TECHNICAL EDUCATION

WORK BASED LEARNING

CT 86 Video Production - Cooperative Education

CT 87 Video Production - Internship

CT 88 Welding - Cooperative Education

CT 89 Welding - Internship

CT 90 Cooperative Education

CT 91 Internship

ENGLISH

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

SUBJECT AREA GOAL:**STATE 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**

Difficulty: Average

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 19 Freshman Essentials of English

Difficulty: Low

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. 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.

VERIFY OFFERINGS AT SCHOOL SITE

ENGLISH

***EN 26 IB MYP Freshman English**

Difficulty: High

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**

Difficulty: High

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. **NOTE: This is a weighted course.**

***EN 35 Honors Sophomore English**

Difficulty: High

2 Sem. — 1 English Credit

An enriched, accelerated program in composition and literature, designed for the highly capable and motivated sophomore student. EN 35 takes the place of EN 47. **NOTE: This is a weighted course.**

EN 37 Junior Essentials of English

Difficulty: Low

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. 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

Difficulty: Low

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. 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.

***EN 40 Shakespeare**

Difficulty: Average-High

1 Sem. — ½ English Credit

Prerequisites: EN 47

Designed for students who are interested in studying more of Shakespeare's writings than other courses allow. Students are taught how to analyze Shakespeare's major works.

***EN 41 Critical Thinking and Writing**

Difficulty: High

1 Sem. — ½ English Credit

Prerequisites: EN 47

Critical Thinking and Writing teaches inductive, deductive and analogical reasoning for logical writing, critical analysis and explication of literature. Writing teaches the processes used in problematical research. Benefits college-bound students by giving practice in formal writing techniques.

VERIFY OFFERINGS AT SCHOOL SITE

ENGLISH

***EN 44 Creative Writing**

Difficulty: Average-High 1 Sem. — 1/2 English Credit
Prerequisites: EN 47

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**

Difficulty: High 1 Sem. — 1/2 English Credit
Prerequisites: EN 48

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

***EN 46 Principles of English III**

Difficulty: Average 1 Sem. — 1/2 English Credit
Prerequisites: EN 48

This is a course that requires students to produce argumentative writing, informative/explanatory writing, and narrative writing. An emphasis is placed on production and distribution of writing and research to build and present information. This course also focuses on reading literature and informational text, speaking and listening, conventions of Standard English, and vocabulary skills.

***EN 47 Sophomore English**

Difficulty: Average 2 Sem. — 1 English Credit

This course integrates the principles of survey literature and composition. Course content combines the study and skill of effective writing for a variety of purposes. Writing exercises emphasize the writing process, research, critical and creative thinking, language skills; and are based on literary models. Literature study introduces literary terminology, critical and analytical reading, and appreciation of literature.

***EN 48 Junior English**

Difficulty: Average 2 Sem. — 1 English Credit
Prerequisites: EN 47

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

***EN 49 Senior English**

Difficulty: Average 2 Sem. — 1 English Credit
Prerequisites: EN 48

Senior English is a year-long course that integrates writing for a variety of purposes and audiences with literature study. 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 (western civilization, world and English literature, multicultural literature, mythology, science fiction and fantasy literature) is surveyed.

***EN 50 Senior Literature**

Difficulty: Low 1 Sem. — 1/2 English Credit

Designed specifically for seniors who are interested in a general survey of the literature as opposed to the more specific, advanced literature courses. EN 50S: 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 52 Mythology**

Difficulty: Average-High 1 Sem. — 1/2 English Credit
Prerequisites: EN 47

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**

Difficulty: Low - Average 1 Sem. — 1/2 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.

***EN 56 Multicultural Literature**

Difficulty: Average 1 Sem. — 1/2 English Credit
Prerequisites: EN 47

This course offers the study of a variety of literary genres which are representative of the cultural diversity in the United States. Course content includes, but is not exclusive to, themes and authors from African, Hispanic, and Native American cultures. Course work includes critical reading and thinking, participation in discussion, composition, and research.

***EN 58 Honors American History & Literature**

Difficulty: High 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**

Difficulty: Average-High 1 Sem. — 1/2 English Credit
Prerequisites: EN 47

A survey of the literature which reflects the culture of England from Beowulf to the present. Emphasis is placed on the works of major English authors and literary movements. Recommended for the college-bound student.

EN 61 Native American Literature

Grade: 12 1 Sem. — 1/2 English Credit
Difficulty: Average-High

This course offers the study of a variety of literary genres which are representative of the tribes throughout Arizona and the United States. The course content includes, but is not exclusive to, themes and authors from the Apache, Ft. McDowell, Gila and Salt Rivers, Hopi, Navajo and Pima-Maricopa tribes. Coursework includes critical reading and thinking, participation in class discussions, composition and research.

***EN 62 World Literature**

Difficulty: Average-High 1 Sem. — 1/2 English Credit
Prerequisites: EN 47

Encourages students to explore universal themes in literature and to read analytically the works of some of the greatest writers of all time. Gives students a good background in western civilization through the study of various world cultures. Recommended for the college-bound student.

VERIFY OFFERINGS AT SCHOOL SITE

ENGLISH

***EN 63 Holocaust Literature**

Difficulty: Average **1 Sem. — ½ English Credit**
Prerequisites: EN 35 or EN 48

An exploration of the Holocaust that mainly focuses on literature written both during and after the event. There will also be an emphasis on history and sociology in order to understand the background of the politics and the time period.

***EN 64 English Composition 102**

Difficulty: Average-High **1 Sem. — ½ English Credit**

Emphasis on rhetoric and composition with a focus on persuasive, research-based writing and understanding writing as a process. Developing advanced college-level writing strategies through three or more writing projects comprising at least 4,000 words in total. Students may be required to take the ASSET test to be eligible for enrollment. This course parallels with the course taught in college.

***EN 65 IB MYP Sophomore English**

Difficulty: High **2 Sem — 1 English Credit**
Prerequisites: EN 26 or EN 27

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.**

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

Difficulty: High **4 Sem — 2 English Credits**
Prerequisites: IB Diploma Programme Student

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**

Difficulty: Average **1 Sem. — ½ English Credit**
Prerequisites: EN 47

Technical Writing emphasizes clarity, precision and conciseness in writing that explains, analyzes and defines real world business and technical topics to prepare students for college and career experiences. It stresses writing for a specific purpose and specific audience to be effective in college or career writing tasks such as letters, memos, forms, proposals, directions, reports, essays and summaries.

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

Difficulty: High **2 Sem. — 1 English Credit**

To prepare highly motivated junior students for the AP Language & Composition Exam. Focus is on rhetorical strategies, critical thinking, and advanced composition skills. This course fulfills the Junior English requirement. 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

ENGLISH

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

Difficulty: High **2 Sem.—1 English Credit**

To prepare students for the advanced placement examinations. Involves college level reading and writing. This course fulfills the senior English requirement. 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.**

***EN 72 English Composition 101**

Difficulty: Average - High **1 Sem. — ½ English Credit**

Emphasis on rhetoric and composition with a focus on expository writing and understanding 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 may be required to take the ASSET test to be eligible for enrollment. This course parallels with the course taught in college.

EN 73 Speech/Communications Arts

Difficulty: Average-High **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

Difficulty: Average-High **1 Sem. — ½ English Credit**

For students interested in extracurricular debate tournaments and contests or those who desire to learn debating techniques. Students may elect to study debate for the entire semester without extracurricular participation in interscholastic debate meets. Types and techniques of debate are explored. Research techniques are reviewed and practiced.

EN 75 Advanced Speech & Debate

Difficulty: High **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.**

***EN 80 Humanities**

Difficulty: Average-High **1 Sem. — ½ English Credit**
Prerequisites: EN 47

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 81 Fundamental Writing Lab

Difficulty: Low **1 Sem. — ½ English Credit**

An intervention writing class for seniors who need further help with their writing skills. Emphasis on producing clear and coherent arguments, informative/explanatory, and narrative writing pieces. EN 81S: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student.

EN 84 Journalism I

Difficulty: Average **1 Sem. — ½ English Credit**

Prerequisites: Typing recommended

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.

VERIFY OFFERINGS AT SCHOOL SITE

ENGLISH

EN 86 Yearbook Publications

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

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

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

Difficulty: Average **1 Sem. — ½ English Credit**
Prerequisites: Journalism I recommended

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 88 Approaches to Literature

Difficulty: Low **1 Sem. — ½ English Credit**

A reading/literature class for seniors to help develop basic reading skills with emphasis on reading and understanding short literary selections from several genres, reading comprehension, vocabulary development, and reading efficiency techniques. This course cannot be repeated for additional elective credit. EN 88S: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student.

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

Difficulty: High **2 Sem. — 1 English Credit**

Grade: 11

Prerequisite: EN 35 or EN 65

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**

Difficulty: High **2 Sem. — 1 English Credit**

Grade: 12

Prerequisite: EN 91

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

VERIFY OFFERINGS AT SCHOOL SITE

ENGLISH

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.**

ENGLISH LANGUAGE DEVELOPMENT (ELD)**ELD 11 Introduction to English Grammar I**

Difficulty: Average **2 Sem. — 1 English Credit**

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

This course introduces students to foundational English language grammar and structure. Students will study basic syntactic elements of English (nouns, verbs, modifiers, etc.) along with phonetic and semantic aspects of the language. Word construction is also taught, as well as how to produce the four kinds of sentences in English (declarative, imperative, interrogative, and exclamatory). Students are expected to study and be able to identify all eight parts of speech.

ELD 12 Introduction to English Reading I

Difficulty: Average **2 Sem. — 1 Elective Credit**

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

In a highly structure environment, students will move from sound to text by focusing on simple and closed syllables consisting of short vowels and stable consonants. Reading and spelling of high frequency words and unit vocabulary will aid in reading of and writing about text. Students will learn the importance of fluency, vocabulary, and summarizing in the development of reading comprehension.

ELD 13 Introduction to Conversational English and Academic Vocabulary I

Difficulty: Average **2 Sem. — 1 Elective Credit**

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

This course is designed to provide students new to English with basic oral and aural competence in a wide variety of English language settings. Students will develop receptive and expressive English skills, while they also learn basic elements of the sound system and alphabet. Most coursework focuses on helping students to develop English skills that are immediately useful in school, classroom and community settings. An emphasis is placed on introducing a wide range of relevant content vocabulary words. Students also learn about academic culture related to school success, as well as student life skills for understanding school, community, regional and national cultures.

ELD 14 Introduction to English Writing I

Difficulty: Average **2 Sem. — 1 Elective Credit**

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

This course is designed to provide students with a foundation to English writing. Students in this course receive direct instruction in grammar, sentence expansion and writing forms (paragraphs, essay descriptive, narrative, and first person). Students will learn specific skills for pre-writing, draft composition, and editing using a process writing format. Students also are responsible for learning the spelling of a list of commonly used English words.

VERIFY OFFERINGS AT SCHOOL SITE

ENGLISH LANGUAGE DEVELOPMENT (ELD)

ELD 21 Intermediate English Grammar II**Difficulty:** Average **2 Sem. — 1 English Credit****Prerequisite:** Home language other than English and AZELLA Overall**Proficiency Level at Intermediate**

This course extends students' proficiency of English language grammar and structure. Students will study advanced syntactic elements of English (nouns, verbs, modifiers, etc.) along with phonetic and semantic aspects of the language. Word study skills are developed, as well as production of more complex sentences containing conjunctions, transitions and prepositional phrases. Students are expected to be able to identify and apply all eight parts of speech.

ELD 22 Intermediate English Reading II**Difficulty:** Average **2 Sem. — 1 Elective Credit****Prerequisite:** Home language other than English and AZELLA Overall**Proficiency Level at Intermediate**

This is an intermediate English reading course for students whose first language is not English. Students will extend proficiency of reading skills in four areas: word analysis, fluency and vocabulary, comprehension, and literary analysis and response. Students will continue to use sequential reading instructional materials at their level for further development of content area and narrative reading tasks. Students receive instruction to expand development of sight word vocabulary, and improve reading fluency and decoding skills.

ELD 23 Intermediate Conversational English and Academic Vocabulary II**Difficulty:** Average **2 Sem. — 1 Elective Credit****Prerequisite:** Home language other than English and AZELLA Overall**Proficiency Level at Intermediate**

This course is designed to provide students new to English with advanced oral and aural competence in a wide variety of English language settings. Students will demonstrate correct use of receptive and expressive English skills. Most coursework focuses on continued development of English skills for social and academic conversations. An emphasis is placed on expanding the range of relevant content vocabulary words. Students continue to refine conversational skills related to academic success, as well as student life skills for understanding school, community, regional and national cultures.

ELD 24 Intermediate English Writing II**Difficulty:** Average **2 Sem. — 1 Elective Credit****Prerequisite:** Home language other than English and AZELLA Overall Proficiency Level at Intermediate

This course is designed to provide students advanced instruction in aspects of English writing. Students in this course receive instruction in grammar, sentence expansion and writing forms (paragraphs, essay descriptive, narrative, and first person). Students continue to refine skills in pre-writing, draft composition, and editing using a process writing format. Students are expected to demonstrate correct spelling of commonly used English words.

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's College and Career Ready Standards for Mathematics.

MA 27 Algebra I*Difficulty:** Average**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 five critical areas: (1) relationships between quantities and reasoning with equations; (2) linear and exponential relationships; (3) descriptive statistics; (4) expressions and equations; and (5) quadratic functions and modeling. 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*Difficulty:** Average**2 Sem. — 1 Math Credit****Prerequisites:** MA 27

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 six critical areas: (1) congruence, proof, and constructions; (2) similarity, proof and trigonometry; (3) extending to three dimensions; (4) connecting algebra and geometry through coordinates; (5) circles with and without coordinates; and (6) applications of probability. 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*Difficulty:** High**2 Sem. — 1 Math Credit****Prerequisite:** MA 27 and teacher recommendation

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 six critical areas: (1) congruence, proof, and constructions; (2) similarity, proof and trigonometry; (3) extending to three dimensions; (4) connecting algebra and geometry through coordinates; (5) circles with and without coordinates; and (6) applications of probability. 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**Difficulty:** Average**1-2 Sem. — ½ - 1 Math Credit****Prerequisite:** MA 27 and MA 30

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**Difficulty:** Average**2 Sem. — 1 Math Credit****Prerequisites:** MA 27 and MA 30

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

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) polynomials, rational and radical relationships; (2) trigonometric functions; (3) modeling with functions; and (4) connecting algebra and geometry through inferences and conclusions from data.

MA 41 Honors Algebra II*Difficulty:** High**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) polynomials, rational and radical relationships; (2) trigonometric functions; (3) modeling with functions; and (4) connecting algebra and geometry through inferences and conclusions from data. **NOTE: This is a weighted course.**

MA 42 College Algebra/Trigonometry (Precalculus)*Difficulty:** High**2 Sem. — 1 Math Credit****Grades:** 11-12**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*Difficulty:** Average**2 Sem. — 1 Math Credit****Grades:** 11-12**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.

VERIFY OFFERINGS AT SCHOOL SITE

MATHEMATICS

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

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*Difficulty:** High**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*Difficulty:** High**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*Difficulty:** High**2 Sem. — 1 Math Credit****Grades:** 11 & 12**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.**

MA 60 Math Skill Builder**Difficulty:** Average**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 91 & 92 IB Mathematics Standard Level I & II*Difficulty:** High**4 Sem. — 2 Math Credits****Grades:** 11 & 12**Prerequisites:** Grade of "B" or better in MA 40 (MA 41 strongly recommended)

This is a 2-year mathematics sequence for students with a strong math background to prepare them for future studies in science, math, economics, or business administration. The coursework includes functions, trigonometry, vectors, matrices, probability & statistics and calculus topics. The use of a graphing calculator is required. IB requires a portfolio of student work and two written examinations to complete the coursework. These courses are part of the IB Diploma Programme. **NOTE: These are weighted courses.**

VERIFY OFFERINGS AT SCHOOL SITE

MATHEMATICS

***MA 93 & 94 IB Math Studies Standard Level I & II**

Difficulty: High **4 Sem. — 2 Math Credits**
Grades: 11 & 12

Prerequisites: MA 40

Designed for the student whose main interests lie outside the field of mathematics. Topics covered include algebra, probability, statistics and geometry. These courses are part of the IB Diploma Programme.

***MA 96 IB Mathematics Higher Level I**

Difficulty: High **2 Sem. — 1 Math Credit**
Grade: 11

Prerequisites: IB Coordinator Approval and MA 91 or MA 45

This is the first year of the IB Mathematics Higher Level sequence for students with a strong math background to prepare them for future studies in science, mathematics, economics, or business administration. The course work includes functions, vectors, probability and statistics, differential calculus, and an introduction to formal proofs. The use of a graphing calculator is required, IB requires an internal assessment of student projects 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 98 IB Higher Mathematics Level II**

Difficulty: High **2 Sem. — 1 Math Credit**
Grade: 12

Prerequisites: MA 96 IB Mathematics Higher Level I

This is the second year of the IB Mathematics Higher Level sequence for students with a strong math background to prepare them for future studies in science, mathematics, trigonometry, vectors, statistics, differential and integral calculus, series, differential equations, and proof. The use of a graphing calculator is required. IB requires an internal assessment of student projects 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 99 Independent Study

VERIFY OFFERINGS AT SCHOOL SITE

MILITARY 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.

The following applies to all Army JROTC LET classes:

The Army JROTC Program prepares high school cadets for responsible leadership roles while making them aware of their rights, responsibilities and privileges as American citizens. The program is a stimulus for promoting graduation from high school and provides instruction and rewarding opportunities which will benefit the cadet, community and nation.

MS 31 Army JROTC LET-I

Difficulty: Average **2 Sem. — 1 Practical Arts/Elective Credit**

Introduction to leadership and citizenship. Cadets gain an understanding of their rights, responsibilities (including respect for constituted authority), privileges and freedoms that underlie good citizenship. They learn the importance of citizenship through American History as it relates to America's culture and future from the Revolutionary period to the present. They must demonstrate the ability to think logically and communicate effectively, with emphasis on effective oral communication. 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

Difficulty: Average **2 Sem. — 1 Practical Arts/Elective Credit**

Prerequisites: Must have completed Army JROTC LET-I

This course allows the student to develop effective writing skills by writing an autobiography, a short position paper, a research/term paper and a lesson plan for a class which they will teach. 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. Student will receive instruction on the military involvement in conflicts from World War II through the present. Students will get an understanding of present-day technology; laws that were passed to safeguard an individual's privacy, the history and components of computers.

MS 33 Army JROTC LET-III

Difficulty: Average **2 Sem. — 1 Practical Arts/Elective Credit**

Continue to develop leadership and character traits. Students will 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 that were the basis for establishing the armed forces.

VERIFY OFFERINGS AT SCHOOL SITE

MILITARY SCIENCE/LEADERSHIP ARMY JROTC

MS 34 Army JROTC LET-IV

Difficulty: Average **2 Sem. — 1 Practical Arts/Elective Credit**
Continue to develop leadership and character traits. As senior cadets the student will assist in instructing the younger cadets while completing a "Self-paced course of instruction." Emphasis will be 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.

MS 35 Special Teams

Difficulty: Average **1 Sem. — ½ PE/Practical Arts/Elective Credit**
Prerequisites: All students must be enrolled in AJROTC, and be willing to spend time practicing with your assigned team.

An "A" hour program in which cadets can participate in exhibition drill teams. The purpose is to introduce cadets to the teamwork of precision drill to build self-confidence and strengthen self-esteem. Drill is a very positive activity that instills a heightened sense of discipline and leadership. The drill teams consist of Color Guard, Unarmed Drill, Armed Drill, Marksmanship, and Raiders/Orienteering. Each team also participates in competition 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 M-1 rifles at various competitions and community activities. Unarmed Drill performs both regulation and exhibition drill without weapons. Marksmanship competes at various competitions with .177 caliber air-rifles in three different firing positions. The Raiders/Orienteering team focus on land navigation and competes in various competition meets within the state. This is the most physically challenging of all of the extracurricular activities. **NOTE: Hands only CPR will be taught to fulfill Arizona State Statute requirements.**

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

Difficulty: Beginning **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.

VERIFY OFFERINGS AT SCHOOL SITE

MUSIC/PERFORMING ARTS

MU 29 Beginning Guitar

Difficulty: Beginning **1 Sem. — ½ 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

Difficulty: Average **1 Sem. — ½ 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.**

MU 31 Advanced Guitar

Difficulty: Average-High **1 Sem. — ½ 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

Difficulty: Average **1 Sem. — ½ Fine Arts/Elective Credit**
Prerequisites: None

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

Difficulty: High **2 Sem. — 1 Fine Arts/Elective Credit**
Prerequisites: Teacher recommendation

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

Difficulty: Average **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.

VERIFY OFFERINGS AT SCHOOL SITE

MUSIC/PERFORMING ARTS

MU 71 Men's Chorus

Difficulty: Beginning-Average **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

Difficulty: Beginning-Average **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

Difficulty: Average-High **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

Difficulty: Beginning-Average **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

Difficulty: High **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

Difficulty: High **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

Difficulty: High **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

Difficulty: Average **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

Difficulty: Average **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

Difficulty: Average **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

Difficulty: Average-High **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

Difficulty: Average **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

Difficulty: Average-High **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

Difficulty: High **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 86 Jazz Band

Difficulty: High **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

Difficulty: Average **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

Difficulty: Average-High **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.**

MU 92 Symphony Orchestra

Difficulty: Average-High **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

Difficulty: Average-High **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.**

VERIFY OFFERINGS AT SCHOOL SITE

MUSIC/PERFORMING ARTS

MU 94 Chamber Orchestra

Difficulty: Average-High **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

Difficulty: Average **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

Difficulty: Average **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

Difficulty: High **2 Sem. — 1 Fine Arts Credit**
Grades 11-12

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

Difficulty: Average **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.

PA 76 Beginning Acting

Difficulty: Average **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

Difficulty: Average-High **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.

VERIFY OFFERINGS AT SCHOOL SITE

MUSIC/PERFORMING ARTS

PA 89 Stagecraft

Difficulty: Average **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

Difficulty: Average **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

Difficulty: Average **1 Sem. — ½ Fine Arts Credit**
Prerequisites: PA 90

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

Difficulty: Average-High **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**

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

Difficulty: Average **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.

VERIFY OFFERINGS AT SCHOOL SITE

PHYSICAL EDUCATION

PE 37 Recreational Basketball

Difficulty: Average **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

Difficulty: Individualized **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

Difficulty: Average **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.

Difficulty: Individualized **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.

PE 47 P.E. Activities

Difficulty: Average **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 50 AA Interscholastic Athletics (Sports)

Difficulty: Average-High **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

Difficulty: Average **1 Sem. — ½ PE/Elective Credit**
Prerequisites: "A" or "B" in PE 53

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.

VERIFY OFFERINGS AT SCHOOL SITE

PHYSICAL EDUCATION

PE 53 Complete Fitness/Aerobics

Difficulty: Average 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

Difficulty: Average-High 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

Difficulty: Varied 1 or 2 Sem. — ½ or 1 PE/Elective Credit
Prerequisites: Some experience
 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

Difficulty: Average-High 1 Sem. — ½ PE/Elective Credit
Prerequisites PE 55
 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

Difficulty: Varied 1 Sem. — ½ PE/Elective Credit
Prerequisites: Some experience
 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.

PE 70 Beginning Dance

Difficulty: Average 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

Difficulty: Intermediate 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.

VERIFY OFFERINGS AT SCHOOL SITE

PHYSICAL EDUCATION

PE 72 Advanced Dance

Difficulty: Advanced 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

Difficulty: Average 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

Difficulty: Average-High 1 or 2 Sem. — ½ or 1 PE/Fine Arts/Elective Credit
Prerequisites: Audition
 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

Difficulty: Individualized 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.

PE 78 Advanced Weight Training

Difficulty: Individualized 1 Sem. — ½ PE/Elective Credit
Prerequisites: "A" or "B" in PE 76
 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

Difficulty: Average 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

Difficulty: Average 1 Sem. — ½ PE/Elective Credit
Prerequisites: PE 79
 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

Difficulty: Average 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.

VERIFY OFFERINGS AT SCHOOL SITE

PHYSICAL EDUCATION

PE 83 Pilates Mat**Difficulty: Average****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**Difficulty: Average****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 Injuries**Difficulty: Average-High****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.

HE 92 Sports Medicine**Difficulty: Average-High****2 Sem. — 1 Practical Arts/Elective Credit****Prerequisite: HE 91**

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.**

PE 99 Independent Study**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.

VERIFY OFFERINGS AT SCHOOL SITE

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 09 Essential Elements of Science**

Difficulty: Average **2 Sem. — 1 Integrated Science Credit**

SC 09 is the entry level science course for high school and provides the conceptual foundation for the entire MPS high school science curriculum. Students in SC 09 receive instruction and practice in developing and refining scientific skills and methods that are prerequisites for success in subsequent high school science courses. Using mostly chemistry and physics concepts as a framework, students discover and collect evidence that supports the atomic/ molecular theory of matter. These principles lay the groundwork for understanding all biological and chemical relationships. Topics included in this class are scientific processes, the nature and history of science, earth science, basic physics and chemistry. This course is considered an integrated science course in meeting the General Arizona University Entrance Requirements (see page 14).

***SC 33 Earth and Space Science**

Difficulty: Average **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.

***SC 34 IB MYP Biology**

Difficulty: High **2 Semesters – 1 Biological Science Credit**

Grade Level: 9

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.**

VERIFY OFFERINGS AT SCHOOL SITE

SCIENCE

***SC 35 IB Biology Standard Level**

Difficulty: High **2 Sem. — 1 Biological Science Credit**
Grade: 11 or 12

Prerequisites: SC49, SC71, or SC72

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

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

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**

Difficulty: High **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**

Difficulty: High **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.**

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

Difficulty: Average-High **2 Sem. — 1 Additional Science/Practical Arts Credit**
Prerequisites: SC 49 or SC 45 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.**

VERIFY OFFERINGS AT SCHOOL SITE

SCIENCE

***SC 49 Biology**

Difficulty: Average **2 Sem. — 1 Biological Science Credit**
Prerequisite: See page 9 *

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**

Difficulty: Average **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**

Difficulty: High **2 Sem. — 1 Physical Science Credit**
Grades 11-12

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**

Difficulty: High **2 Sem. — 1 Additional Science/Practical Arts Credit**
Prerequisites: SC 48

This course is designed as a continuation of 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 55 Human Anatomy and Physiology**

Difficulty: Average-High **2 Sem. — 1 Additional Science Credit**
Prerequisites: 1 year Biology

A rigorous lab-oriented course providing students a better understanding of their bodies and exposure to health care career opportunities. **NOTE: This course involves the detailed study of the human reproductive system. This course will include dissection.**

***SC 71 Chemistry**

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

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.

***SC 72 Honors Chemistry**

Difficulty: High **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.**

VERIFY OFFERINGS AT SCHOOL SITE

SCIENCE

***SC 75 Ecology of Marine Ecosystems**

Difficulty: Average-High **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**

Difficulty: High **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**

Difficulty: High **2 Sem. — 1 Physical Science/Elective Credit**
Prerequisites: MA40 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**

Difficulty: High **2 Sem. — 1 Physical Science/Elective Credit**
Prerequisite: SC 79 AP Physics 1 & co-enrollment in MA45 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.**

***SC 81 Physics**

Difficulty: Average **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**

Difficulty: High **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.**

VERIFY OFFERINGS AT SCHOOL SITE

SCIENCE

SC 92 Scientific Research Methods**Difficulty:** Average-High **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.

SC 93 & SC 94 IB Biology Higher Level I & II*Difficulty:** High **4 Sem.** — 2 Biological Science Credit**Grades:** 11-12**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*Difficulty:** High **2 Sem.** — 1 Physical Science Credit**Grades:** 11-12**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*Difficulty:** High **4 Sem.** — 2 Physical Science Credit
Grades: 11-12**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**Difficulty:** Average-High **2 sem.** — 1 Additional Science/Practical Arts Credit**Prerequisites:** HE 71

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. **NOTE: Course fee required.**

AG 30 Applied Biological Systems*Difficulty:** Average**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.

AG 31 Animal Science**Difficulty:** Average **2 Sem.** — 1 Additional Science/Practical Arts Credit**Prerequisites:** AG 30

This course is designed to introduce students to the fundamentals of animal anatomy, physiology, genetics, reproduction, growth, nutrition, health, and agribusiness principles. Students will work with small and large animals on the land lab. Leadership development is provided through FFA. **NOTE: Course fee required.**

AG 35 Veterinary Science**Difficulty:** Average-High **2 Sem.** — 1 Additional Science/Practical Arts Credit**Prerequisites:** AG 31

This course is designed to develop skills of students with an in-depth focus of anatomy and physiology of various animals. Also 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: Course fee required.**

VERIFY OFFERINGS AT SCHOOL SITE

SCIENCE

AG 51 Plant Science**Difficulty: Avg-High** 2 Sem. — 1 Additional Science/Practical Arts Credit

This course is designed to teach the fundamentals of growing plants using biotechnology in propagating, using grafting, cuttings, seedlings and tissue culturing (via cloning, explants, etc.). DNA extraction and gene splicing will be taught for the production of disease resistance plants as well as plants used for medicine.

Greenhouse management is crucial in growing the new generation of biotech plants. Skills taught include recognizing fertilizer deficiencies, plant diseases, insect damage, environmental deficiencies, applying growth stimulants and retardants, and plant identification. Students will grow bedding and container plants for school projects. Leadership development is provided through FFA. **NOTE: Course fee required.**

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.**

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**Difficulty: Average**

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*Difficulty: Average**

2 Sem. — 1 Social Studies Credit

The course 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.**

VERIFY OFFERINGS AT SCHOOL SITE

SOCIAL STUDIES

SS 26 IB MYP World History/Geography*Difficulty: High**

2 Sem. — 1 Social Studies Credit

Grade: 9**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*Difficulty: High**

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.**

SS 32 Honors American History & Literature*Difficulty: High**

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*Difficulty: Average**

2 Sem. — 1 Social Studies Credit

This course examines the history of the United States beginning with Pre-Columbian Native cultures of the North American continent through contemporary issues affecting the United States today. **NOTE: This course meets the high school graduation requirement for American/Arizona History.**

SS 36 IB MYP Honors American History*Difficulty: High**

2 Sem. — 1 Social Studies Credit

Grade: 10**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.**

VERIFY OFFERINGS AT SCHOOL SITE

SOCIAL STUDIES

SS 39 AP United States History*Difficulty: High****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**Difficulty: Average****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**Difficulty: Average****1 Sem. — ½ Elective Credit****Grade: 10 - 12**

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.

SS 50 AP World History*Difficulty: High****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*Difficulty: Average****1 Sem. — ½ Social Studies Credit****Prerequisites: 1 year of American History**

The fundamentals of government on the national, state and local levels will be examined, including the three branches of government, rights and responsibilities of American citizenship, and the development and role of political parties. **NOTE: This course meets the graduation requirement for Government.**

SS 52 AP United States Government and Politics*Difficulty: High****2 Sem. — 1 Social Studies Credit****Prerequisites: 1 year American History**

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*Difficulty: High****2 Sem. — 1 Social Studies Credit****Prerequisites: 1 year American History**

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*Difficulty: High****2 Sem. — 1 Elective Credit****Prerequisite: Teacher approval**

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*Difficulty: Average****1 Sem. — ½ Social Studies Credit****Prerequisite: 1 year of American History**

Familiarizes the student with basic principles of economics, with an emphasis on capitalism and resource allocation. Included are the principles of financial management and career planning. Close attention is given to micro and macro economic applications. SS 57S: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student. **NOTE: This course meets the high school graduation requirement for Economics.**

SS 59 We the People*Difficulty: High****2 Sem. — 1 Social Studies Credit****Prerequisites: Teacher Recommendation**

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**Difficulty: Average****2 Sem. — 1 Elective Credit****Grade Level: 10**

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**Difficulty: Average****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*Difficulty: High** 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. **NOTE: This is a weighted course.**

SS 67 AP Human Geography*Difficulty: High** 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**Difficulty: Average** 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 76 Psychology I*Difficulty: Average** 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*Difficulty: Average** 1 Sem. — ½ Elective Credit**Prerequisites: SS 76**

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*Difficulty: Average** 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.

SS 79 AP Psychology*Difficulty: High** 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.**

VERIFY OFFERINGS AT SCHOOL SITE

SOCIAL STUDIES

SS 80 Sports Psychology**Difficulty: Average** 1 Sem. — ½ Elective**Grade Level: 11-12****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 83 IB Political Thought Standard Level*Difficulty: High** 2 sem. – 1 Social Studies Credit**Grade: 11-12**

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 84 & SS 85 IB Business Management Higher Level I & II*Difficulty: High** 4 sem. – ½ Social Studies Credit/1½ Elective Credit**Grade: 11 – 12**

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*Difficulty: High** 1 Sem. — ½ Social Studies Credit**Grade: 12****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.**

SS 87 AP Macroeconomics*Difficulty: High** 1 Sem. — ½ Social Studies Credit**Grade: 12****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.**

VERIFY OFFERINGS AT SCHOOL SITE

SOCIAL STUDIES

***SS 88 IB Economics Standard Level**

Difficulty: High 2 Sem. — 1 Social Studies Credit
Grades: 11-12

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**

Difficulty: High 2 Sem. — 1 Elective Credit
Grades: 11-12

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**

Difficulty: High 4 Sem. — 2 Elective Credits
Grades: 11-12

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**

Difficulty: High 2 Sem. — 1 Fine Arts/Elective Credit
Grades: 11-12

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**

Difficulty: High 2 Sem. — 1 Elective Credit
Grade: 11

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**

Difficulty: High 2 Sem. — 1 Elective Credit
Grade: 12

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**Difficulty:** Average**1 Sem. — ½ Elective Credit****Grades:** 10-12**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*Difficulty:** Average-High**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*Difficulty:** Average-High**2 Sem. — 1 WL Credit****Prerequisites:** Level I Proficient

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*Difficulty:** Avg-High**2 Sem. — 1 WL Credit****Prerequisites:** Level II Proficient

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****Difficulty:** Average-High**2 Sem. — 1 WL Credit****Prerequisites:** Average or above average in English

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****Difficulty:** Average-High**2 Sem. — 1 WL Credit****Prerequisites:** Level I Proficient

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****Difficulty:** Average-High**2 Sem. — 1 WL Credit****Prerequisites:** Level II Proficient

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****Difficulty: Average-High** 2 Sem. — 1 WL Credit**Prerequisites: Level III Proficient**

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*Difficulty: Average-High** 2 Sem. — 1 WL Credit**Grade: 11-12****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*Difficulty: High** 2 Sem — 1 Elective/WL Credit**Prerequisites: WL 94 or WL 90**

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*Difficulty: Average-High** 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*Difficulty: Average-High** 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.

WL 90 IB Spanish Standard Level*Difficulty: High** 2 Sem. — 1 Elective/WL Credit**Grade: 11-12****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*Difficulty: High** 2 Sem. — 1 Elective/WL Credit**Grade: 11-12****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*Difficulty: High** 2 Sem. — 1 Elective/WL Credit**Grade: 11-12****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

VERIFY OFFERINGS AT SCHOOL SITE

STUDENT ASSISTANT PROGRAM

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.

NON-CREDIT

NC 40 RELEASED TIME-PERSONAL

(for religious purposes—A.R.S. §15-806)

No Credit

NC 50 STUDY HALL

No Credit

NC 60 LUNCH

All high schools

No Credit

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

Difficulty: High

2 Sem. — 1 Fine Arts/Elective Credit

Prerequisites: See Student Advisor

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

Difficulty: Average

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

Difficulty: Average

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.

VERIFY OFFERINGS AT SCHOOL SITE

SPECIAL COURSE NUMBERS

CP 20 AP Capstone: AP Seminar**Difficulty: High****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.**

CP 21 AP Capstone: AP Research**Difficulty: High****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. SK 10 Study Skills: Course may be taken only upon teacher approval. Course content and instruction will be differentiated to meet the specialized needs of the student.

ST 20 Leadership**Difficulty: Average****1 Sem. — ½ Elective Credit****Prerequisites: Teacher recommendation**

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.

ST 92 Student Council**1 Yr. — 1 Elective Credit**

Designed for students elected to the Student Council.

ST 94 Service Learning/Community Engagement**Difficulty: Average****1 or 2 Sem. — ½ Elective Credit****Grade: 9-12**

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.

VERIFY OFFERINGS AT SCHOOL SITE

CAREER EXPLORATION PROGRAM

WE 90 Career Exploration Program**Difficulty: Variable****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**Difficulty: Low****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**Difficulty: Low****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**Difficulty: Low****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.

EN 37C Connected Junior Essentials of English**Difficulty: Low****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**Difficulty: Low****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.

VERIFY OFFERINGS AT SCHOOL SITE

ADDITIONAL ACADEMIC COURSES

II 03S Individual Instruction

Difficulty: Low **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

Difficulty: Low **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

Difficulty: Low **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

Difficulty: Low **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

Difficulty: Low **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.

PP 04S Personal Management

Difficulty: Low **2 - 6 Sem. — ½ Elective Credit/Sem.**
The student will demonstrate methods of understanding and accepting self as a responsible and contributing member of the family, employment group, and community. Includes personal and social development, household management, community and agency resources, and consumer skills. Course content and pace of instruction will be differentiated to meet the specialized needs of the student.

PP 19S Community Awareness

Difficulty: Low **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.

VERIFY OFFERINGS AT SCHOOL SITE

ADDITIONAL ACADEMIC COURSES

PP 21S Career Planning Strategies

Difficulty: Low **1 or 2 Sem. — ½ or 1 Elective Credit**
Career Planning Strategies is a specialized class that provides the students with the skills necessary to understand the realistic expectations of employment. Students will complete vocational assessments such as interest inventories, aptitude assessment and value surveys. In addition, the students will develop self-determination skills, research careers, and identify career expectations.

PP 23S Career Exploration

Difficulty: Low **1 or 2 Sem. — ½ or 1 Elective Credit**
The purpose of career exploration is for students to explore possible career and vocational options to assist students in determining which skills are needed to obtain a position in their field of interest. Areas addressed will include career data based searches, interest inventories and self advocacy. Methods to be incorporated will include guest speakers, hands on activities, technological and personal experiences.

PP 28S On-The-Job Training

Difficulty: Low **1 or 2 Sem. — ½ or 1 Elective Credit**
The On the Job Training program 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 work readiness skills and receive advanced training to prepare them for post secondary job placement.

PP 29S Community Work Experience

Difficulty: Low **2 Sem. — 3 Elective 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 36S Secondary Work Experience

Difficulty: Low **1 or 2 Sem. — ½ or 1 Elective Credit**
SWEP is a vocational course that provides job readiness experience while training on a job site generally within the school or community. Students are in the classroom 1 hour per day and then spend a minimum of 225 minutes per week in a training environment. Students receive credit toward graduation but are not paid for these work experiences.

PP 37S Alternative Work Experience

Difficulty: Low **1 or 2 Sem. — ½ or 1 Elective Credit**
AWE is a work adjustment course that provides job readiness experience while training in a job site generally within the school through on-campus work experience or in-district internships. Students receive credit toward graduation for these work experiences. The program can be used as a prerequisite to Community Work Experience. Job sites are individually tailored to help the student's transition from a school work site to training in a paid work site.

PP 51S Life Skills

Difficulty: Low **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

Difficulty: Low **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.

VERIFY OFFERINGS AT SCHOOL SITE

VERIFY OFFERINGS AT SCHOOL SITE

ADDITIONAL ACADEMIC COURSES

PP 60S Listening/Speaking and Increased Social Skills**Difficulty: Low** 2 Sem. — 1 Elective Credit

This course provides instruction based on Arizona State Standards for listening and speaking. Instruction will focus on communication skills needed for maximum participation and independence within the school.

PP 63S Workplace Skills**Difficulty: Low** 2 Sem. — 1 Elective Credit

This course includes appropriate opportunities/activities for training students to acquire and perform meaningful work skills and habits in a variety of integrated work environments.

PP 80S Physical Education**Difficulty: Low** 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**Difficulty: Low** 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**Difficulty: Low** 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**Difficulty: Low** 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**Difficulty: Low**

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****Difficulty: Low** 2 Sem — 1 English 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 | 2017-2018 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

<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 10 East Valley school districts - Apache Junction, Chandler, Fountain Hills, Gilbert, Mesa, Queen Creek, Scottsdale, Tempe, Higley and J.O. Combs. Classes are offered at two centralized campuses in Mesa - the Dr. A. Keith Crandell (Main) Campus, 1601 W. Main St., and the East Campus, 6625 S. Power Road - 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 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

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 or EVIT counseling offices or on

EVIT.com. Each high school has at least one designated counselor or with materials and information regarding EVIT registration. For more information, call 480-461-4000 or visit EVIT.com.

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) also 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 Program by Campus

Note: Subject to change or adjustment based on variety of factors such as student enrollment.

COURSE CODE	PROGRAM NAME	MAIN	EAST	AJ
DA10	3D Animation	X		
CS14	Aesthetics	X		
AM10	Automotive Technologies	X		
AV05	Aviation		X	
BK10	Banking and Financial Services	X		
MC65	Behavior, Mental and Social Health Services	X	X	
IT20*	Cisco Networking Academy*	X		
AB10	Collision Repair	X		
CU20	Commercial Baking and Pastry Arts	X		
IT40*	Computer Programming and Mobile App Design*	X		
CT10	Construction	X		X
CS10	Cosmetology	X	X	
CU10	Culinary Arts	X		X
MC60*	Dental Careers*	X		
AM63	Diesel Technologies	X		
IT30*	Digital Device Diagnostic and Repair*	X		
CC10	Early Childhood Education	X		
ED10	Education Professions	X		
MC55*	Emergency Medical Technician*	X		
FIT10	Fashion, Interiors and Textiles	X		
FF10	Fire Science	X		
IT60	Future Engineers		X	
MM30*	Graphic/Web Design*	X		
AC10	Heating, Ventilation and Air Conditioning (HVAC)	X		
MC10	Human Anatomy & Physiology for Medical Careers	X	X	
IT10	Information Technology & Engineering Careers (ITEC)	X		
MM10	Introduction to Multimedia Technologies	X		
LE10	Law Enforcement	X		
MT10*	Machining Technology*	X		
MA05	Massage Therapy	X		
MC20*	Medical Assistant*	X	X	
MC30*	Nursing Assistant*	X	X	
MC43*	Pharmacy Technician*	X		
MM20*	Photography*	X		
MC45*	Physical Therapy Technician*	X		
PLB10	Plumbing	X		
RB10	Radio/Audio Production	X		
MT40*	Robotics Engineering*	X		
MC44*	Veterinary Assistant*		X	
TV10	Video Production	X		
WD10	Welding	X		X

*These are second-year courses. Please see pre-requisites.

EVIT Center For Career Advancement

Director - Pauline Acosta

Main Campus: 480-461-4156 • pmacosta@evit.com

High School & Adult Student Services

Registrar - Andrea Macias

Main Campus: 480-461-4108 • amacias@evit.com

High School & Adult: Course Scheduling, Grades, Transcripts, Data Collection & Management, Bi-Lingual Services

High School Counselor - James Martinez

Main Campus: 480-461-4159 • jmartinez@evit.com

Automotive/Diesel, Banking, Barbering, Collision Repair, Construction, HVAC, ITEC Programs, Fire Science, Machining, Welding, 3-D Animation

Special Projects: Credit Recovery, Dual Enrollment, High School Scholarships

High School Counselor - Elizabeth Franco

Main Campus: 480-461-4156 • pmacosta@evit.com

Cosmetology, Culinary Arts, Fashion/Interior Design, Law Enforcement, Multi-Media, Radio, Video

Special Projects: Non-Traditional Students

High School Counselor - James Brady

Main Campus: 480-461-4156 • pmacosta@evit.com

Early Childhood Education, Education Professions, All Health Sciences Programs: Massage Therapy, Human Anatomy, Medical Assistant, Nursing Assistant, Pharmacy Tech, Physical Therapy, Sterile Processing, EMT, Dental

Special Projects: McKinney-Vento

High School Counselor - David Pullman

East Campus: 480-308-4607 • dpullman@evit.com

Aviation, Behavioral Health, Cosmetology, Future Engineers, Human Anatomy & Physiology, Medical Assisting, Nursing Assisting, Veterinary Assisting

Special Projects: Dual Enrollment, High School Scholarships

Special Education

Special Education Counselor & IEP/504 Coordinator - Susan Chamberlain

Main & East Campus: 480-461-4154 • schamberlain@evit.com

Special Projects: Keys to Success Foster Program, Behavioral Health, Social Services

Special Education Administrative Assistant- Susan Bangerter

Main Campus: 480-461-4155 • sbangerter@evit.com

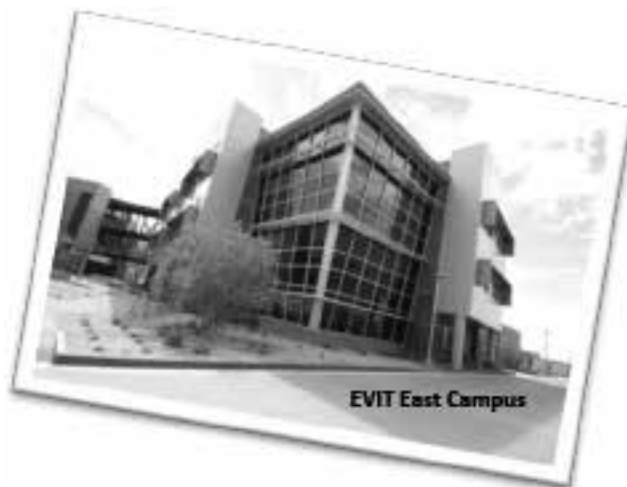
Special Projects: IEP/504 Accommodations Coordinator, Dress for Success Program & Services

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, 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)**
 - **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.

Walk-In Registration

Please advise students who wish to enroll in an EVIT program on their own to bring the items listed above to the EVIT Registrar's office at 1601 W. Main Street in Mesa. The Registrar's office is typically open from 7:30 a.m. to 4 p.m., Monday through Friday. Students or parents should call ahead (480-461-4000) if they need to meet with a counselor.

Director of Recruitment:

Terri Pearson • 480-461-4153 • tpearson@evit.com

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

COMPUTER INFORMATION SYSTEMS

IT10 Introduction to Information Technology & Engineering Careers (iTEC)

2 semesters

This program prepares students interested in pursuing careers in Engineering and/or Information Technology by introducing them to many different aspects of current technologies: Local Area Networks, Computer Information Systems, Programming and Engineering. The curriculum is designed to provide students with a foundation in the first year after which they can specialize in a chosen career pathway their second year. This is the recommended prerequisite course to the following second year programs: Robotics Engineering, Mobile App & Computer Programming, Cisco Networking Academy and Digital Device Diagnostics & Repair.

Please note: Dual enrollment for college credits is available.

Prerequisites: At least 6 high school credits, including 1 Math and 1 English credit: both 'C' or better
2.0 GPA or equivalent standardized test scores

IT20 Cisco Networking Academy

2 semesters

Students in this course will be introduced to the computer-networking field. Instructors cover network terminology and protocols, communication fundamentals in data networks and the Internet. Students study the Open Systems Interconnection (OSI) model, using a top-down approach, cabling and cabling tools, basic Cisco router, configuration, Ethernet technologies, Internet Protocol (IP) addressing and an overview of Internet Protocol version 6 (IPv6), basic configuring and testing of the network and network standards. The course prepares students for the Cisco Certified Entry Level (CCENT) examination. Students also learn the skills needed to pass the CompTIA Security+ Exams, which ensures that candidates will apply knowledge of security concepts, tools and procedures to react to security incidents; it ensures that security personnel are anticipating security risks and guarding against them.

Please note: Dual enrollment for college credits is available.

Prerequisites: EVIT's Intro. to Information Technology and Engineering Careers (iTEC) course or equivalent education/experience
At least 6 high school credits, including at least 1 Math and 1 English credit: both 'C' or better
2.0 GPA or equivalent standardized test scores

IT40 Computer Programming and Mobile App Design

2 semesters

This program will prepare students interested in pursuing a career in computer programming or mobile application design. Students are challenged to develop computer programs in multiple formats for use in the robotics industry, computer information systems and mobile application design. They will also learn the skills necessary to communicate clearly, cooperate within teams, solve logistical problems and present findings. This program will introduce students to embedded technology concepts through a combination of classroom lecture and project-based learning. Students will also learn to design computer and mobile application programs using multiple platforms of the C++ language, including, EasyC, RobotC, ObjectiveC, X-Code, Swift and Java Script.

Please note: Dual enrollment for college credits is available.

Prerequisites: EVIT's Intro. to Information Technology and Engineering Careers (iTEC) course or equivalent education/experience
At least 6 high school credits, including 1 Science credit: 'B' 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

IT30 Digital Device Diagnostic and Repair

2 semesters

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. Students learn to maintain motherboards, processors and memory. They develop troubleshooting and basic networking skills. Students also learn how to repair devices such as iPads, 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.

Prerequisites: EVIT's Intro. to Information Technology and Engineering Careers (iTEC) course or equivalent education/experience
At least 6 high school credits, including 1 Math and 1 English credit: both 'C' or better
2.0 GPA or equivalent standardized test scores

IT60 Future Engineers

2 semesters

This program will prepare students interested in pursuing an engineering related field. Students will be challenged to develop solutions to current engineering problems in environment and biomedical fields, develop skills in mechanical and electrical engineering and robotics technology. They will also learn the skills necessary to communicate clearly, cooperate within teams, solve mathematical, scientific and logistical problems and present findings. This program will introduce students to environmental challenges, biomedical uses of engineering, the use of mechanical and electrical engineering and how robotics will change the world in the future. This program will introduce students to embedded technology concepts through a combination of classroom lecture and project-based learning.

Prerequisites: At least 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
2.5 GPA or equivalent standardized test scores
Recommended: EVIT's Introduction to Information Technology and Engineering Careers (iTEC) course or equivalent education/experience

MT40 Robotics Engineering

2 semesters

This program prepares students interested in pursuing careers in robotics or engineering by providing the pre-engineering and robotics skills necessary for entry into postsecondary education programs. Students will be challenged to think critically, solve problems and apply technology-based tools effectively and safely. They will also learn the skills necessary to communicate clearly, cooperate within teams, solve mathematical, scientific and logistical problems and present findings. This program will introduce students to embedded technology concepts through a combination of classroom lecture and project-based learning. Students will also learn to design, build, communicate and operate robotic automation equipment after learning basics of machining technologies.

Please note: Dual enrollment for college credits are available.

Prerequisites: At least 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
2.0 GPA or equivalent standardized test scores

HEALTH SERVICES

MC10 Human 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.

Prerequisites: 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 Careers**2 semesters**

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 may be randomly drug tested.

Prerequisites: Seniors 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
No criminal record
2.0 GPA or equivalent standardized test scores

MC55 Emergency Medical Technician**2 semesters**

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. 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 may be randomly drug tested.

Prerequisites: Seniors only who have taken EVIT's MC10 or taken at least 1 credit of Biology or Anatomy & Physiology: 'C' or better
1 Algebra credit and 1 English credit: 'C' or better
No criminal record; 2.5 GPA or equivalent standardized test scores

MA05 Massage Therapy**2 or 4 semesters**

Study Western and Eastern massage modalities, including Swedish, Sports, Chair, Hot Stone and Reflexology. Coursework also includes anatomy and physiology, pathology, hygiene, ethics and business practices. Students prepare for their state certification by completing 700 hours of hands-on training in the public clinic on campus and at community events. 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. Please state which option the student is choosing on the application.

Please note: Students may be randomly drug tested. Dual enrollment for college credit is available.

Prerequisites: 2 English credits and Biology or MC10: 'C' or better
No criminal record
2.0 GPA or equivalent standardized test scores

MC20 Medical Assistant**2 semesters**

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 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. Please state which option the student is choosing on the application.

Please note: Students may be randomly drug tested.

Prerequisites: 2 Math credits and 2 English credits: all 'C' or better
No criminal record
Biology (may be taken concurrently)
2.0 GPA or equivalent standardized test scores

MC30 Nursing Assistant**2 semesters**

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. 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.

Please note: Students may be randomly drug tested.

Prerequisites: Seniors 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
No criminal record; 2.5 GPA or equivalent standardized test scores

HEALTH SERVICES

MC43 Pharmacy Technician

2 semesters

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 may be randomly drug tested.

Prerequisites: Seniors 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

MC45 Physical Therapy Technician

2 semesters

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 may be randomly drug tested.

Prerequisites: Seniors only who have taken EVIT's MC10 or taken at least 1 credit of Anatomy & Physiology: 'C' or better
1 Math and 1 English credit: both 'C' or better
2.5 GPA or equivalent standardized test scores

MC44 Veterinary Assistant

2 semesters

Prepare for a career in the veterinary field while learning the skills that will allow you to work with all creatures, large and small. Integrate your love for animals with medical knowledge such as taking radiographs, venipuncture, administering medications and vaccines, animal restraint, surgical preparation and surgical assisting, animal dentistry, laboratory procedures and general exams. During the first semester, students concentrate on classroom learning, hands-on skills and job shadowing. Second semester, students improve upon their skills through job shadowing and/or internships at local shelters, small and large animal practices and wildlife facilities. Students will be exposed to a variety of well and sick animals. Student must provide own transportation to job shadowing and/or internship sites. Flexible hours may be required depending upon clinical availability.

Please note: This class is only offered at the EVIT East Campus. Students may be randomly drug tested.

Prerequisites: Seniors only who have taken EVIT's MC10: 'C' or better
Students who have taken Biology with a 'C' or better,
1 Math and 1 English: both 'C' or better
2.0 GPA or equivalent standardized test scores

MC65 Behavior, Mental & Social Health Services

2 semesters

Prepare for a career in behavioral and/or social health as a behavioral or mental health technician. The certification can lead to job opportunities as a case manager, parent aide, family advocate, respite worker or paraprofessional counselor. Certified mental health technicians may work as part of a team to care for emotionally disturbed or mentally ill patients. There are job opportunities in public and private hospitals, nursing homes and residential mental health facilities. Duties may include coordinating mental health services, patient interviews, treatment documentation as well as helping patients with their personal needs. This two-semester program will provide foundations in care delivery systems, legal/safety requirements, introduction to basic mental and social illnesses, disorders and conditions as well as strategies and information about resources used to improve mental and social health.

Prerequisites: At least 6 high school credits, including 1 Math and 1 English credit
2.0 GPA or equivalent standardized test scores

HUMAN SERVICES

CS14 Aesthetics

2 semesters (600 clock hours)

Specialize in the science of skin care and makeup application. Learn techniques for exfoliation, skin analysis, deep pore cleansing, specialized treatments, facials and waxing. Prepare to take the Arizona State Board of Cosmetology exam for Aestheticians after completing this 600 hour program.

Please note: Students attend class four hours each day and may be required to provide their own transportation.

Prerequisites: At least 10 high school credits, including 2 English credits
2.0 GPA or equivalent standardized test scores

CU20 Commercial Baking and Pastry Arts

2-4 Semesters

Learn the tools-of-the-trade and professionalism necessary to gain employment as a baker, pastry chef or business owner. Baking instruction focuses on making cookies, cakes, chocolate confections, tarts, breads and plated desserts. The class also advances to cake decorating, pastries, plate painting, individual desserts and wedding cakes. Students manage an on-site retail bakery and pastry shop to learn what it's like working in the industry and with the public. EVIT's Commercial Baking and Pastry Arts program is accredited by the Accrediting Commission of the American Culinary Federation Education Foundation.

Please note: Dual enrollment for college credits is available.

Prerequisites: At least 6 high school credits, including 1 Math credit
2.0 GPA or equivalent standardized test scores
Recommended: Foods I and/or Foods II or work experience in the field

CS10 Cosmetology

4 semesters (1,600 clock hours)

Imagine having a fun, high-paying job that lets you use your creativity to make people look good! Skills learned in cosmetology focus on the care of hair, skin and nails. Technical training includes the theory of chemicals and hair coloring, cutting, client safety, hygiene and customer relations. Second-year students provide services to the public in a working salon on the EVIT campus. After completing the 1,600-hour course, students are prepared to take the Arizona State Board of Cosmetology licensing exam.

Please note: Students attend class four hours each day and may be required to provide their own transportation.

Prerequisites: At least 10 high school credits, including 2 English credits
2.0 GPA or equivalent standardized test scores

HUMAN SERVICES

CU10 Culinary Arts

2-4 semesters

Explore your passion for cooking while developing skills in all facets of the food service and hospitality industries. Training is provided in culinary arts (a la carte & quantity cooking), commercial baking and dining room operations. Students gain hands-on experience working special functions, breakfasts, luncheons and dinners in the culinary banquet hall. Students also have the opportunity to participate in culinary competitions and work with many of the top chefs and restaurants in the valley. EVIT's Culinary Arts program is accredited by the Accrediting Commission of the American Culinary Federation Education Foundation.

Please note: Dual enrollment for college credits is available.

Prerequisites: At least 6 high school credits, including 1 Math credit
2.0 GPA or equivalent standardized test scores
Recommended: Foods I and/or Foods II or work experience in the field

BK10 Banking and Financial Services

2-4 semesters

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.

Prerequisites: At least 6 high school credits, including 2 Math and 1 English credit
2.0 GPA or equivalent standardized test scores

CC10 Early Childhood Education

2-4 semesters

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. First-year students focus on early childhood philosophy, childhood development, career opportunities and current issues in safety, health, nutrition and curriculum development. They also gain experience with classroom management and discipline techniques. During the second year, students select an internship program and research professional opportunities. This self-paced, performance-based program allows for advancement that meets individual academic needs. Qualified students have the opportunity to earn their Child Development Associate national certification upon completion of this program and the necessary requirements.

Please note: Dual enrollment for college credits is available.

Prerequisites: 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 August)
No criminal record (Arizona State Law requires students to sign a criminal history verification form)

ED10 Education Professions

2 semesters

Identify philosophies and develop a leadership and teaching style. The curriculum includes a survey study of the teaching profession and educational theories of learning. Conduct research, create lessons and present concepts. Participate in various job shadowing experiences.

Prerequisites: Seniors only
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 August)
No criminal record (Arizona State Law requires students to sign a criminal history verification form)

FIT10 Fashion, Interiors and Textiles

2-4 semesters

This dynamic program introduces students to the technical knowledge and skills needed to design, produce, purchase, promote and sell merchandise and accessories. Learn about the elements and principles of design, fabrics and textiles, the use of color and texture, retail theory, visual merchandising, sewing and pattern making. Transform these skills into wearable garments, elaborate sets and window displays and participate in various EVIT events such as the annual Spring Fashion Show, Cosmetology Masquerade and Block of Dreams. Qualified students also have the opportunity to participate in job shadowing or internships during their second year of the program.

Please note: Dual enrollment for college credits is available.

Prerequisites: At least 6 high school credits, including 1 Math credit and 1 English credit
2.0 GPA or equivalent standardized test scores

INDUSTRIAL & COMMERCIAL TECHNOLOGIES

CT10 Construction

2-4 Semesters

Learn to build a structure from the ground up! Develop hands-on skills in various disciplines of commercial and residential construction including electrical wiring, plumbing, masonry, framing, roofing, drywall and finish work. Students also gain an understanding of safety, the use of hand and power tools, blueprint reading, and estimating and construction operations. Industry-driven curriculum and internships prepare students for employment, apprenticeship programs, community college or a four-year post-secondary institution.

Prerequisites: At least 6 high school credits, including 1 Math credit
2.0 GPA or equivalent standardized test scores

AC10 Heating, Ventilation and Air Conditioning (HVAC)

2-4 Semesters

The U.S. Bureau of Labor expects the nationwide demand for trained HVAC specialists to continue to grow due to advances in technology and an aging workforce. Learn the skills required to install, service and repair air conditioning, refrigeration and heating equipment in commercial and residential settings. Students in this program gain knowledge in electrical maintenance, wiring, appliance repair, installation of light and power equipment and repair of electronic controls and circuits. Internship and job shadowing opportunities are available.

Prerequisites: 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

MT10 Machining Technology

2-4 semesters

The tooling and machining industry is the basis for all manufacturing and well-suited for people who like to work with their heads as well as their hands. Learn the set-up and operation of modern, manual and computerized tools used by machinists, die and mold makers and skilled professionals in the manufacturing industry. Develop leadership, management, quality control, business and customer relations skills while working towards national certifications. Students may have the opportunity to cross-train with other EVIT programs and participate in internships.

Prerequisites: At least 6 high school credits, including 1 Math credit
2.0 GPA or equivalent standardized test scores

INDUSTRIAL & COMMERCIAL TECHNOLOGIES**PLM10 Plumbing****2-4 semesters**

The U.S. Bureau of Labor expects the nationwide demand for trained plumbing specialists to continue to grow due to an aging workforce and advances in technology. Plumbers protect the health of nations. The expert training you will receive will prepare you for a new career as a highly paid skilled technician. Students will study customer communication skills, water distribution systems, drainage waste and vent systems, plumbing fixtures, potable water quality, water heating concepts and plumbing fixture installation.

Prerequisites: 1 Math and 1 English credit: both 'C' or better
2.0 GPA or equivalent standardized test scores

MT40 Robotics Engineering**2 semesters**

This program prepares students interested in pursuing careers in robotics or engineering by providing the pre-engineering and robotics skills necessary for entry into postsecondary education programs. Students will be challenged to think critically, solve problems and apply technology-based tools effectively and safely. They will also learn the skills necessary to communicate clearly, cooperate within teams, solve mathematical, scientific and logistical problems and present findings. This program will introduce students to embedded technology concepts through a combination of classroom lecture and project-based learning. Students will also learn to design, build, communicate and operate robotic automation equipment after learning basics of machining technologies.

Please note: Dual enrollment for college credits are available.

Prerequisites: At least 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
2.0 GPA or equivalent standardized test scores

WD10 Welding**2-4 semesters**

Get fired up about a career in welding while working with a variety of materials such as mild steel, aluminum and stainless steel. Learn metal fabrication and entry level welding techniques to build or repair structures or products. Work on school and customer-related projects using OXY/FUEL cutting, PLASMA cutting, SMAW, GMAW and GTAW welding. This program has an outstanding job placement rate and offers paid internships for qualified students. Students have the opportunity to become members of the American Welding Society and test for industry certification.

Prerequisites: At least 6 high school credits, including 1 Math credit: 'C' or better
2.0 GPA or equivalent standardized test scores

MULTIMEDIA**DA10 3D Animation****2-4 semesters**

Bring creative ideas to life by combining artistic skills and design techniques to develop 3D animation, modeling and gaming projects. Develop skills in storyboarding, character development, modeling, lighting and drawing using industry-specific software such as 3ds, Max, Maya and game engine. Second-year students specialize in video game design or animation, work with outside clients and participate in internships or externships to build strong industry resumes and credentials.

Please note: Dual enrollment for college credits is available.

Prerequisites: At least 6 high school credits, including 1 Math and 1 English credit
2.0 GPA or equivalent standardized test scores

MM30 Graphic/Web Design**2 semesters**

This program will prepare students interested in pursuing a career in graphic and/or web design through multimedia related fields. Students will be challenged to learn the principles of graphic design, line, shape, pattern, form and color theory. Typography along with digital Pre-Press and Copyright laws will be taught to ensure student success. Students will use Adobe Illustrator, Photoshop and InDesign to manipulate images in unique and creative formats to develop commercial art-related specification sheets (or specs.) for assignments, social media applications and client-based projects. Students work individually and in teams to create real-world projects, build digital portfolios and create portfolios and resumes.

Prerequisites: EVIT's Introduction to Multimedia course or equivalent course or experience
At least 6 high school credits, including 1 Science, 1 Algebra and 1 English credit: all 'C' or better
2.0 GPA or equivalent standardized test scores

MM10 Introduction to Multimedia Technologies**2 semesters**

This program will prepare students interested in pursuing a career in digital photography and/or design-related field. Students will be challenged to utilize the latest digital photographic cameras, manipulate light, shadow and surrounding objects to capture images. Students will use Adobe Photoshop and Illustrator to manipulate the images in unique and creative formats. Students will work individually and in teams to create layouts, portfolios, social media applications, etc. This course is the recommended prerequisite course to be taken prior to Graphic Design, Web Design or Photography.

Prerequisites: At least 6 high school credits, including 1 Science, 1 Algebra and 1 English credit: all 'C' or better
2.0 GPA or equivalent standardized test scores

MM20 Photography**2 semesters**

This program prepares students interested in 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 Photoshop and Illustrator to manipulate the images in unique and creative formats. Students work both individually and in teams to create layouts, portfolios, etc.

Please note: Dual enrollment for college credits are available.

Prerequisites: EVIT's Introduction to Multimedia course or equivalent course or experience
At least 6 high school credits, including 1 Science, 1 Algebra and 1 English credit: all 'C' or better
2.0 GPA or equivalent standardized test scores

RB10 Radio/Audio Production**2-4 semesters**

EVIT's Radio/Audio Production program is home to KKIT, a fully functioning non-commercial radio station, run by students. KKIT features long and short form student-produced programming and commercial-free music. The students also work on the station website, develop apps, apply social media and assist with market research. The radio station is the center of the Radio/Audio Production program. Depending on their interest, students learn audio production, on-air performance, programming, copy writing, promotions and marketing, broadcast engineering, interview techniques and much more as they run KKIT. Students now have the option to focus on sports broadcasting. EVIT's 88.7FM, The Pulse, is an official radio station broadcaster of AIA high school sports.

Prerequisites: At least 6 high school credits, including 1 English credit: 'C' or better
2.0 GPA or equivalent standardized test scores

MULTIMEDIA

TV10 Video Production

2-4 semesters

Show off your creativity and explore the exciting process of video production in one of the largest green screen and production studios in Arizona. Learn all aspects of visual media productions, including film-making, event production, news, corporate event production, commercials, public service announcements (PSAs) and documentaries while using high-definition cameras. Students are also trained in animation, interactive video and web video production. Work with clients to produce various projects in a fully-equipped studio and audio bay while developing skills in editing, lighting, audio production and music creation.

Please note: *Dual enrollment for college credits is available.*

Prerequisites: At least 6 high school credits, including 1 English credit: 'C' or better and 1 Math credit: 'C' or better
2.0 GPA or equivalent standardized test scores

PUBLIC SAFETY & SECURITY

FF10 Fire Science

2-4 Semesters

Prepare for employment in the fire service and learn how to protect, educate and serve the public. Gain experience through various hands-on training skills, including live fire training, search and rescue, high rise tower drills and operation of fire apparatus and equipment. The first year provides an overview of basic fire science fundamentals and the EMT program. Second-year students gain experience through physical training, team activities and demonstrations by local, state and federal agencies. Students who complete the program have the opportunity to earn a Wildland Fire Fighter Certification.

Please note: *Dual enrollment for college credits is available.*

Prerequisites: At least 6 high school credits, including 1 Algebra credit and 1 English credit: both 'C' or better
No criminal record
Biology and/or Chemistry (may be taken concurrently)
2.5 GPA or equivalent standardized test scores

LE10 Law Enforcement

2-4 Semesters

Prepare for a career in criminal justice or a law enforcement-related field. Training includes crime scene investigations, forensics, physical fitness, report writing, patrol procedures, tactical operations and interview skills. Gain a strong foundation for organization and operation of the criminal justice system, including police, courts, jails, prisons, probation and parole and community corrections agencies. This program operates like a police academy, including rigorous physical training to prepare students for employment, an advanced degree or the military. Students who reach the 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 credits is available.*

Prerequisites: 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

TRANSPORTATION TECHNOLOGIES

AM10 Automotive Technologies

2-4 semesters

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 auto repair and maintenance including engine performance, engine repair, electrical systems, brakes, steering, suspension and alignment. Practice and master hands-on skills on late-model automobiles and participate in work-based internship and job shadowing.

Please note: *Dual enrollment for college credits is available.*

Prerequisites: At least 6 high school credits, including 1 English credit and Pre-Algebra: 'C' or better
2.0 GPA or equivalent standardized test scores

AV05 Aviation

2-4 semesters

Explore the exciting world of aviation through classroom experiences and hands-on lab work. Learn about the history of aviation, job opportunities and "hands-on" skill sets require for careers in areas such as air transportation operations, air traffic control, airframe and power-plant maintenance, professional pilot, airport management and unmanned aircraft systems (UAS) operations.

Please note: *This class is only offered at the EVIT East Campus. Dual enrollment for college credits is available.*

Prerequisites: At least 6 high school credits, including Pre-Algebra
2.5 GPA or equivalent standardized test scores

AB10 Collision Repair

2-4 semesters

Learn the collision repair business from A-Z, including damage diagnosis (estimating), non-structural metal repair, structural repair, including set-up and measuring on frame equipment, paint preparation and refinish techniques with paint mixing, paint matching and blending procedures. Finish procedures will familiarize you with color sanding and buffing as well as detailing. This is Arizona's first National Automotive Technicians Education Foundation (NATEF) certified collision program. Students earn I-CAR credit hours as well as the opportunity to secure ASE (Automotive Service Excellence) certifications. Prepare for entry level jobs ranging from body or paint technician, parts procurement, production manager, insurance estimator or adjuster, paint or tool rep or salesperson and many more.

Prerequisites: At least 6 high school credits, including Pre-Algebra: 'C' or better
2.0 GPA or equivalent standardized test scores

AM63 Diesel Technologies

2-4 semesters

The diesel and heavy equipment industry is one of the fastest growing fields in the transportation business today. Diesel mechanics work on a wide variety of diesel engines including those found in buses, trucks, RVs, bulldozers, cranes, farm tractors and trains. Students develop the skills needed for various positions in the industry through classroom and hands-on learning. Instruction is provided on cooling systems, starting and charging systems, engine lubrication, maintenance and repair and basic mechanical performance.

Prerequisites: 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

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.

