



APPLIED TECHNOLOGIES

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INNOVATIVE CAREER AND ACADEMIC HIGH SCHOOL
WITH A QUALITY PRE-K PROGRAM



9-12 HIGH SCHOOL |
2024-25 COURSE CATALOG

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Introduction

This catalog lists the high school courses offered at American Leadership Academy. Students should carefully consider the information in this catalog, so they can make informed decisions about their course of study while attending ALA. A student services Student Services Advisor is available to assist students with course selections and to answer questions about their schedules at each campus. Please be sure to review [graduation requirements](#) before making course decisions.

Definitions

- **Honors, AP, and Dual Enrollment** courses are designed to provide acceleration and enrichment. The pace is designed to challenge students and provide exploration and discovery at greater depth. Consider student capacity and desire when making course selections.
- **Honors Courses:** All students are eligible to enroll in honors courses. Honors course work at an advanced and accelerated pace, while incorporating deeper, more critical thinking, reading, writing, and problem solving skills. All honors placement is subject to administrative approval. Honors courses receive a weighted grade based on a 5.0 scale.
- **AP Courses:** AP courses are designed to prepare students for the AP test. A score of 3 or better on the exam might ensure credit at the post-secondary school of choice; however, students are responsible for researching the accepted credits based on the college institution for which they are applying. All students registered in an AP course are encouraged to purchase an AP test prep book for independent study. Students who receive a D or F in Honors or AP courses may be removed from those courses at the semester upon administrative approval. AP Courses receive a weighted grade based on a 5.0 scale.
- **Dual Enrollment Courses:** Dual Enrollment courses are courses taught by ALA teachers in accordance with the local post-secondary institution such as a community college or four year university. Students will register as a college student and, upon receiving a grade of C or higher, will receive college credit(s) while simultaneously receiving high school credit. These credits may also count toward the student's college-level diploma. Dual Enrollment courses are labeled with DE in the course title. Please talk with your Student Services Advisor for more information. Dual Enrollment courses receive a weighted grade based on a 5.0 scale.
- **Continuous Improvement:** The purpose of continuous improvement is to reduce the need for credit retrieval, to mitigate failure, and increase mastery. Students will be given multiple opportunities to demonstrate mastery with all state standards for each class, recognizing that students learn at different rates and times.
- **Gifted Testing:** A student may be referred to the gifted program by parents, teachers, or Administration. Students who score in the 97th percentile on the COGAT test will be eligible for gifted curriculum which may include Honors and/or AP courses. The COGAT test is given once yearly. State testing, psychoeducational evaluations, and other assessments may also be used in consideration for gifted placement.
- **Other Graduation Requirements:** While we list American Leadership Academy's [graduation requirements here](#), vocational schools, colleges, and universities have entrance requirements that may exceed high school graduation requirements.
- **Prerequisites or Requirements or Requirements:** Some courses have prerequisite requirements. Students must complete the prerequisites or requirements before enrolling in these classes.
- **Catalog listings:** ***Although a course is listed, it will not be offered unless a sufficient number of students register for the class. ALA reserves the right to add or remove classes at its discretion.*** It is important that students make thoughtful course selections in the spring pre-registration period because course offerings and teacher assignments are based on spring registration numbers.
- **Transfer Courses:** Acceptance of transfer courses from schools outside ALA is not automatic. Please meet with a Student Services Advisor to determine whether credits will be transferred *before enrolling*.
- **Course Fees:** Course fees are due prior to the first day of class and can be paid in your Infinite Campus account or in person at the front office of your campus. ***Course fees are assessed PER SEMESTER.***
- **Minimum Course Load:** Freshmen, Sophomores, and Juniors are required to enroll in six (6) credit-bearing courses on campus. Seniors are required to enroll in a minimum of four (4) credit-bearing courses on campus. Seniors need to review credits with a counselor to ensure all graduation requirements are being met.

Course Grading

All courses taught for credit receive a letter grade or a pass/fail option. All other course grades are based on the following grading allocations:

Classwork	20%
Homework	10%
Assessment	50%
Final Assessment	20%

Percentage Letter Grade point value is listed below. Honors and AP courses are weighted based on the Honors category.

Percentage	Grade	GPA	GPA Honors
93%-100%	A	4.0	5.0
89.5%-92.9%	A-	3.7	4.7
87%-89.4%	B+	3.3	4.3
83%-86.9%	B	3.0	4.0
79.5%-82.9%	B-	2.7	3.7
77%-79.4%	C+	2.3	3.3
73%-76.9%	C	2.0	3.0
69.5%-72.9%	C-	1.7	2.7
67%-69.4%	D+	1.3	2.3
63%-66.9%	D	1.0	2.0
59.5%-62.9%	D-	0.7	1.7
Below 59.5%	F	0.0	0.0
Withdrawal	W or W/D	0.0	0.0
Pass / Fail	P/F	NA	NA

Course Credits

One unit of credit is granted to students who receive a passing grade in a course that meets for one period during the entire academic year. One-half unit of credit is granted to students who receive a passing grade in a one-semester course.

Continuous Improvement and Assessment Retakes

- All students are provided multiple opportunities to demonstrate proficiency in each course, recognizing that students learn at different rates and times. Assessment retakes are required for any item in the 50% Assessment Category (unit exams, chapter tests, timed writes, essential tasks, quizzes) for students who score below a 70%. Students who score above 70% on assessments may retake all or

portions of that exam as determined by the teacher to demonstrate proficiency.. Assessment grades will be based on the highest assessment score achieved by the student.

- For a student to retake a specific assessment, either in whole or in part, the student needs to demonstrate readiness through additional practice as determined by the teacher. Students will work with the teacher to schedule a time to retake the assessment at a time that will best meet the needs of both the teacher and student such as during class, before or after school, or during lunch.
- Retakes must be completed before the end of the current quarter unless approved by the teacher. Retakes are only authorized for formal assessments (unit exams, chapter tests, essential tasks). Retakes are not eligible for State Assessments.

Program Planning

All students, in consultation with their families, need to develop a four-year high school plan of studies to prepare for college, vocational or technical studies, and/or the job market. To assist with this planning, review the requirements chart provided in this catalog that lists the course requirements for high school graduation. Students with an IEP are required to complete the course of study as prescribed in their Individual Education Plan (IEP).

Schedule Changes

Please make your pre-registration choices well. If you do not choose your electives, they will be chosen for you. Elective choices are not guaranteed. Any schedule changes should be completed prior to the first day of the semester. Class changes may only be considered by filling out a Class Request Change Form obtained from the school counselor, may be signed by parent/guardian, and change must take place within the first 10 days of the semester. After this time, administrative approval will be required. ***Not all schedule changes can be honored due to scheduling conflicts.***

Schedules will only be changed for the following reasons:

- Missing courses required for graduation
- Open period in schedule
- Duplication of a class
- Lacking prerequisite
- Unsuccessful completion of an accredited course
- Successful completion of accredited course prior to the beginning of the current semester (i.e. summer school)
- Documented health reasons

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

- Schedule changes made within the first ten (10) days of the semester will not be reflected on the transcript.
- Withdrawals made on the eleventh (11th) day through the end of the quarter of each semester will be posted with a "W/F". *Receiving a "W/F" will result in a "0" being factored into a student's GPA.*
- *A "W/F" will make the student ineligible to participate in AIA sponsored activities for the remainder of the semester.*
- No withdrawals are permitted within the second quarter of the semester.
- Modifications to this process may be reviewed on an individual basis with the student, parent, counselor, and administrator.

Education and Career Action Plan

On February 25, 2008 the Arizona State Board of Education Approved Education and Career Action Plans (ECAP) for all Arizona students grades 9-12 (R7-2-302.05). Effective for the graduating class of 2013 and beyond, schools must complete an Arizona Education and Career Action Plan for every student in grades 9-12. An ECAP reflects a student's current plan of coursework, career aspirations, and extended learning opportunities in order to develop the student's individual academic and career goals. [ECAP forms can be found in Infinite Campus](#). Please talk with your Student Services Advisor for more information.

Admission to Colleges and Universities

Admission requirements to colleges and universities vary greatly. Students should review the catalog of the college or university they are interested in attending to become familiar with entrance requirements.

Applicants to Arizona universities must meet the following general requirements: For unconditional admission, students must rank in the upper 25 percent in the competency courses of their high school graduating class; have an overall minimum grade point average of 3.0 on a 4.0 scale; or have a minimum score of 22 on the ACT or a minimum score of 1040 on the critical reading and math portions of the SAT; and complete the course requirements.

For conditional admission, a student must rank in the upper 50 percent of their high school graduating class or have an overall minimum grade point average of 2.5 on a 4.0 scale. A student may have a deficiency in any two subjects under course work requirements, but the deficiency cannot be in math and science or in the same subject.

Junior High School Transfer Credit

High school course credit will be given to junior high school students that have previously taken and passed Algebra 1, and/or Geometry. Students who complete High School level foreign language in Junior High may qualify for High School foreign language credit by completing the course with a passing grade of C or above and passing the final exam with at least 80%. High school transcripts will reflect the credit and the grade earned by the student. The grade earned by junior high students will be calculated in the student's high school GPA. All other coursework taken at the Jr. High cannot be used for high school credit.

Assessments

State Assessments

Students enrolled in public education in Arizona are required by state law to participate in state assessments. Students in grade 10 will participate in AzM2 reading, writing, and math, as identified by the state of Arizona. Students identified as Cohort 2022 (typically Grade 11) will participate in AzSci for the state science assessment, as identified by the state of Arizona. Students in Grade 11 will also take the ACT assessment. Alternate assessments may be given based on a student's eligibility. The American Civics Act requires high school students to correctly answer at least 60 out of 100 questions on the state-mandated civics exam to receive a high school diploma. Students will be tested during their **8th grade year**. Any student who does not pass the assessment in the eighth grade will be given opportunities to re-test in high school. Students will be afforded as many opportunities as necessary to take the exam to receive a passing score.

Program Offerings

CTE (Career and Technical Education) Classes

Applied Technologies offers students the opportunity to study in one of ten industry academies that are recognized by Arizona State of Education. Each Academy offers two distinct programs related to that

specific industry. Each program leads to industry recognized certifications. Students study their Career and Technical Education (CTE) courses and their core academic program on-site. Please view the course catalog to review our Academy offerings.

Release for Religious Instruction

Federal and State law allows students to be released from regular instruction to attend classes in religion presented by their local church. Students do not receive credit from the high school for religious instruction. Parental approval is required.

Attendance Requirements

Since regular attendance is crucial for academic success, students must be in attendance daily. School attendance is the responsibility of the student and their family. Please review the attendance/tardiness policy listed in the [ALA Parent Student Handbook](#) for additional information.

- Failure to meet the attendance policy standards may lead to withholding of credit for that class. Cases involving prolonged illness or unusual circumstances will be reviewed by the school administration. Additional documentation may be requested.
- Teachers are responsible for recording daily attendance and tardiness.
- Students are responsible for making up missed work.

Student Fees

Fees for transportation, extra-curricular activities, courses, and athletics will be collected prior to participation in the course, event, or activity. Please check the fee schedule or current course catalog for more information on fees. Fees may be paid by cash, check, or online through the [Infinite Campus Parent Portal](#). Failure to pay may result in removal from the program, course, or activity.

Teacher Qualifications

Teacher résumés for all instructional staff may be viewed upon request at the school front office.

Accreditation

American Leadership Academy campuses are accredited institutions based upon the standards and assurances of the Cognia (previously AdvancEd) accreditation commission. This accreditation is recognized by all post-secondary institutions.

Graduation Recognitions and Awards

Recognitions

Valedictorian

Definition: The member of the graduating class who has the highest weighted GPA

Eligibility Criteria:

- Attendance at the campus from which he/she will graduate for a minimum of 3 full semesters
- Is a student in good standing at the time of selection and at the time of graduation

Selection Criteria and timeline:

- The valedictorian will be selected based on a weighted GPA as calculated in Infinite Campus at time of the closing of the last grading period before graduation (in a semester-based system, this would be the end of the fall semester of the senior year; in a quarter-based system, this would be the end of the third quarter of the senior year.)
- In the event multiple students have the same weighted GPA at the time of selection, the following criteria will be used to select the Valedictorian (to be considered in the order listed):
 - If any student involved is a transfer student whose transfer grades include pluses or minuses, those will be considered and GPAs adjusted accordingly.
 - The student with the highest number of AP, DE, and honors classes taken (priority ranking DE, AP, then Honors)
 - The student with the least number of yellow cards/suspensions will be compared
 - The student with the highest scores on AP tests
 - The student who has been enrolled at the graduation campus the longest
 - If still tied, the graduation will have co-valedictorians and will not have a salutatorian.

Salutatorian

Definition: The member of the graduating class who has the second highest weighted GPA

Eligibility Criteria:

- Attendance at the campus from which he/she will graduate for a minimum of 3 full semesters
- Is a student in good standing at the time of selection and at the time of graduation

Selection Criteria and timeline:

- The salutatorian will be selected based on a weighted GPA as calculated in Infinite Campus at time of the closing of the last grading period before graduation (in a semester-based system, this would be the end of the fall semester of the senior year; in a quarter-based system, this would be the end of the third quarter of the senior year.)
- In the event multiple students have the same weighted GPA at the time of selection, the following criteria will be used to select the salutatorian (to be considered in the order listed):
 - If any student involved is a transfer student whose transfer grades include pluses or minuses, those will be considered and GPAs adjusted accordingly.
 - The student with the highest number of AP, DE, and honors classes taken (priority ranking DE, AP, then Honors)
 - The student with the least number of yellow cards/suspensions will be compared
 - The student with the highest scores on AP tests
 - The student who has been enrolled at the graduation campus the longest
 - If still tied, the graduation will have co-salutatorians.

Cum Laude awards

Cum Laude

Definition: An academic award giving to graduates indicating the student has graduated “with praise” or “with honors”

Eligibility: Any student who has met graduation requirements and will be graduating with the current graduating class at an ALA school

Selection criteria and timeline:

- Cum Laude will be given to the top 25% of the graduating students in a graduating class based on their weighted GPA and whose weighted GPA is at least a 3.5
- The GPA will be calculated at time of the closing of the last grading period before graduation (in a semester-based system, this would be the end of the fall semester of the senior year; in a quarter-based system, this would be the end of the third quarter of the senior year.)

Magna Cum Laude

Definition: An academic award giving to graduates indicating the student has graduated “with great praise” or “with great honors”

Eligibility: Any student who has met graduation requirements and will be graduating with the current graduating class at an ALA school

Selection criteria and timeline:

- Magna Cum Laude will be given to the top 10% of the graduating students in a graduating class based on their weighted GPA and whose weighted GPA is at least a 3.8
- The GPA will be calculated at time of the closing of the last grading period before graduation (in a semester-based system, this would be the end of the fall semester of the senior year; in a quarter-based system, this would be the end of the third quarter of the senior year.)

Summa Cum Laude

Definition: An academic award giving to graduates indicating the student has graduated “with highest praise” or “with highest honors”

Eligibility: Any student who has met graduation requirements and will be graduating with the current graduating class at an ALA school

Selection criteria and timeline:

- Summa Cum Laude will be given to the top 5% of the graduating students in a graduating class based on their weighted GPA and whose weighted GPA is at least a 4.0
- The GPA will be calculated at time of the closing of the last grading period before graduation (in a semester-based system, this would be the end of the fall semester of the senior year).

Graduation Requirements

ALA students will meet and exceed the academic requirements to ensure they are prepared for the globally competitive workforce and post-secondary education.

American Leadership Academy students will earn four credits in English and math, three credits in social studies and science, one in health/physical education, and at least five elective credits, giving them twenty-two credits required for graduation from ALA. To meet the requirements of admission into a university in the state of Arizona, students are required to earn at least two credits in consecutive courses of a world language. Our school graduation requirements have been determined with the school's mission of creating a path to college as a guide.

American Leadership Academy offers three different diploma tracks for students to choose from. Please see the next page for the graduation requirements of each diploma track

Graduation Requirements

ALA-AT Graduation Diploma

Arizona University Entrance Diploma

ALA requires 22 credits for graduation. Minimum requirements in the content areas below are as follows:		Arizona University Graduation Requirements differ from high school graduation. Minimum requirements in the content areas below are as follows:	
English English I, English II, English III, English IV	4 credits	English	4 credits
Math Algebra 1, Geometry, Algebra 2, one additional math course	4 credits	Math Algebra 1, Geometry, Algebra 2, one additional math course	4 credits
Science Biology, Chemistry, Physics	3 credits	Science 3 Lab Sciences	3 credits
History and Social Sciences World History, American/Arizona History, Economics, Civics/Government	3 credits	History and Social Sciences US/AZ History and one other	2 credits
Fitness & Nutrition	1 credit	CTE/Fine Arts	1 credit
CTE/Fine Arts	4 credits	Foreign Language Must be the same language	2 credits
Financial Literacy/Entrepreneurship	1 credit	Minimum GPA	3.0
Electives 2.0 Foreign Language credits are required for university entrance	2 credits		
Total	22 credits		

ALA Honors Diploma

ALA STEM Diploma

Students who wish to graduate with an honors diploma must:		Students who wish to graduate with a STEM diploma must:	
<ul style="list-style-type: none"> Graduate with a 3.8 cumulative weighted GPA Complete 8 core classes at an Honors, DE, or AP level 		<ul style="list-style-type: none"> Graduate with 3.8 cumulative weighted GPA Complete 8 core classes at an Honors, DE, or AP level 	
English English I, English II, English III, English IV	4 credits	English English I, English II, English III, English IV	4 credits
Math Algebra 1, Geometry, Algebra 2, one additional math course	4 credits	Math Algebra 1, Geometry, Algebra 2, two additional* math courses (One must be from the math department and one can be from Appendix A)	5 credits
Science Biology, Chemistry, Physics, one additional science course	4 credits	Science Biology, Chemistry, Physics, two additional* science courses	5 credits
History and Social Sciences World History, American/Arizona History, Economics, Civics/Government	3 credits	History and Social Sciences World History, American/Arizona History, Economics, Civics/Government	3 credits
Fitness & Nutrition	1 credit	Fitness & Nutrition	1 credit
CTE/Fine Arts	4 credits	CTE/Fine Arts	4 credits
Financial Literacy/Entrepreneurship	1 credit	Financial Literacy/Entrepreneurship	1 credit
Foreign Language	2 credits	Foreign Language	2 credits
Electives	1 credit	Electives	0 credits
Total	24 credits	Total	25 credits

*STEM - *additional 2 science and 1 math classes may include CTE, technology, and STEM-related courses at ALA and/or EVIT. See [Appendix A](#).*

Suggested Course Progression

Suggestions below are a typical progression path for each diploma. The progressions are only suggestions and could vary depending on the academic level and credit achievement of a student. The Student Services Department is a resource in addition to the course catalog to ensure students have the correct courses and credit for graduation.

	9th Grade	10th Grade	11th Grade	12th Grade
English	English I	English II	English III	English IV
Math	Algebra 1	Geometry	Algebra 2	College Math
History/Social Studies	World History	Entrepreneurship/Financial Lit	US/Arizona History	Economics & Civics
Science	Biology	Chemistry	Physics	Upper level science course
Elective	Fitness & Nutrition	Elective	Elective	Elective
Elective	Elective	CTE	CTE	CTE
Elective	Elective	CTE	CTE	CTE

Honors Diploma - 50% of core classes must be honors, DE, or AP; it is not required that ALL be honors

	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
English	English 8 Honors	English I Honors	English II Honors	English III Honors	English IV Honors
Math	Algebra 1 Honors	Geometry Honors	Algebra 2 Honors	Pre-Calculus Honors	AP Calculus AB
History/Social Studies	History 8 Honors	World History Honors	Entrepreneurship /Financial Lit	US/Arizona History Honors	Economics & Civics Honors
Science	Science 8 Honors	Biology Honors	Chemistry Honors	Physics Honors	DE or AP Science course
Elective	World Language	World Language	Fitness & Nutrition	Elective	Elective
Elective	Elective	Elective	CTE	CTE	CTE
Elective	Elective	Elective	CTE	CTE	CTE

STEM Diploma - **English and history courses may be honors, but are not required for this diploma.*

	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
English	English 8 Honors	English I*	English II*	English III*	English IV*
Math	Algebra 1 Honors	Geometry Honors	Algebra 2 Honors	Pre-Calculus Honors	AP Calculus AB
History/Social Studies	History 8*	World History*	Entrepreneurship /Financial Lit	US/Arizona History*	Economics & Civics*
Science	Science 8 Honors	Biology Honors	Chemistry Honors	Physics Honors	Anatomy & Physiology Honors or AP science course
Elective	World Language	World Language	Fitness & Nutrition	Upper level science course	Elective
Elective	Elective	Elective	CTE	CTE	CTE
Elective	Elective	Elective	CTE	CTE	CTE

Core Academic Courses

English Department

English Courses Based on Post Secondary Plans

Post Secondary Plan	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Workforce, 2 yr College, OR Technical School	English 7	English 8	English I	English II	English III	English IV
4 Year University*	English 7 Honors	English 8 Honors	English I Honors	English II Honors	AP Language	AP Literature
Top Tier 4 Year University**	English 7 Honors	English 8 Honors	English I Honors	English II Honors	DE ENG 101/102 OR AP Language	DE ENG 110/111 OR AP Literature

*A college or university with acceptance rates of $\geq 50\%$.

**Highly competitive colleges and universities with acceptance rates of $\leq 25\%$

English Courses

Grade				Course Name	School	
9	10	11	12		AT	ALAV
X	X	X	X	English I	X	X
X	X	X	X	English I Honors	X	X
	X	X	X	English II	X	X
	X	X	X	English II Honors	X	X
		X	X	English III	X	X
			X	English IV	X	X
		X	X	AP Language and Composition	X	
			X	AP Literature and Composition	X	X
			X	DE First Year Composition	X	X
			X	DE Intro to Literature	X	X
		X	X	DE Technical & Professional Writing	X	X

English I

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 English

English I is designed to help students develop an appreciation and aptitude for the study of literature, informational text, and the writing process. Students will study selected nonfiction texts, novels, short stories, poetry, and a Shakespearean play. Vocabulary development and continued work with language arts skills are designed to improve students' reading and writing abilities. This course meets the requirements of the Arizona Language Arts Standards. Students will receive 1.0 English credit upon completion of this two-semester course (0.5 credit each semester).

English I Honors

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District & State Assessments	None	1.0 Weighted English

English I Honors is an advanced version of English I. It is designed to help students develop an advanced appreciation and aptitude for the study of literature, informational text, and the writing process. Students will study selected nonfiction texts, novels, short stories, poetry, and a Shakespearean play. Continued work with language arts skills and vocabulary development are designed to enhance students' speaking and listening, critical reading, and writing skills. This course meets the requirements of the Arizona Language Arts Standards. Students will receive 1.0 Weighted English credit upon completion of this two-semester course (0.5 credit each semester).

English II

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
English I	None	1.0 English

English II will allow students to continue their study of literature and informational text through a close analysis of nonfiction, selected novels, short stories, drama, and poetry, from a variety of global perspectives. Students will continue to practice their organizational, writing, and editing skills through the completion of research, argumentative, and informative essays. This course meets the requirements of the Arizona Language Arts

Standards. Students will receive 1.0 English credit upon completion of this two-semester course (0.5 credit each semester).

English II Honors

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District & State Assessments & English I	None	1.0 Weighted English

English II Honors is an advanced version of English II that will allow students to continue their study of literature and informational text, through an in-depth analysis focusing on the additional area of literary style. Students will read nonfiction, selected novels, short stories, poetry, and a Shakespearean play, from a variety of global perspectives. Through literature analysis, additional writing opportunities, and independent work, students will develop higher level thinking skills which they will utilize to effectively communicate both orally and in writing. This course is designed to meet the requirements of the Arizona Language Arts Standards. Students will receive 1.0 Weighted English credit upon completion of this two-semester course (0.5 credit each semester).

English III

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
English II	None	1.0 English

The objectives of the course include developing students' understanding of the history and cultural progress of the American nation through literature. Students will analyze and contextualize the evolution of literature reflective of American literary periods from the Puritan era through modern times by exploring the customs and norms of each period as revealed through unique perspectives from a variety of authors. Students will continue to build on their writing skills by understanding that form is related to function, that meaningful writing requires authors to choose the most effective voice and genre according to their purpose and audience. Students will also express maturity in their writing through a variety of sentence structures and syntactical methods as well as through vocabulary and diction. This course is designed to meet the requirements of the Arizona Language Arts Standards. Students will receive 1.0 English credit upon completion of this two-semester course (0.5 credit each semester).

English IV

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
English III	None	1.0 English

English IV will allow students to further develop their writing and analytical skills while studying British Literature with an emphasis in its Classical origins. The course emphasizes argumentative/persuasive writing, research, and speaking and listening skills. Students should expect to write college level essays, read and analyze literature and informational text that will help prepare them for college and career. This course is designed to meet the requirements of the Arizona Language Arts Standards. Students will receive 1.0 English credit upon completion of this two-semester course (0.5 credit each semester).

AP Language and Composition

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District & State Assessments & English III	AP Exam Fee	1.0 Honors English

The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays developed through a multi-stage writing process. Through the writing process, students will develop a personal style in addition to evaluating, synthesizing, and citing research to support their arguments. Students will also read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. This course is designed to meet the requirements of the College Board AP English Language and Composition Course. Students will receive 1.0 Weighted English credit upon completion of this two-semester course (0.5 credit each semester).

AP Literature and Composition

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District & State Assessments & English III	AP Exam Fee	1.0 Weighted English

The AP English Literature and Composition is an advanced course that engages students in the careful reading and critical analysis of imaginative literature. Through the close examination of selected texts, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. This course is designed to address the requirements of the College Board AP English Literature and Composition Course. Students will receive 1.0 Weighted English credit upon completion of this two-semester course (0.5 credit each semester).

DE First Year Composition

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Cumulative Unweighted GPA \geq 2.6 OR ACT (English) \geq 18 OR SAT (English) \geq 460 OR Writeplacer \geq 5 OR EdReady English \geq 80	College tuition	1.0 Weighted English

DE First Year Composition is an advanced English course taught at the college level. In this course, students will analyze specific rhetorical contexts; organize writing to support a central idea through unity, coherence, and logical development; use appropriate conventions in writing; summarize, paraphrase, and quote from sources to maintain academic integrity and to develop and support one's own ideas; use feedback obtained from peer review, instructor comments and/or other resources to revise writing; assess one's own writing strengths and identify strategies for improvement; and write a research paper. Students who wish to pursue college credit must enroll with the partner community college and pay appropriate fees. Students will receive 1.0 Weighted English credit upon completion of this year-long course. Students who complete the course while enrolled in the partner community college will receive corresponding college credit at that school. Please note, this is typically taught as two separate semester-long courses at the college level, which means that students may earn up to six (6) college credits should they choose to enroll at the corresponding community college.

DE Intro to Literature

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Cumulative Unweighted GPA \geq 2.6 OR ACT (English) \geq 18 OR SAT (English) \geq 460 OR Writeplacer \geq 5 OR EdReady English \geq 80	College tuition, if applicable	1.0 Weighted English

This is an advanced course that engages students in the careful reading and critical analysis of imaginative literature. Through the close examination of selected texts, students will deepen their understanding of the various

ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Students who complete this course while enrolled in the partner community college will receive corresponding college credit at that school. Students will receive 1.0 Weighted English credit upon completion of this two-semester course (0.5 credit each semester).

DE Technical & Professional Writing

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
C or better in ENG 101 <i>OR 4 or 5 on English AP Exam</i>	College tuition, if applicable	1.0 Weighted English

DE Technical and Professional Writing covers analyzing, planning, organizing, researching, and writing correspondence, reports, and presentations for specific work-related audiences. This course includes integrating data and graphics into work-related documents and presentations. To provide pragmatic/ real-world experience in writing opportunities. Students who complete this course while enrolled in the partner community college will receive corresponding college credit at that school. Students will receive 1.0 Weighted English credit upon completion of this two-semester course (0.5 credit each semester).

Math Department

Math Courses Based on Post Secondary Plans

Post Secondary Plan	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Workforce, 2 yr College, OR Technical School	Math 7	Pre-Algebra 8	Algebra 1	Geometry	Algebra 2	College Math
4 Year University*	Math 7 Honors	Pre-Algebra 8 Honors	Algebra 1 Honors	Geometry Honors	Algebra 2 Honors	Pre-Calculus or AP Pre-Calculus
Top Tier 4 Year University**	Pre-Algebra 7 Honors	Algebra 1 Honors	Geometry Honors	Algebra 2 Honors	Pre-Calculus or AP Pre-Calculus	AP Calculus AB or DE Option

*A college or university with acceptance rates of $\geq 50\%$.

**Highly competitive colleges and universities with acceptance rates of $\leq 25\%$

Math Courses

Grade				Course Name	School	
9	10	11	12		AT	ALAV
X	X	X	X	Algebra 1	X	X
X	X	X	X	Algebra 1 Honors	X	X
X	X	X	X	Geometry	X	X
X	X	X	X	Geometry Honors	X	X
X	X	X	X	Algebra 2 Applications	X	
X	X	X	X	Algebra 2	X	X
X	X	X	X	Algebra 2 Honors	X	X
X	X	X	X	Consumer Math	X	X
		X	X	College Math	X	X
		X	X	College Math Honors/DE	X	X
		X	X	College Algebra Honors/DE		X
		X	X	Pre-Calculus /DE	X	X
		X	X	AP Pre-Calculus	X	X
		X	X	AP Calculus AB	X	X
			X	AP Statistics	X	X
		X	X	DE Calculus	X	X
Math Electives (Eligible for elective credit, not math credit)						
X				Success Lab	X	X

Algebra 1

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Math

Algebra 1 is a first-year high school course and is an extension of the concepts taught in previous math courses. Algebra 1 topics focus on the real number system, quantities, expressions, polynomials, equations, inequalities, functions, similarity, right triangles, and probability. This course was designed to address the requirements of the Arizona Mathematics Content Standards for Algebra 1. Students will receive 1.0 Math credit upon completion of this two-semester course (0.5 credit each semester).

Algebra 1 Honors

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments	None	1.0 Weighted Math

Algebra 1 Honors includes all topics covered in Algebra 1. This Honors course will aim to advance critical thinking skills by requiring students to connect, analyze and prove mathematical concepts. This course was designed to address the requirements of the Arizona Mathematics Content Standards for Algebra 1. Students will receive 1.0 Weighted Math credit upon completion of this two-semester course (0.5 credit each semester).

Geometry

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Algebra 1	None	1.0 Math

Geometry is a second-year math course and an extension of the concepts taught in Algebra 1. Geometry topics

focus on quantities, congruence, similarities, transformations, right triangles, circles, geometric properties with equations, measurement, modeling with geometry, and probability. This course was designed to address the requirements of the Arizona Mathematics Content Standards for Geometry. Students will receive 1.0 Math credit upon completion of this two-semester course (0.5 credit each semester).

Geometry Honors

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments & Algebra 1	None	1.0 Weighted Math

Geometry Honors includes all topics covered in Geometry. Additionally, Honors students will apply trigonometry to general triangles, explain volume formulas, understand and apply theorems about circles, translate descriptions and equations for conic sections, and use Cavalieri's principle to solve volume problems. This course was designed to address the requirements of the Arizona Mathematics Content and Plus Standards for Geometry. Students will receive 1.0 Weighted Math credit upon completion of this two-semester course (0.5 credit each semester).

Algebra Applications

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Geometry	None	1.0 Math

Algebra Applications is a third-year math course for students who are not quite ready for Algebra 2. Topics in this course focus on number sense, estimation, data analysis, statistics, functions, probabilities, relationships, and discrete mathematics. This course was designed to address the requirements of the Arizona Mathematics Content Standards for Algebra 2, as well as Arizona's College and Career Ready Standards. Students will receive 1.0 Math credit upon completion of this two-semester course (0.5 credit each semester).

Algebra 2

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Geometry	None	1.0 Math

Algebra 2 is a third-year course and is an extension of the concepts taught in Algebra 1 and Geometry. Algebra 2 topics focus on the complex number system, vector quantities, matrix quantities, structure in expressions, interpreting functions, creating equations/inequalities, reasoning with equations/inequalities, polynomials, congruence, similarity, right triangles, and probability. This course was designed to address the requirements of the Arizona Mathematics Content Standards for Algebra 2. Students will receive 1.0 Math credit upon completion of this two-semester course (0.5 credit each semester).

Algebra 2 Honors

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments, Geometry	None	1.0 Weighted Math

Algebra 2 Honors includes all topics covered in Algebra 2. Additionally, Honors students will use complex numbers in polynomial identities and equations, rewrite rational expressions, extend the domain of trigonometric functions using the unit circle and prove and apply trigonometric identities. This course was designed to address the requirements of the Arizona Mathematics Content and Plus Standards for Algebra 2. Students will receive 1.0 Weighted Math credit upon completion of this two-semester course (0.5 credit each semester).

Consumer Math

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Algebra 2 or Admin approval	None	1.0 Math

This course is designed to teach students everyday math skills such as balancing a checkbook, creating a budget, buying a car or home, personal record keeping and paying taxes. Students will become better educated to make decisions on matters of personal finance. This course was designed to address the requirements of the Arizona Mathematics Content Standards for Quantitative Reasoning. Students will receive 1.0 Math credit upon completion of this two-semester course (0.5 credit each semester).

College Mathematics

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Algebra 2	None	1.0 Math

The College Mathematics course is a working knowledge of college-level mathematics and its applications to real life problems. There is an emphasis on understanding mathematical concepts and their applications. Topics include set theory, probability, statistics, finance, and geometry. This course is designed to meet the requirements of the Arizona Mathematics Standards for Quantitative Reasoning. Students will receive 1.0 Math credit upon completion of this two-semester course (0.5 credit each semester).

College Mathematics (Weighted)/DE

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments & Algebra 2	College tuition, if applicable	1.0 Weighted Math

The College Mathematics (Weighted) course is a working knowledge of college-level mathematics and its applications to real life problems. There is an emphasis on understanding mathematical concepts and their applications. Topics include set theory, probability, statistics, finance, and geometry. This course is designed to meet the requirements of the Arizona Mathematics Standards for Quantitative Reasoning and MCCC Math 141. Students will receive 1.0 Honors Math credit upon completion of this two-semester course (0.5 credit each semester). Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit.

College Algebra /DE

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments & Algebra 2	College tuition, if applicable	1.0 Weighted Math

College Algebra (Weighted) is an Algebra class that is more of an Algebra 2.5 level for students who are ahead of schedule but not quite ready to jump into Weighted Precalculus. Topics would include: analysis and interpretation of the behavior and nature of functions including polynomial, rational, exponential, logarithmic, power, absolute value, and piecewise defined functions; systems of equations, using multiple methods including matrices, modeling and solving real world problems, and defining and illustrating sequences and series. This course is designed to meet the requirements of the Arizona Mathematics Standards for Quantitative Reasoning and MCCC Math 151. Students will receive 1.0 Honors Math credit upon completion of this two-semester course (0.5 credit each semester). Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit.

Pre-Calculus /DE

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments & Algebra 2	College tuition, if applicable	1.0 Weighted Math

Pre-Calculus (weighted) is a fourth-year course in the high school math sequence that combines topics from College Algebra and Trigonometry in preparation for Analytic Geometry and Calculus. Students will master algebraic methods and properties and will analyze and interpret the behavior and nature of functions. The types of functions will include: polynomial, rational, exponential, logarithmic, absolute value, and piecewise. Other topics may include: systems of equations, matrices, combinations, permutations, sequences, series, conics, and data analysis with a focus on modeling and solving real-world problems. This course is designed to meet the requirements of the Arizona Mathematics Plus Standards for Pre-Calculus and the requirements of MCCCD MAT 187. Students will receive 1.0 weighted Math credit upon completion of this two-semester course (0.5 credit each semester). Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit.

AP Pre-Calculus

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Algebra 2 with teacher approval	AP Exam fee, if applicable	1.0 Weighted Math

This course provides students with an understanding of the concepts of college algebra, trigonometry, and additional topics that prepare students for further college level mathematics courses. This course explores a variety of function types and their applications—polynomial, rational, exponential, logarithmic, trigonometric, polar, parametric, vector-valued, implicitly defined, and linear transformation functions using matrices. Throughout the course, the mathematical practices of procedural and symbolic fluency, multiple representations, and communication and reasoning are developed. Students experience the concepts and skills related to each function type through the lenses of modeling and covariation and engage each function type through their graphical, numerical, analytical, and verbal representations. This course is designed to address the requirements of the College Board AP Pre-Calculus Course. Students will receive 1.0 Weighted Math credit upon completion of this two-semester course (0.5 credit each semester).

AP Calculus AB

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Pre-Calculus Weighted/DE or Algebra 2 Honors with teacher approval	AP Exam fee, if applicable	1.0 Weighted Math

This course provides a rigorous treatment of the concepts and methods of elementary calculus and its application to real-world problems. Topics include understanding and calculating limits, continuity, and derivatives as rates of change; differentiation rules including derivatives of polynomials, exponentials, trigonometric, and logarithmic functions; product and quotient rules, the chain rule, and implicit differentiation; related rates, curve sketching, maximum and minimum problems, mean value theorem, linear approximation, indeterminate forms, and L'Hospital's rule; and applied optimization problems, antiderivatives, introduction to integration, and approximating areas under the curve. This course is designed to address the requirements of the College Board AP Calculus AB Course. Students will receive 1.0 Weighted Math credit upon completion of this two-semester course (0.5 credit each semester).

DE Calculus

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Pre-Calculus Honors/DE	College tuition, if applicable	1.0 Weighted Math

This course includes topics from analytic geometry with special emphasis on inequalities and absolute value expressions, limits, continuity, the fundamental principles and formulae for differential and integral calculus along with their applications to geometry and mechanics, the mean value and the fundamental theorem of calculus. This course is designed to meet the requirements of CGCC Mat 220. Students will receive 1.0 Weighted Math credit upon completion of this two-semester course (0.5 credit each semester). Students who successfully complete the course while enrolled in the partner community college will receive corresponding college credit at that school.

AP Statistics

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Algebra 2	AP Exam fee, if applicable	1.0 Honors Math

This course introduces the study of basic probability, descriptive and inferential statistics, and decision-making. Emphasis is placed on measures of central tendency and dispersion, correlation, regression, discrete and continuous probability distributions, quality control, population parameter estimation, and hypothesis testing. This course is designed to address the requirements of the College Board AP Statistics Course. Students will receive 1.0 Weighted Math credit upon completion of this two-semester course (0.5 credit each semester).

Success Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Elective

The Success Lab provides students with individualized math support using research-based adaptive software. The goal of the course is to ensure mastery of foundational math skills so that students are equipped for college and career. Students enter and exit the Success Lab course based upon their data from the statewide mathematics assessment. Students will receive 1.0 Elective credit upon completion of this two-semester course (0.5 credit each semester).

Science Department

Science Courses Based on Post Secondary Plans

Post Secondary Plan	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Workforce, 2 yr College, OR Technical School	Science 7	Science 8	Earth Science or Biology	Biology or Chemistry	Physics or Chemistry	Elective
4 Year University*	Science 7 Honors	Science 8 Honors	Biology or AP Biology	Chemistry, or AP Chemistry	Physics or AP Physics	DE or AP Science course
Top Tier 4 Year University**	Science 7 Honors	Science 8 Honors	AP Biology	AP Chemistry	AP Physics	AP Environmental or DE Science

*A college or university with acceptance rates of $\geq 50\%$.

**Highly competitive colleges and universities with acceptance rates of $\leq 25\%$

Science Courses

Grade				Course Name	School	
9	10	11	12		AT	ALAV
X	X	X	X	Biology w/lab	X	X
X	X	X	X	Biology Honors w/lab	X	X
X	X	X	X	Chemistry w/lab	X	X
X	X	X	X	Chemistry Honors w/lab	X	X
X	X	X	X	Physics w/lab	X	X
X	X	X	X	Physics Honors w/lab	X	X
X	X	X	X	Earth Science w/lab	X	X
X	X	X	X	Environmental Science	X	
		X	X	Anatomy and Physiology w/lab	X	X
		X	X	Anatomy and Physiology Honors w/lab	X	X
		X	X	Forensic Science		
		X	X	AP Biology	X	
		X	X	AP Physics 1	X	
		X	X	AP Chemistry	X	
		X	X	AP Environmental Science	X	
		X	X	DE Intro to Biology	X	

Biology with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Science

This is a lab-oriented course designed to study the major areas of life and living things. Emphasis will be on the major integrating themes of ecosystems, cells, genetics, and theories of evolution. This course is designed to address the requirements of the Arizona Science Content Standards for Life Sciences. Students will receive 1.0 Science credit upon completion of this two-semester course (0.5 credit each semester).

Biology Honors with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments	None	1.0 Honors Science

This is an advanced version of the Biology course. It is a lab-oriented course designed to study the major areas of life and living things. Emphasis will be on the major integrating themes of ecosystems, cells, genetics, and theories of evolution. Honors students will enhance their understanding by analyzing and reasoning science through models and math, defining problems and designing solutions within the Life Sciences. This course is designed to address the requirements of the Arizona Science Content and Plus Standards for Life Sciences. Students will receive 1.0 Honors Science credit upon completion of this two-semester course (0.5 credit each semester).

DE Intro to Biology

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
1 yr of HS Chemistry, Test into CRE 101	College tuition if applicable	1.0 Weighted Science

An introductory biology course for allied health majors with an emphasis on humans. Topics include fundamental concepts of cell biology, histology, microbiology, and genetics. This course is designed to meet the Arizona Science Standards for MCCCD BIO 156. Students who successfully complete the course while enrolled in the partner community college will receive corresponding college credit at that school. Students will receive 1.0 Weighted Science credit upon completion of this two-semester course (0.5 credit each semester).

Chemistry with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Science

This is a lab-oriented course emphasizing elements, compounds and mixtures as found in nature. Chemical reactions, basic problems in chemistry and equations are studied in depth. This course was designed to address the requirements of the Arizona Science Content and Plus Standards for Chemistry. Students will receive 1.0 Science credit upon completion of this two-semester course (0.5 credit each semester.)

Chemistry Honors with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments	None	1.0 Honors Science

This is an advanced version of the Chemistry course. It is a lab-oriented course emphasizing elements, compounds and mixtures as found in nature. Chemical reactions, basic problems in chemistry and equations are studied in depth. Honors students will deepen their understanding of topics by comparing and contrasting chemical compounds, properties and reactions. Students will also develop mathematical representations. This course is designed to address the requirements of the Arizona Science Content and Plus Standards for Chemistry. Students will receive 1.0 Honors Science credit upon completion of this two-semester course (0.5 credit each semester).

Earth Science with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Science

This course is designed to investigate earth-space concepts in order to develop students' analytical skills and problem-solving techniques. Concepts explored in the course develop foundational knowledge that ensures success in subsequent high school science classes. Emphasis is based on laboratories in which the student is an active participant in the formation of the lab. This course was designed to address the requirements of the Arizona Science Content Standards for Earth Science. Students will receive 1.0 Science credit upon completion of this two-semester course (0.5 credit each semester).

Environmental Science

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$25 per semester	1.0 Science

This course provides basic scientific knowledge and understanding of how our world works from an environmental perspective. Topics covered include: basic principles of ecosystem function; biodiversity and its conservation; human population growth; water resources and management; water, air and soil pollution; climate change; energy resources, and sustainability. Students will receive 1.0 Science credit upon completion of this two-semester course (0.5 credit each semester). (cannot be taken in place of Biology or Chemistry)

Physics with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Concurrent enrollment in Algebra 2	None	1.0 Science

Physics introduces students to the use of chemicals, characteristic properties of materials, and simple mechanics to better describe the world and non-living matter. The courses emphasize precise measurements and descriptive analysis of experimental results. Topics covered may include energy and motion, electricity, magnetism, heat, the structure of matter, and how matter reacts to materials and forces. This course focuses on mathematical representation and includes in depth calculations of forces and motion. This course is designed to address the requirements of the Arizona Science Content Standards for Physics. Students will receive 1.0 Science credit upon completion of this two-semester course (0.5 credit each semester).

Physics Honors with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments, Concurrent enrollment in Algebra 2	None	1.0 Honors Science

Physics Honors is a more rigorous version of the Physics course. Students will be introduced to and challenged to apply understanding of energy, forces, light, motion, waves, electricity, magnetism, mechanical energy, and alternative energy sources. Honors students will deepen their understanding of topics by investigating, modeling, and designing solutions to real-world physics scenarios. This course is designed to address the requirements of the Arizona Science Content and Plus Standards for Physics. Students will receive 1.0 Honors Science credit upon completion of this two-semester course (0.5 credit each semester).

Anatomy and Physiology with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Science

This course deals with the structure and function of the human body and is recommended for students interested in medicine. A thorough study of the systems of the human body is presented. Because of similarities to human systems, group dissections of various organs and/or comparable organisms may be performed. Students will receive 1.0 Science credit upon completion of this two-semester course (0.5 credit each semester).

Anatomy and Physiology Honors with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments	None	1.0 Honors Science

This is an advanced version of the Anatomy and Physiology course. It deals with the structure and function of the human body and is recommended for students interested in medicine. A thorough study of the systems of the human body is presented. Because of similarities to human systems, group dissections of various organs and/or comparable organisms may be performed. Honors students will apply knowledge to analyze diseases, synthesize information and present solutions to common ethical and social concerns in the world around them. Students will receive 1.0 Honors Science credit upon completion of this two-semester course (0.5 credit each semester).

DE Anatomy and Physiology I

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
1 yr of HS Biology, Test into CRE 101	College tuition if applicable	1.0 Weighted Science

This course provides the study of structure and function of the human body. Topics include cells, tissues, integumentary system, skeletal system, muscular system, and nervous system. This course is designed to meet the Arizona Science Standards for MCCC BIO 201. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will receive 1.0 Weighted Science credit upon completion of this two-semester course (0.5 credit each semester).

Forensic Science

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Chemistry & Physics or Anatomy	\$25/semester	1.0 Science

Forensic Science is a higher level science course covering fingerprints, footprints, blood and other aspects of crime scenes. This class will have a science, math, and social science focus, with a focus in areas such as anatomy, biology, sociology, psychology, and law enforcement. Students will receive 1.0 Science credit upon completion of this two-semester course (0.5 credit each semester).

AP Biology

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments	\$25 lab fee/semester AP Exam Fee, if applicable	1.0 Honors Science

AP Biology will cover topics typically found in a first-year college biology course and advances the student's understanding of concepts normally covered in high school biology. It provides solid preparation for the AP Biology exam. This course is designed to help students develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines and connecting concepts in and across domains. This course is designed to meet the requirements of the College Board AP Biology course. Students will receive 1.0 Honors Science credit upon completion of this two-semester course (0.5 credit each semester).

AP Physics 1

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments	\$25 lab fee/semester AP Exam Fee, if applicable	1.0 Honors Science

AP Physics introduces students to the use of chemicals, characteristic properties of materials, and simple mechanics to better describe the world and non-living matter. The course emphasizes precise measurements and descriptive analysis of experimental results. Topics covered may include energy and motion, electricity, magnetism, heat, the structure of matter, and how matter reacts to materials and forces. Strong math skills are highly recommended. This course is designed to meet the requirements of the College Board AP Physics 1 course. Students will receive 1.0 Honors Science credit upon completion of this two-semester course (0.5 credit each semester).

AP Chemistry

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments	\$25 lab fee/semester AP Exam Fee, if applicable	1.0 Honors Science

AP Chemistry is designed to offer rigorous coursework in the study of molecules and atoms and their reactions. It should be taken after a high school level course in Chemistry, as well as a second year of Algebra. This course contains extensive lab opportunities. This course is designed to meet the requirements of the College Board AP Chemistry course. Students will receive 1.0 Honors Science credit upon completion of this two-semester course (0.5 credit each semester).

AP Environmental Science

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments	\$25 lab fee/semester AP Exam Fee, if applicable	1.0 Honors Science

The goal of the AP Environmental Science course 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 human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Yet there are several major unifying constructs, or themes, that cut across the many topics included in the study of environmental science. This course is designed to meet the requirements of the College Board AP Environmental Science course. Students will receive 1.0 Honors Science credit upon completion of this two-semester course (0.5 credit each semester).

History and Social Studies Department

History and Social Studies Courses Based on Post Secondary Plans

Post Secondary Plan	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Workforce, 2 yr College, OR Technical School	History 7	History 8	World History	Entrepreneurship/ Financial Lit	US/Arizona History	Economics & Civics
4 Year University*	History 7 Honors	History 8 Honors	World History Honors or DE World History	Entrepreneurship/ Financial Lit	US History Honors or AP US History	AP US Government/ Macroeconomics
Top Tier 4 Year University**	History 7 Honors	History 8 Honors	AP World History or DE World History	Entrepreneurship/ Financial Lit	AP US History or DE History	AP US Government/ Macroeconomics

History and Social Science Courses

Grade				Course Name	School	
9	10	11	12		AT	ALAV
X	X	X	X	World History	X	X
X	X	X	X	World History Honors	X	X
		X	X	US/Arizona History	X	X
		X	X	AP United States History	X	
			X	Economics	X	X
			X	Civics/Government	X	X
			X	AP Macroeconomics	X	
			X	AP US Government & Politics	X	
Eligible for Elective Credit:						
	X	X	X	AP Human Geography		
	X			Financial Literacy (required)	X	X
	X			Entrepreneurship Launchpad (required)	X	X

World History

Prerequisites or Requirements	Fees	Credit
None	None	1.0 Social Science

World History is a required course that explores the key events and global historical developments from the age of discovery to the 21st century. The scope of World History provides the latitude to range widely across all aspects of human experience: economics, science, religion, philosophy, politics and law, military conflict, geography, and the arts. Students will uncover patterns of behavior, identify historical trends and themes, explore historical movements and concepts, and test theories. Additionally, students will refine their ability to read for comprehension and analysis; summarize, categorize, compare, and evaluate information; write clearly and convincingly; express facts and opinions orally; and use technology appropriately to research, write, and present information. This course is designed to meet the requirements of the Arizona History and Social Science Content Standards. Students will receive 1.0 History/Social Science credit upon completion of this two-semester course (0.5 credit each semester).

World History Honors

Prerequisites or Requirements	Fees	Credit
Proficiency on District and State Assessments	None	1.0 Weighted Social Science

World History Honors is an advanced version of the required course, which is designed to develop a deeper understanding and analysis of the key events and global historical developments from the age of discovery to the modern world. The scope of World History provides the latitude to range widely across all aspects of human experience: economics, science, religion, philosophy, politics & law, military conflict, geography, and the arts. Through research and textual analysis, students will uncover patterns of behavior, identify historical trends and themes, explore historical movements and concepts, and test theories. Students will also work to master their ability to communicate clearly and convincingly; express facts and opinions orally; and use technology to research, write, and present information. Additional independent work and depth of rigor is utilized to prepare students for enrollment in AP courses. This course is designed to meet the requirements of the Arizona History and Social Science Content Standards. Students will receive 1.0 Weighted History/Social Science credit upon completion of this two-semester course (0.5 credit each semester).

US/Arizona History

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Social Science

This course provides a survey of American history from the emergence of the first North American civilizations to the present day. The concepts of critical thinking and analysis introduced in earlier grades will allow students to assess how and why America has come to exist as a nation and global power. Students will also work to develop their ability to communicate clearly and convincingly; express facts and opinions orally; and use technology to research, write, and present information. This course is designed to meet the requirements of the Arizona History and Social Science Content Standards. Students will receive 1.0 History/Social Science credit upon completion of this two-semester course (0.5 credit each semester).

Economics

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Social Science

This course provides a one-semester study of Economics in which students learn the fundamental concepts of micro-, macro-, and international economics. The students will develop economic reasoning skills to apply basic economic concepts, assess problems, and make choices. Students will also have an opportunity to evaluate the choices of others as consumers, workers, and citizens participating in local, national, and global economics. This course is designed to meet the requirements of the Arizona History and Social Science Content Standards. Students will receive 0.5 Economics credit upon completion of this semester course.

Civics/Government

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Social Science

This course provides a one-semester study of Civics and Government in which students are introduced to the fundamental tools utilized by political scientists to study the processes and outcomes of politics in a variety of national and international settings. Students will examine comparative politics (themes and generalizations), gain background knowledge of international political systems and governments, and compare and contrast global political systems. Additionally, students will analyze the American Constitution assessing what it means to be a citizen participating in the American Democratic system. This course is designed to meet the requirements of the Arizona History and Social Science Content Standards. Students will receive 0.5 Civics credit upon completion of this semester course.

AP United States History

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments	AP Exam Fee, if applicable	1.0 Weighted Social Science

AP United States History is a chronological survey of the history of the American nation from the colonial period to the present day. It is a demanding course with an emphasis which goes beyond the memorization of facts. To prepare for the rigorous AP assessment held in May, students will participate in research and debate, write argumentative and informative essays, and interpret and analyze historical data and writing. Only students who intend to take the Advanced Placement Test should enroll in this course. This course is designed to meet the requirements of the College Board AP United States History course. Students will receive 1.0 Weighted History/Social Science credit upon completion of this two-semester course (0.5 credit each semester).

AP Macroeconomics

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments	AP Exam Fee, if applicable	0.5Weighted Social Science

This is a college-level course intended to prepare seniors to take the AP Macroeconomics test in May. In this course students are introduced to the concepts and principles that apply to economic systems as a whole. Students learn to apply disciplinary reasoning to assess the causes and consequences of economic events and interpret data to develop evidence-based arguments. Students learn to use and analyze graphs, charts, and data to explain and apply economic concepts. Topics of study include national income and price-level determination, economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. This course is designed to meet the requirements of the College Board AP Macroeconomics course. Students will receive 0.5 Weighted Economics credit upon completion of this semester course.

AP United States Government and Politics

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments	AP Exam Fee, if applicable	0.5 Weighted Social Science

This is a college-level course intended to prepare seniors to take the AP US Government and Politics test in May. The course introduces students to politically significant concepts and themes through direct instruction and literary analysis. Students learn to apply disciplinary reasoning to assess the causes and consequences of political events and interpret data to develop evidence-based arguments. Students learn to use and analyze graphs, charts, and data to both explain and connect political concepts. Topics of study include key political ideas and institutions, policies and policy decisions, role and expectations of citizens, and American political culture. This course is designed to meet the requirements of the College Board AP US Government and Politics course. Students will receive 0.5 Weighteds Civics credit upon completion of this semester course.

AP Human Geography

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Proficiency on District and State Assessments	AP Exam Fee, if applicable	1.0 Weighted Social Science

AP Human Geography is an excellent introductory course to the rigor of AP classes. The course will emphasize the ways in which the study of geography leads to a greater understanding of the human experience. Students will use spatial concepts and landscape analysis to examine human organizations and their environmental consequences. Students will analyze maps, interpret and identify relationships among patterns, and characterize the ever-shifting interconnectedness and phenomena between different global locations. Topics of study include: population, migration, climate, biodiversity, culture, political organizations, land usage, and industrialization. This course is designed to meet the requirements of the College Board AP Human Geography course. Students will receive 1.0 Weighted Elective credit upon completion of this two-semester course (0.5 credit each semester).

Financial Literacy

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	0.5 Financial Literacy

Financial Literacy is a **required course that 10th grade students are typically enrolled in** and will prepare them for the rigor of post-secondary life. Students will aid in self-development and independence. Students will learn a variety of financial strategies ranging from balancing an account to buy a house, interest and the stock market. Students are expected to set up a personal budget and manage the elements within based on the constraints of society and their goals. This is a required course. Students will receive 0.5 Financial Literacy credit upon completion

of this semester course.

Entrepreneurship Launchpad

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	0.5 Elective

The Entrepreneurship Launchpad is a ***required course that 10th grade students are typically enrolled in***. It is a hands-on business and leadership course. Students will work in teams to start and operate a small “business” (income generating activity) of their choice, using practical tools learned in the course. This course offers students the chance to learn more about who they are and who they want to become. This course will include weekly guest lectures from experienced entrepreneurs, bankers, and other community leaders. Students will have the opportunity to network with and receive mentoring from business leaders and entrepreneurs in the community. Students will receive 0.5 Elective credit upon completion of this semester course.

World Languages Courses

Grade				Course Name	School	
9	10	11	12		AT	ALAV
X	X	X	X	American Sign Language 1	X	
X	X	X	X	American Sign Language 2	X	
	X	X	X	American Sign Language 3 Honors	X	
		X	X	American Sign Language 4 Honors	X	
X	X	X	X	Spanish 1	X	X
	X	X	X	Spanish 2	X	X
X	X	X	X	Spanish 3 Honors	X	X
X	X	X	X	AP Spanish Language and Culture	X	
		X	X	DE Spanish Conversation	X	

American Sign Language 1

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Foreign Language or Elective

This is an introductory class focusing on beginning conversational skills. The course is based on a natural acquisition approach to language education. The class focuses on developing basic knowledge of and beginning skills in the conversational use of American Sign Language. This course is designed to meet the requirements of the world and native language standards. Students will receive 1.0 Foreign Language or Elective credit upon completion of this two-semester course (0.5 credit each semester).

American Sign Language 2

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
C or better in ASL 1 or equivalent	None	1.0 Foreign Language or Elective

The course is based on a natural acquisition approach to language education. The class focuses on expanding the knowledge and skills gained in American Sign Language 1 and in the conversational use of American Sign Language. This course is designed to meet the requirements of the world and native language standards. Students will receive 1.0 Foreign Language or Elective credit upon completion of this two-semester course (0.5 credit each semester).

American Sign Language 3 Honors

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
C or better in ASL 2 or equivalent	None	1.0 Honors Foreign Language or Elective

The course is based on a natural acquisition approach to language education. The class focuses on expanding the knowledge and skills gained in American Sign Language 2 and in the conversational use of American Sign Language. Students will engage in conversations with native signers, as well as complete a series of novel units and cultural awareness projects that look closely at the lives of deaf people. This course is designed to meet the requirements of the world and native language standards. Students will receive 1.0 Honors Foreign Language or Elective credit upon completion of this two-semester course (0.5 credit each semester).

American Sign Language 4 Honors

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
C or better in ASL 3 or equivalent	None	1.0 Honors Foreign Language or Elective

The course is based on a natural acquisition approach to language education. The class focuses on expanding the knowledge and skills gained in American Sign Language 3 and in the conversational use of American Sign Language. Students will engage in conversations with native signers and will also complete a series of novel units and cultural awareness projects that look closely at the lives of deaf people. This course is designed to meet the requirements of the world and native language standards. Students will receive 1.0 Honors Foreign Language or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Spanish 1

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Foreign Language or Elective

This course is an introduction to the language and culture. In Spanish 1 the student learns vocabulary and grammar through listening, speaking, reading and writing. Emphasis is on listening and reading comprehension and simple conversational skills through role-playing, skits and other interactive methods. This course may be taught concurrently with junior high courses whose students have comparable skills. **This class is not designed for native speakers.** This course is designed to meet the requirements of the world and native language standards. Students will receive 1.0 Foreign Language or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Spanish 2

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Spanish 1 or equivalent	None	1.0 Foreign Language or Elective

This course includes more practice in listening, speaking, reading and writing skills. New vocabulary and grammar are presented. The students will improve writing skills through simple compositions. They will continue to explore the culture of the Hispanic world. This course may be taught concurrently with junior high courses whose students have comparable skills. **This class is not designed for native speakers.** This course is designed to meet the requirements of the world and native language standards. Students will receive 1.0 Foreign Language or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Spanish 3

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Spanish 2 or equivalent	None	1.0 Weighted Foreign Language or Elective

Students will become more fluent in speaking, reading, and writing skills. Students will make oral presentations and have the ability to communicate on a variety of topics. Students will be able to read and understand Spanish texts including literature, magazine articles and historical documents. Students will demonstrate mastery in the French language as they discuss and present their findings related to the texts. This course is designed to meet the requirements of the world and native language standards. Students will receive 1.0 Weighted Foreign Language or Elective credit upon completion of this two-semester course (0.5 credit each semester).

AP Spanish Language & Culture

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Spanish 3 or equivalent	AP Exam Fee, if applicable	1.0 Honors Foreign Language or Elective

The AP Spanish Language and Culture course emphasizes communication by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The course engages students in an exploration of culture in both contemporary and historical contexts. This course is designed to meet the requirements of the College Board AP Spanish Language & Culture Course. Students will receive 1.0 Honors Foreign Language or Elective credit upon completion of this two-semester course (0.5 credit each semester).

DE Elementary Spanish

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Spanish 2 or equivalent	College tuition, if applicable	1.0 Weighted Foreign Language or Elective

Students will become more fluent in speaking, reading, and writing skills. Students will make oral presentations and have the ability to communicate on a variety of topics. Students will be able to read and understand Spanish texts including literature, magazine articles and historical documents. Students will demonstrate mastery in the Spanish language as they discuss and present their findings related to the texts. This course is designed to meet the requirements of the world and native language standards. Students are required to enroll with the partner community college and pay appropriate fees. Students who complete the course while enrolled in the partner community college will receive corresponding college credit at that school. Students will receive 1.0 Weighted Foreign Language or elective credit upon completion of this 2-semester course.

DE Intermediate Conversation

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Spanish 3 or equivalent	College tuition, if applicable	1.0 Weighted Foreign Language or Elective

This course continues to emphasize communication by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes continued practice in vocabulary usage, language control, communication strategies, and cultural awareness. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. This course focuses on fluency and accuracy in spoken Spanish. Students are required to enroll with the partner community college and pay appropriate fees. Students who complete the course while enrolled in the partner community college will receive corresponding college credit at that school. Students will receive 1.0 Weighted Foreign Language or elective credit upon completion of this 2-semester course.

DE Spanish Conversation

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
C or better in DE Elementary Spanish	College tuition, if applicable	1.0 Weighted Foreign Language or Elective

This course emphasizes communication by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The course

engages students in an exploration of culture in both contemporary and historical contexts. Students who wish to pursue college credit must enroll with the partner community college and pay appropriate fees. Students will receive 1.0 Weighted Foreign Language or elective credit upon completion of this 2-semester course.

Fine Arts Department Courses

Grade				Course Name	School	
9	10	11	12		AT	ALAV
X	X	X	X	Music Appreciation		X
X	X	X	X	Choir I	X	
X	X	X	X	Art I	X	X
X	X	X	X	Mixed Media Art II	X	X

Fees are assessed per semester and do not include uniform, performance attire, or instrument rental.

Music Appreciation

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Fine Arts or Elective

This course is designed to expand knowledge of musical traditions and styles and enhance the student's ability to listen to music critically. Much of this course will be historically based and will focus on the political, cultural, and social aspects that have shaped the musical genres of each period. It is designed to give the student thorough aural perception, as well as an understanding and appreciation of music as a moving force in Western Culture. Students will receive 1.0 Fine Arts or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Choir I

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Fine Arts or Elective

A beginning choir that will give students the opportunity to learn musicianship skills including vocal and breathing techniques, vowel placement, section unity, music theory and history. Depending on course demand and enrollment, Choir I may be a men's, women's, or mixed ensemble. Junior high students with comparable skills may be placed in this class. This course will include class concerts or school performances. Performance attire will be required. This course is designed to meet the requirements of the Arizona Standards for the Arts. Students will receive 1.0 Fine Arts or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Art I

<i>Prerequisites or Requirements or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Fine Arts or Elective

This introductory year long course will study the fundamental elements of art, Principles of Design, and Art Critique. Class projects will include learning the proper use of additional art media, the history of each art form, and the study of the application of different art forms in society. This course is designed to meet the requirements of the Arizona Standards for the Arts. Students will receive 1.0 Fine Arts or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Mixed Media Art II

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Art I/Teacher Approval	\$25/semester	1.0 Fine Arts or Elective

This intermediate level class will expand the elements of the visual arts. Students will further apply these concepts to the visual art forms of drawing, painting, sculpture, and expand into the additional forms of textiles, mixed media and illustration. This course is designed to meet the requirements of the Arizona Standards for the Arts. Students will receive 1.0 Fine Arts or Elective credit upon completion of this two-semester course (0.5 credit each semester).r).

Physical Education Courses

Grade				Course Name	School	
9	10	11	12		AT	ALAV
X	X	X	X	Fitness & Nutrition	X	

All PE courses require students to be in approved PE attire.

Fitness & Nutrition

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 PE or Elective

The Fitness and Nutrition course creates an opportunity for students to extend their learning around a lifetime of fitness and physical activity. This course offers students a foundation in physical education and will focus on fitness concepts, building a fitness baseline, goal setting, and making and following a weekly fitness plan. Students taking this course should be motivated to be physically active and learn about basic nutrition. Students must also have the ability to film and submit video via mobile device or other method. This course meets the requirements of Arizona Physical Education Content Standards. Students will receive 1.0 Physical Education or Elective credit upon completion of this two-semester course (0.5 credit each semester)

Elective Courses

Grade				Course Name	Schooln	
9	10	11	12		AT	ALAV
				Business Management & Finance I	X	
X	X	X	X	Business Communications & Technology/Career Exploration	X	
		X	X	Creative Writing		X
X	X	X	X	Digital Photography I	X	X
X	X	X	X	Gaming Design I	X	
X	X	X	X	CTE Graphic Design I	X	
	X	X	X	CTE Graphic Design II	X	
	X	X	X	DE Intro to Business	X	
X	X	X	X	DE Technology Essentials		
X	X	X	X	Gaming Careers and Esports	X	
X	X	X	X	Media Streaming and Mass Communication I	X	
X	X	X	X	Intro to Psychology	X	X
X	X	X	X	Leadership		X
X	X	X	X	Release Time	X	
X	X	X	X	Spanish Medical Terminology	X	
X	X	X	X	Student Council	X	
		X	X	Student Aide	X	
X	X	X	X	Work-based Learning Internship	X	
X	X	X	X	Yearbook	X	
X	X	X	X	Learning Lab	X	X

Business Management & Finance I

Prerequisites or Requirements	Fees	Credit
None	\$75	1.0 CTE or Elective

This course introduces students to the world of business and sets a solid foundation for high school, college, and career. Students will be engaged in teamwork, presentations, computer-related activities, and current events while learning the following topics: today's economy, business ownership, getting and keeping a job, how to be a wise consumer, managing money, understanding banking and credit, and types of insurance. In addition, this course provides students with an overview of the principles of business finance. The course focuses on: economics, marketing, accounting procedures, and the global financial market. An integral component of the curriculum is the application of decision-making skills that enable students to become more responsible consumers, producers, or business entrepreneurs. Upon completion of this course, students may test for the Microsoft Office Specialist (MOS) – Associate for Office 365. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will receive 1 CTE or Elective credits upon completion of this two semester course (.5 credit each semester).

Business Communication & Technology/ Career Exploration

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Elective

This is a required course designed to prepare 9th grade students for their high school and post-graduation paths. Students will develop their written and oral communication skills through hands-on activities that utilize common office software programs such as word processors, spreadsheets, and presentations. The students will discover their strengths and weaknesses as well as learn how to apply those to work well with others and develop their skills and talents. Students will also explore the various programs of the campus and the careers those programs could lead to post graduation. Students will demonstrate mastery of concepts through unit essays and presentations as well as through a capstone project. Activities will focus in areas such as leadership, teamwork, project management, data analysis, and marketing. Students will receive 1.0 Elective credit upon completion of this two-semester course (0.5 credit each semester).

Creative Writing

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Elective

Creative Writing is an elective course. This Senior course provides students with the opportunity to write and think creatively across fields involving story-telling, narrative, poetry, play-writing and others as students learn to analyze and hone their writing skills. Students will study exemplary representations from authors and playwrights in addition to developing and supporting their own skill and technique. Students will receive 1.0 Elective credit upon completion of this two-semester course (0.5 credit each semester).

Digital Photography I

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$35/semester	1.0 CTE or Elective

This is a basic course teaching the foundational principles of photography including composition, exposure, technique, principles of art, history, lighting, equipment, etc. Students must provide their own digital camera to complete approximately 10 out-of-class photo assignments and critique classmates' work. Many photo collections of great photographers will also be reviewed and critiqued as a class. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Game Design I

<i>Prerequisites</i>	<i>Fees</i>	<i>Credit</i>
None	\$100	1.0 CTE or Elective

The CTE Game Design I class builds the foundation of programming skills through the development of 2-D and 3-D original games. Students are introduced to C# programming and game development with Unity 3D while emphasizing object-oriented programming, problem-solving, and algorithm development. Students will explore the video game industry, game theory, storyboarding, sprite animation, game physics, and game analysis as they apply to video game development and mobile devices. Students will utilize hands-on experience to apply knowledge, concepts, and skills of game design and development. *Students can take CTE Game Design I and II instead of Software and App Design I and II lab.

CTE Graphic Design I

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$35/semester	1.0 CTE or Elective

This course is an introduction to the technical skills and knowledge related to Graphic Design. Students will learn how to create a variety of digital publications and art, both 2D and 3D, using industry standard software such as Adobe Photoshop, Illustrator, and InDesign. Students will have the opportunity to design logos, icons, fonts, flyers, posters, t-shirts, publications, and much more. Interested students should be able to work independently and with a group, and have creative ideas. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

CTE Graphic Design II

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
CTE Graphic Design I	\$35/semester	1.0 CTE or Elective

This course is for those students who wish to further their technical skills and knowledge related to Graphic Design. Students will have the opportunity to design a variety of advertising, posters, and publications for the school as well as develop a portfolio of their own. Leadership development, and work-based learning will be emphasized. The Graphic Design program will prepare students for industry certification and opportunity to earn an Adobe Certified Associate (ACA) certificate. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

DE Intro to Business

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	College tuition if applicable	1.0 Elective

Characteristics and activities of current local, national, and international business. An overview of economics, marketing, management and finance. This course is designed to meet the Arizona Science Standards for MCCC DGBS 151. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will receive 1.0 Elective credit upon completion of this two-semester course (0.5 credit each semester).

DE Technology Essentials

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	College Tuition as applicable	0.5 Elective Credit

Overview of computer technology, concepts, terminology, and the role of computers in business and society. Discussion of social and ethical issues related to computers. Use of word processing, spreadsheet, database, and presentation software. Includes uses of application software and the Internet for efficient and effective problem solving. Exploration of relevant emerging technologies. Students who complete this course while enrolled in the partner Community college will receive corresponding college credit at that school, and be required to pay corresponding fees. Students who complete the course while enrolled in the partner community college will receive corresponding college credit at that school. Students will receive 0.5 Elective credit upon completion of this one-semester course.

Gaming Careers and Esports

<i>Prerequisites</i>	<i>Fees</i>	<i>Credit</i>
Enrollment in Esports	None	.5 Elective

This semester-long class is designed as an introductory program tailored for students aspiring to venture into the realm of gaming careers and Esports. **Developed for our Esports team members**, the course serves as a comprehensive exploration of potential career paths within the gaming industry. It goes beyond the scope of traditional computer science or video game programming courses, providing students with exposure to diverse and often overlooked career opportunities. In addition to academic content, the course emphasizes the importance of incorporating healthy practices into the gaming and Esports lifestyle. It encourages students to maintain a balance between their passion for gaming and well-being. The course emphasizes the significance of physical activity and overall health (some exercise will be required). Students will receive .5 Elective credit upon completion of this single-semester course (0.5 credit each semester).

Media Streaming and Mass Communication I

<i>Prerequisites</i>	<i>Fees</i>	<i>Credit</i>
None	\$100	1.0 CTE or Elective

In this year long course students will gain foundational knowledge of both existing and emerging digital communication technologies, the history of mass communication, and a blend of content creation with digital citizenship at its heart. Students will become familiar with audiovisual equipment, online mass media platforms, graphic design software, and audiovisual production applications while preparing, planning, and creating both synchronous and asynchronous content. The course focuses will include scheduled content creation, commentary, and both single and serial formats for various applications. Students will create basic media calendars, scripts, creative plans, and personal value statements for an intended audience or field.

Intro to Psychology

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$25/semester	1.0 Elective

The purpose of the Intro to Psychology course 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. Students will receive 1.0 Elective credit upon completion of this two-semester course (0.5 credit each semester).

Leadership

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Elective

This course is a general overview of leadership concepts. Students will learn and develop leadership skills. A general framework of leadership will be taught by exploring the interaction between the leader, the followers and the situation. Various real-world, contemporary and historical examples of influential leaders will be examined

including business, political, philosophical and religious. Students will learn the importance of vision, values, personality traits and leadership skills for effective leaders. Students will also learn the importance of various situational factors on leadership performance as well as the importance of understanding follower's motivations. Students will learn from various leadership books (Leadership and Self-Deception, Good to Great, Seven Habits, etc.) group activities, articles, research and class discussions. Students participating in this class will be required to complete service projects each semester as assigned. Students will receive 1.0 Elective credit upon completion of this two-semester course (0.5 credit each semester).

Release Time

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	No Credit

Arizona law permits the release of students from school for religious instruction or vocational training. Choosing the course will enable students to pick a class period(s) at registration that will be excluded from their course schedules for activities such as EVIT, job training, religious instruction, etc. Only those students in good academic standing are eligible to register for released time. Request for release time does not guarantee that the student will receive it. Students do not receive credit for this course.

Spanish Medical Terminology

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Spanish I	None	1.0 Elective

This course targets pronunciation, listening, vocabulary, and reading comprehension, as well as sentence building. It covers basic vocabulary and the process of visiting a medical office and being in the examination room. Students will receive 1.0 Elective credit upon completion of this two-semester course (0.5 credit each semester).

Student Aide

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
3.0 GPA, Admin Approval	None	1.0 Elective

Students will be assigned to an office and serve as an assistant performing a variety of clerical duties. Students will receive 0.5 Elective credit upon completion of this semester course. Students may earn a maximum of 2 credits towards graduation. Students will receive a Pass/Fail grade in this course.

Student Council

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Election, Audition	\$25/semester	1.0 Elective

This class period is for activities related to student government and leadership. This course may be repeated in the fall of the following school year. Elections will be held for these classes. Depending on course structure, students may also participate by audition. Administration reserves the right to remove students from class for failure to meet leadership or behavior standards. Additional requirements may be established in the course syllabus. Students will receive 1.0 Elective credit upon completion of this two-semester course (0.5 credit each semester).

Work-based Learning Internship

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Elective

This course offers students the opportunity to participate in a structured internship. Students will be expected to complete at least 120 hours of work-based learning and upon completion, will receive a Pass or Fail grade. Students must have teacher permission to participate in a Work-based Learning course. Students may earn 0.5 or 1.0 elective credit upon completion of the one or two semester course. Students may earn up to 2.0 credits of work-based learning elective credits during their high school career.

Yearbook

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Teacher Approval	\$25/semester	1.0 Elective

Students will use principles of page design, publishing techniques, copywriting, editing, photography, and other journalism skills to produce a creative, innovative yearbook. Participants gain useful, real world skills in time management, marketing, teamwork, and design principles. Students will receive 1.0 Elective credit upon completion of this two-semester course (0.5 credit each semester).

Learning Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	None

The Learning Lab is a non-credit bearing course wherein students are able to use a computer to access coursework from post-secondary institutions as well as for credit recovery through ALA-Virtual. A proctor is present in the room and provides students with general support pertaining to access issues, general questions regarding instructions, etc. Students must present their transcripts for coursework completed with other institutions to their Student Services Advisor for review of credit toward ALA graduation.

College & Career Readiness Courses

Calling all Seniors, we are excited to provide some college and career courses to help you prepare for the day after graduation. From learning to be the best employee in the workforce, in competitive athletics, and professional fine arts, to obtaining certifications to give you a leg up in the business world; we have built options to help you get ready for the world.

Grade				Course Name	School	
9	10	11	12		AT	ALAV
			X	Career Experience	X	X
			X	Premier Athletics	X	X
			X	Premier Fine Arts	X	X
			X	CTE Graphic Design I	X	
			X	Business Management & Finance I	X	
			X	IT Network & Security I	X	
			X	Empire/CAT Go Big	X	

Empire/CAT Go Big- Capstone

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
	\$40	1.0 Elective

The Empire Go Big internship program is an opportunity for students to receive Caterpillar equipment technician training from Empire Southwest professionals. Students selected for this program will receive on-the-job training and accelerate their future in diesel technologies. The first semester is composed of classroom instruction and laboratory time in the Empire training facility broken down into two parts. One portion is an introduction to the Caterpillar organization and provides instruction in shop safety, shop operation, service tools, etc. The other portion is an introduction into engine concepts, operation, basic components and systems of diesel engines. The second semester is spent interning with Empire employees in several different shop environments where students learn first-hand in a professional environment with real world examples. Students will be required to log hours and engage in discussion questions within the Canvas platform. Successful students may be directly hired to work at Empire or receive preferential admission to the Empire/MCC Think Big apprenticeship program.

Students will receive 1.0 Elective credit upon completion of this two-semester course (0.5 credit each semester).

Career Experience (Online)

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Must have obtained employment	None	.5 or 1.0 Elective (dependent on hours)

The Career Experience course is designed to equip students with the skills and knowledge necessary to thrive in the workplace. Through this course, students will learn how to operate effectively in a professional environment while managing employer expectations. The course will cover topics such as workplace communication, time

management, teamwork, conflict resolution, and professional etiquette. Additionally, students will develop an understanding of how to navigate the job market and identify potential career opportunities.

The course will use a combination of short research based articles, discussion questions, and career based assignments to ensure that students are engaged and able to apply what they have learned in real-world situations. By the end of the course, students will have the tools they need to succeed in their careers and build long-lasting relationships with their employers. Students will receive credit for the following clock hours: minimum of 10 hours of work per week for .5 credit, 15+ hours of work per week for 1 credit for this single semester course.

Premier Athletics (Online)

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Must be enrolled in competitive or club Athletics, or training for College Athletic program	None	.5 or 1.0 Elective (dependent on hours)

The Premier Athletics course is designed to equip students with additional skills necessary to be an effective member of a team in a competitive athletic environment. Through this course, students will learn about the importance of teamwork, commitment, nutrition, and strength training for optimal performance.

The course will use a combination of short research based articles, discussion questions, and assignments aligned to an athletic environment to ensure that students are engaged and able to apply what they have learned in real-world situations. By the end of the course, students will have the tools they need to succeed and excel not only physically but mentally in competitive athletics. The student must be a confirmed member of a competitive sports team, or individual club sports organization. . Students will receive credit for the following clock hours: minimum of 10 hours of training per week for .5 credit, 15+ hours of training per week for 1 credit for this single semester course.

Premier Fine Arts (Online)

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Enrolled or cast in community or professional fine arts program or production	None	.5 or 1.0 Elective (dependent on hours)

The Premier Fine Arts course is designed to equip students with additional skills necessary to be an effective member of a cast or fine arts team or production in a community or professional performance environment. Through this course, students will learn about the importance of teamwork, commitment, culture, and how to become their best in the performance or technical based fine arts environment.

The course will use a combination of short research based articles, discussion questions, and assignments aligned to a fine arts performance or technical based environment to ensure that students are engaged and able to apply what they have learned in real-world situations. By the end of the course, students will have the tools they need to succeed and excel not only in all areas of performance or technical based fine arts. The student must be a confirmed member of a fine arts organization, or cast in a performance in which extensive rehearsal work and time commitment is required. The student must be working, rehearsing/performing for a minimum of 10 hours per week to receive .5 credit, and 15 hours a week to receive 1 elective credit.. Students will receive credit for the following clock hours: minimum of 10 hours of work per week for .5 credit, 15+ hours of work per week for 1 credit for this single semester course.

Business Management & Finance I (located at ALA Applied Technologies Campus)

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	.5 CTE or Elective

This course introduces students to the world of business and sets a solid foundation for high school, college, and career. Students will be engaged in teamwork, presentations, computer-related activities, and current events while learning the following topics: today's economy, business ownership, getting and keeping a job, how to be a wise consumer, managing money, understanding banking and credit, and types of insurance. In addition, this course provides students with an overview of the principles of business finance. The course focuses on: economics, marketing, accounting procedures, and the global financial market. An integral component of the curriculum is the application of decision-making skills that enable students to become more responsible consumers, producers, or business entrepreneurs. Upon completion of this course, students may test for the Microsoft Office Specialist (MOS) – Associate for Office 365.

CTE Graphic Design I (located at ALA Applied Technologies Campus)

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$35/semester	.5 CTE or Elective

This course is an introduction to the technical skills and knowledge related to Graphic Design. Students will learn how to create a variety of digital publications and art, both 2D and 3D, using industry standard software such as Adobe Photoshop, Illustrator, and InDesign. Students will have the opportunity to design logos, icons, fonts, flyers, posters, t-shirts, publications, and much more. Interested students should be able to work independently and with a group, and have creative ideas. Students will complete and receive Adobe Certification upon successful passing of the course and applicable exam. Students will receive .5 CTE or Elective credit upon completion of this single semester course (0.5 credit each semester).

IT & Network Security I (located at ALA Applied Technologies Campus)

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	.5 CTE or Elective

In this course, students will learn how information technology systems operate. This course introduces principles of computers, basic concepts of software development and computer maintenance with an emphasis on network security technologies. Students will also acquire an understanding of the IT industry, computer mathematics, and the evolution of the computer. Students in this program will be working towards CompTIA certification in: A+, IT Fundamentals, Network+, Security+. Students will receive .5 CTE or Elective credit upon completion of this single semester course (0.5 credit each semester).

English Language Development (ELD)

English Language Development courses are designed to develop and grow English language proficiency among English Learners. These courses fulfill the Arizona requirements for targeted instruction and provide intensive language instruction to prepare students for success in mainstream courses.

Grade				Course Name	School	
9	10	11	12		AT	ALA V
X	X	X	X	English Language Development 101	X	X
X	X	X	X	English Language Development 102	X	X
X	X	X	X	English Language Development 103	X	X

English Language Development 101

Prerequisites or Requirements	Fees	Credit
AZELLA Emergent	None	1.0 Elective

English Language Development (ELD) focuses on the language skills and knowledge of how English functions within the four domains of reading, writing, listening, and speaking. The course is designed to support students' acquisition of the English language specifically through discourse practices, grammatical structures, writing, vocabulary, and reading skills necessary for successful participation in academic tasks across the content areas. Students who are determined to be at the Emergent level as determined by AZELLA are placed in this course. Students may earn 1.0 elective credit for this two semester course. *This course is for elective credit and students should also be placed in an English class.*

English Language Development 102

Prerequisites or Requirements	Fees	Credit
AZELLA Basic	None	1.0 Elective

English Language Development (ELD) focuses on the language skills and knowledge of how English functions within the four domains of reading, writing, listening, and speaking. The course is designed to support students' acquisition of the English language specifically through discourse practices, grammatical structures, writing, vocabulary, and reading skills necessary for successful participation in academic tasks across the content areas. Students who are determined to be at the Basic level as determined by AZELLA are placed in this course. Students may earn 1.0 elective credit for this two semester course. *This course is for elective credit and students should also be placed in an English class.*

English Language Development 103

Prerequisites or Requirements	Fees	Credit
AZELLA Intermediate	None	1.0 Elective

English Language Development (ELD) focuses on the language skills and knowledge of how English functions within the four domains of reading, writing, listening and speaking. The course is designed to support students' acquisition of the English language specifically through discourse practices, grammatical structures, writing, vocabulary, and reading skills necessary for successful participation in academic tasks across the content areas. Students who are determined to be at the Intermediate level as determined by AZELLA are placed in this course. *This course is for elective credit and students should also be placed in an English class.*

Exceptional Student Services Courses (ESS)

All courses meet Arizona high school graduation requirements. Arizona university entrance may require additional coursework prior to admission. Special education classes are offered to eligible students as determined by an Individualized Educational Plan (IEP). Students who have been placed in the Skills Program based on an IEP team decision, will have an individualized course plan.

Grade				Course Name	School	
9	10	11	12		AT	ALAV
X	X	X	X	English Concepts I		X
	X	X	X	English Concepts II		X
		X	X	English Concepts III		X
			X	English Concepts IV		X
X	X	X	X	Algebra Concepts		X
	X	X	X	Geometry Concepts		X

English Concepts I

Prerequisites or Requirements	Fees	Credit
Admin Approval	None	1.0 English

This course will utilize grade level curriculum through a multi-sensory approach. Students will study selected novels, short stories, poetry, plays and nonfiction writing. Students will develop skills in vocabulary, literary analysis, persuasive writing and grammar. Modifications developed through individualized education plans combined with grade level expectations will drive the academic choices of this course. This course is designed to meet the requirements of the Arizona Language Arts Standards. Students will receive 1.0 English credit upon completion of this two-semester course (0.5 credit each semester).

English Concepts II

Prerequisites or Requirements	Fees	Credit
Admin Approval	None	1.0 English

English Concepts II will allow students to continue their studies of literature through an analysis of fiction, nonfiction, drama and poetry. English Concepts 2 is aligned with World Literature and 10th grade Arizona state standards to support student mastery of content appropriate vocabulary to enhance their writing development through response to reading and research. Emerging writers will articulate through persuasion, narration, exposition, research, text connections and speech. Modifications developed through individualized education plans combined with grade level expectations will drive the academic choices of this course. This course is designed to meet the requirements of the Arizona Language Arts Standards. Students will receive 1.0 English credit upon completion of this two-semester course (0.5 credit each semester).

English Concepts III

Prerequisites or Requirements	Fees	Credit
Admin Approval	None	1.0 English

The objectives of this course include developing students' understanding of the history and cultural progress of our country through American literature. Students will also be expected to demonstrate mastery of 11th grade Arizona state standards. Students will analyze perceptions and experiences of selected American authors, the evolution of

literature reflective of American literary periods from the Puritan era through modern times by exploring the customs and norms of each period. Students will continue to develop their writing skills by focusing on their purpose through voice and genre according to their audience. Modifications developed through individualized education plans combined with grade level expectations will drive the academic choices of this course. This course is designed to meet the requirements of the Arizona Language Arts Standards. Students will receive 1.0 English credit upon completion of this two-semester course (0.5 credit each semester).

English Concepts IV

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Admin Approval	None	1.0 English

English Concepts IV will meet the requirement for 12th grade Arizona state standards with an emphasis on classical literature. Students will continue to refine their writing skills through the development of argumentative/persuasive works, as well as research and narrative styles. Modifications to the individual writing components will be addressed to meet post-secondary goals, such as college entrance essays, job or college applications or research on vocational rehabilitation. Modifications developed through individualized education plans combined with grade level expectations will drive the academic choices of this course. This course is designed to meet the requirements of the Arizona Language Arts Standards. Students will receive 1.0 English credit upon completion of this two-semester course (0.5 credit each semester).

Algebra Concepts

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Admin Approval	None	1.0 Math

Algebra Concepts is a first-year course for high school students, requiring modifications to the depth and pacing of content taught in Algebra 1. This course focuses on the real number system, quantities, expressions and probability. Algebra Concepts will also teach basic computation skills that students will be able to apply to real world situations. Foundational math skills will be embedded throughout each lesson to enhance targeted mastery required to move on to Geometry. Modifications developed through individualized education plans combined with grade level expectations will drive the academic choices of this course. This course is designed to meet the requirements of the Arizona Mathematics Standards for Algebra 1. Students will receive 1.0 Math credit upon completion of this two-semester course (0.5 credit each semester).

Geometry Concepts

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Admin Approval	None	1.0 Math

Geometry Concepts is an extension of the concepts taught in Algebra 1. Geometry topics focus on quantities, congruence, similarities, transformations, right triangles, circles, geometric properties with equations, measurement, modeling with geometry, and probability. Modifications developed through individualized education plans combined with grade level expectations will drive the academic choices of this course. This course was designed to address the requirements of the Arizona Mathematics Content Standards for Geometry. Students will receive 1.0 Math credit upon completion of this two-semester course (0.5 credit each semester).

The Academy of Automotive Technologies

Programs of Study

Students are required to take both the theoretical course and the lab course that correspond with their program of study.

Automotive Technician Program:

This is a three year program that prepares students to earn several industry certifications in vehicle repair and maintenance.

Grade				Course Name
9	10	11	12	
	X	X	X	Automotive Technologies I w/Lab
		X	X	Automotive Technologies II w/ Lab
			X	Automotive II: Custom & Restoration
			X	Automotive Technologies III w/ Lab
			X	Automotive Technology Apprenticeship/Internship
			X	Math Applications in Auto Technology
			X	Empire/CAT Go Big Capstone
			X	Automotive Technologies Capstone

Automotive Technologies I with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$200	2.0 CTE or Elective

This course is a theoretical introduction to the automotive industry including safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities and basic automotive maintenance. Students will be introduced to automotive systems for the general public/consumers. Students in this program will work towards ASE certification: Entry Level-Engine Repair, Brakes, Maintenance & Light Repair, HVAC, Engine Performance, Engine Performance, ASE Entry Level - Automatic Transmission, ASE Entry Level - Suspension and Steering. Students will also practice skills learned in the hands-on lab portion of the course. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Automotive Technologies II with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Automotive Technologies I	\$200	2.0 CTE or Elective

In this course students will continue the theoretical exploration of automotive systems. Students will understand standard inspections, maintenance and repair of: HVAC, Auto Transmission, Manual Transmissions, Engine, Steering and Suspension and Electrical systems in a lab based curriculum. Students will train to use industry standard automotive service and test equipment such as ECU scan tools, computerized wheel alignment equipment and wheel mounting equipment, and advanced engine performance diagnostic equipment. Students in this program will practice essential skills for ASE certification: Entry Level-Engine Repair, Brakes, Maintenance & Light Repair, HVAC, Engine Performance, Engine Performance, ASE Entry Level - Automatic Transmission, ASE

Entry Level - Suspension and Steering. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Automotive II: Custom & Restoration

<i>Prerequisites</i>	<i>Fees</i>	<i>Credit</i>
Automotive I	\$200	1.0 CTE Elective

The Automotive Custom & Restoration Program is an advanced course designed to prepare students for the exciting world of custom cars. Whether it be classic, modern, race, or drift, students will be able to learn the process from start to finish. The course will include Safety, Fabrication, Suspension, Brakes, Performance Drivetrain, Paint & Body, Interior, Wiring, Wheels & Tires, as well as an introduction to CAD and 3D Printing. Students will receive 1.0 Automotive III CTE elective credit upon completion of this two-semester course (0.5 credit each semester).

Automotive Technologies III with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Automotive Technologies II	\$200	2.0 CTE or Elective

In this course, students will prepare for taking the ASE national tests, entering advanced automotive training programs, and working in entry level automotive positions. Students will participate in authentic learning experiences in which they will provide a service to an organization or business. Students in this program will test for ASE certifications: Entry Level-Engine Repair, Brakes, Maintenance & Light Repair, HVAC, Engine Performance, Engine Performance, ASE Entry Level - Automatic Transmission, ASE Entry Level - Suspension and Steering. Advanced ASE certification in business operations, hybrid and alternative fueled vehicles will be available for students who meet ASE entry level standards. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Automotive Technology Apprenticeship/Internship

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Automotive Technologies II	None	1.0 CTE or Elective

In this course, students will be provided additional classroom lab time or on-the-job training for extended hands-on experiences. These real world, authentic activities reinforce the workplace skills necessary to master Automotive Technologies. Internship students will experience on-the-job training in a career path. Requirements include three weeks of classroom instruction in job preparation and application and 120 hours of on the job field work. Artifacts include a portfolio, two employer evaluations, two instructor field evaluations, a final, written summary and reflection. Students must provide their own transportation to the internship site.

Math Applications in Auto Technology

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
C or better in Algebra I or Instructor approval Successful completion of Auto Technology II	None	1.0 CTE or Elective

This course provides students instruction on how mathematical analysis can be used in the final course of the Transportation / Auto Technology program. Students develop, demonstrate, and communicate mathematical concepts that relate to algebraic functions, geometry, measurement, proportional reasoning, and statistics. Students gain real world experience by working on customer vehicles. Students gain valuable leadership and employment skills and receive opportunities for scholarships and community involvement by participating in SkillsUSA, a state and national career and technical student organization. This course is aligned with the Arizona Mathematics Standard and fulfills the fourth mathematics credit needed for graduation.

Empire/CAT Go Big- Capstone

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
	\$40	1.0 Elective

The Empire Go Big internship program is an opportunity for students to receive Caterpillar equipment technician training from Empire Southwest professionals. Students selected for this program will receive on-the-job training and accelerate their future in diesel technologies. The first semester is composed of classroom instruction and laboratory time in the Empire training facility broken down into two parts. One portion is an introduction to the Caterpillar organization and provides instruction in shop safety, shop operation, service tools, etc. The other portion is an introduction into engine concepts, operation, basic components and systems of diesel engines. The second semester is spent interning with Empire employees in several different shop environments where students learn first-hand in a professional environment with real world examples. Students will be required to log hours and engage in discussion questions within the Canvas platform. Successful students may be directly hired to work at Empire or receive preferential admission to the Empire/MCC Think Big apprenticeship program.

Students will receive 1.0 Elective credit upon completion of this two-semester course (0.5 credit each semester).

Automotive Technologies Capstone

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Completion of Two Years of Automotive Technologies Program Coursework	None	1.0 CTE or Elective

In this course, students will design a project using the fundamentals of project management, conduct research on their topic of interest, then produce a final written report, portfolio, or a presentation that summarizes and demonstrates student learning. The capstone project will relate to academic accomplishments and demonstrate mastery of the subject. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

The Academy of Aviation

Programs of Study

Students are required to take both the theoretical course and the lab course that correspond with their program of study.

Aircraft Mechanics:

This is a four year program that prepares students to earn A & P certification (Airframe and Power.)

Air Transportation:

This is a three year program that prepares students to earn pilot certifications in unmanned aerial vehicles (drones) and private aircraft (ground only).

Grade				Course Name
9	10	11	12	
X	X	X	X	Aircraft Mechanics I w/ Lab
	X	X	X	Aircraft Mechanics II w/ Lab
		X	X	Aircraft Mechanics III w/ Lab
			X	Aircraft Mechanics IV w/ Lab
	X	X	X	Air Transportation I w/ Lab
		X	X	Air Transportation II w/ Lab
			X	Air Transportation III w/ Lab
			X	Aviation Capstone

Aircraft Mechanics I with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$200	1.0 CTE or Elective

This one-year course introduces students to the operational and scientific nature of the aviation maintenance industry. Areas of emphasis include: safe work habits, correct use of tools and precision test instruments, aircraft service requirements, ground operation procedures, and calculating the cost associated with aircraft preventive maintenance. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society. The appropriate use of technology is an integral part of this course. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 1.0 CTE or Elective credits upon completion of this two semester course (0.5 credit each semester).

Aircraft Mechanics II with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Aircraft Mechanics I	\$200	2.0 CTE or Elective

This course is designed for students who have successfully completed Aviation Maintenance Technician I. Areas of emphasis include: physical mathematics, weight and balance, Federal Aviation Administration (FAA) regulations, common and special tools and measuring devices, fluid lines, hardware, aircraft servicing, and documentation. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society. The appropriate use of technology is an integral part of this course. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Aircraft Mechanics III with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Aircraft Mechanics II	\$200	2.0 CTE or Elective

This course provides intermediate aviation maintenance technician students with instruction in general aeronautics. It includes the study of physical mathematics, weight and balance, FAA regulations, common and special tools and measuring devices, fluid lines, hardware, aircraft servicing, and documentation (Part 65). The appropriate use of technology and industry-standard equipment is an integral part of this course. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Aircraft Mechanics IV with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Aircraft Mechanics III	\$200	2.0 CTE or Elective

This course provides advanced aviation maintenance technician students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Aircraft Maintenance Technician I and II. Areas of study include an introduction to aircraft systems. Discussions include a study of the principals and concepts of basic DC and AC electrical theory, magnetism, batteries, generators, motors, voltage regulators, circuit protection, and electrical component installations (FAR Part 65). The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education. The appropriate use of technology and industry-standard equipment is an integral part of this course. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Air Transportation I with Lab - Introduction to Flight

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	2.0 CTE or Elective

This course will provide the foundation for advanced exploration in the areas of flying, aerospace engineering, and unmanned aircraft systems. Students will learn about engineering practices, problem-solving, and the innovations and technological developments that have made today's aviation and aerospace industries possible. Students will examine the problem-solving practices and innovative leaps that transformed space exploration from the unimaginable to the common in a single generation. Students will also gain historical perspective, starting from the earliest flying machines and leading to the wide variety of modern aircraft and the integral role they play in making today's world work. Students will also begin to understand the various sectors of aviation and the elements that make up the aviation and aerospace ecosystem. They will discover how advances in aviation created a need for regulation and will learn about the promulgation of civil aviation oversight. Students will explore modern innovations and develop their own innovative ideas to address real-world challenges facing the aviation industry. They will be exposed to a variety of career options in aviation and aerospace and take an in-depth look at the opportunities available. Students who complete this course while enrolled in the partner University or Community college will receive corresponding college credit at that school, and be required to pay corresponding fees. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Air Transportation II with Lab – Unmanned Aerial Systems

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Air Transportation I	\$200	2.0 CTE or Elective

This course covers the history of Unmanned Aerial Systems (UAS), focusing on the recent developments of the small UAS and the future of this emerging technology in commercial applications. Topics include flight/ground safety, regulations, and preparation for FAA certification. Students will have the opportunity to test for their FAA Drone License, the Part 107 Remote Pilot Knowledge Test. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Air Transportation III with Lab– Private Pilot Ground School

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Air Transportation II	\$200	2.0 CTE or Elective

This course is foundational for manned aviation and will prepare students to take the Federal Aviation Administration's Private Pilot Knowledge Test. Topics include: pre-flight procedures, airspace, radio communications, aviation phraseology, regulations, airport operations, aviation safety, weather, cockpit management, and emergency procedures. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Aviation Capstone

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Completion of Two Years of Aviation Program Coursework	None	1.0 CTE or Elective

In this course, students will design a project using the fundamentals of project management, conduct research on their topic of interest, then produce a final written report, portfolio, or a presentation that summarizes and demonstrates student learning. The capstone project will relate to academic accomplishments and demonstrate mastery of the subject. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

The Academy of Business and Finance

Programs of Study

Students are required to take both the theoretical course and the lab course that correspond with their program of study.

Business Management:

This is a three year program that prepares students to make strong business decisions through the use of data and technology to help sales, finance, and general operations become more efficient. Many students will continue their studies at a college or university.

Finance:

This is a three year program that prepares students to manage the money-related decisions consumers, businesses, and governments make on a daily, weekly, and yearly basis.

Grade				Course Name
9	10	11	12	
	X	X	X	Business Management & Finance I
		X	X	Business Management & Finance II
			X	Business Management & Finance III
			X	Business/Finance Apprenticeship/Internship
			X	Business and Finance Capstone

Business Management & Finance I

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$75	1.0 CTE or Elective

This course introduces students to the world of business and sets a solid foundation for high school, college, and career. Students will be engaged in teamwork, presentations, computer-related activities, and current events while learning the following topics: today's economy, business ownership, getting and keeping a job, how to be a wise consumer, managing money, understanding banking and credit, and types of insurance. In addition, this course provides students with an overview of the principles of business finance. The course focuses on: economics, marketing, accounting procedures, and the global financial market. An integral component of the curriculum is the application of decision-making skills that enable students to become more responsible consumers, producers, or business entrepreneurs. Upon completion of this course, students may test for the Microsoft Office Specialist (MOS) – Associate for Office 365. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will receive 1 CTE or Elective credits upon completion of this two semester course (.5 credit each semester).

Business Management & Finance II

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Business Management & Finance I	\$75	1.0 CTE or Elective

This course, designed to provide a fundamental understanding of business management and will cover managing, marketing, financing, and communicating within a business environment. Skills taught will include communication, problem-solving, decision making, ethics, finance, leadership, and basic marketing principles. This course will also continue to assist students in developing proficient financial business skills and leadership abilities by explaining

effective decision-making skills and processes, expanding workplace-readiness skills and understanding the steps necessary to obtain employment, and broadening opportunities for personal and professional growth. Students will be introduced to concepts of accounting. Simulations and projects promoting teamwork, leadership, and workplace skills will offer further opportunities for application of knowledge and skills for students to become independent and lifelong learners. Upon completion of this course, students may test for the Microsoft Office Specialist (MOS) – Expert for Office 365. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will receive 1 CTE or Elective credits upon completion of this two semester course (.5 credit each semester).

Business Management & Finance III

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Business Management & Finance I, II	\$75	1.0 CTE or Elective

This course offers a higher level of continuing business support. Students will have built a foundation of management strategies and practices which will enable them to prosper in an ever-changing business environment. Students will have a strategic perspective of production, marketing, accounting, international business and human resources. In addition, this course studies the theoretical techniques of financial analysis, including financial statement analysis, cash budgeting, and pro forma analysis. It also covers business investment and financing decisions, including the concepts of present and net present value, capital budgeting analysis, investment analysis under uncertainty, the cost of capital, capital structure theory and policy and the interrelation of the firm's investment and financing decisions. Completion of the Business Management & Finance - Level III will lead to new opportunities and provide students with a solid foundation upon which to build a management career. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will receive 1 CTE or Elective credits upon completion of this two semester course (.5 credit each semester).

Business/Finance Apprenticeship/Internship

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Business/Finance II	None	1.0 CTE or Elective

In this course, students will be provided additional classroom lab time or on-the-job training for extended hands-on experiences. These real world, authentic activities reinforce the workplace skills necessary to master Business or Finance concepts. Internship students will experience on-the-job training in a career path. Requirements include three weeks of classroom instruction in job preparation and application and 120 hours of on the job field work. Artifacts include a portfolio, two employer evaluations, two instructor field evaluations, a final, written summary and reflection. Students must provide their own transportation to the internship site. Students will receive 1 CTE or Elective credits upon completion of this two semester course (.5 credit each semester).

Business and Finance Capstone

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Completion of Two Years of Business or Finance Program Coursework	None	1.0 CTE or Elective

In this course, students will design a project using the fundamentals of project management, conduct research on their topic of interest, then produce a final written report, portfolio, or a presentation that summarizes and demonstrates student learning. The capstone project will relate to academic accomplishments and demonstrate mastery of the subject. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

The Academy of Construction Technologies

Programs of Study

Students are required to take both the theoretical course and the lab course that correspond with their program of study.

Construction Technologies:

This is a three year program that prepares students to master skills in construction. Students learn carpentry, electrical, HVAC, and plumbing, as well as how to read blueprints, site development, and material testing.

Construction Management:

This is a three year program that prepares students to enter into construction management certification or advanced degree programs after graduation. Students may specialize in Construction Management in year three of the Construction Technologies program.

HVAC Technologies:

This is a two year program that will provide students with an introductory and advanced level instruction into the HVAC industry. Students will exit the HVAC program with a full industry certification to allow them to enter the HVAC workforce.

Grade				Course Name
9	10	11	12	
	X	X	X	Construction Technologies I w/ Lab
		X	X	Construction Technologies II w/ Lab
			X	Construction Management 101
			X	Construction Management 101 Lab
			X	Construction Technologies Apprenticeship/Internship
			X	Construction Technologies Capstone
		X	X	HVAC Technologies I
		X	X	HVAC Technologies II

Construction Technologies I with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$200	2.0 CTE or Elective

Construction Technologies I provides students with the opportunity to further their knowledge of job and workplace safety and to study, safety engineering, framing/structural design and fabrication, plumbing, masonry, and concrete. This class will expose students to the fundamentals of residential electric and HVAC systems. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Construction Technologies II with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Construction Technologies I	\$200	2.0 CTE or Elective

Construction Technologies II is an advanced course providing students with the opportunity to build on the knowledge gained during Construction Technologies I. Students will demonstrate their mastery of information through building various structures as assigned. Students will also practice skills learned in the hands-on lab portion

of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Construction Management 101

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Construction Technologies I and II	None	1.0 CTE or Elective

This course covers key fundamentals of project planning, contracting, and project controls, including the roles and responsibilities of each party. Students will learn the tools to manage a project's scope, quality, budget and schedule. Construction Management 101 is designed to teach the skills construction managers and construction management firms require for project success and to protect against the most common pitfalls that cause project shortcomings, defects, delays, cost overruns, and legal disputes.

Construction Management 101 Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Construction Technologies I and II	\$200	1.0 CTE or Elective

In this lab based course, students will engage in project planning, contracting, and project controls, including the roles and responsibilities of each party. Students will apply the tools to manage a project's scope, quality, budget and schedule. Construction Management 101 Lab is designed to practically apply the skills construction managers and construction management firms require for project success and to protect against the most common pitfalls that cause project shortcomings, defects, delays, cost overruns, and legal disputes.

Construction Technologies Apprenticeship/Internship

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Completion of Two Years of Construction Technology Program Coursework	None	1.0 CTE or Elective

In this course, students will be provided additional classroom lab time or on-the-job training for extended hands-on experiences. These real world, authentic activities reinforce the workplace skills necessary to master Business or Finance concepts. Internship students will experience on-the-job training in a career path. Requirements include three weeks of classroom instruction in job preparation and application and 120 hours of on the job field work. Artifacts include a portfolio, two employer evaluations, two instructor field evaluations, a final, written summary and reflection. Students must provide their own transportation to the internship site.

Construction Technologies Capstone

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Completion of Two Years of Construction Technologies Program Coursework	None	1.0 CTE or Elective

In this course, students will design a project using the fundamentals of project management, conduct research on their topic of interest, then produce a final written report, portfolio, or a presentation that summarizes and demonstrates student learning. The capstone project will relate to academic accomplishments and demonstrate mastery of the subject. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

HVAC Technologies I with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$200	1.0 CTE or Elective

HVAC Technologies I is a comprehensive introductory course designed to provide students with a foundational understanding of Heating, Ventilation, and Air Conditioning (HVAC) systems. The course covers essential areas of instruction to equip students with the knowledge and skills necessary for entry into the HVAC industry. This course combines theoretical knowledge with practical skills, preparing students for a successful career in HVAC technologies. Topics to include: introduction to HVAC, trade mathematics, basic electricity, introduction to heating, cooling, and air distribution systems, basic copper and plastic piping, soldering and brazing, and basic carbon steel piping practices. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 1.0 CTE or Elective credits upon completion of this two semester course (0.5 credit each semester).

HVAC Technologies II with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
HVAC Technologies I	\$200	1.0 CTE or Elective

HVAC Technologies II is an advanced course as part of a two-year program designed to elevate students' expertise in Heating, Ventilation, and Air Conditioning (HVAC) systems. Building upon the foundation laid in HVAC Technologies I, this program delves deeper into specialized areas and advanced technologies. Topics to include: introduction to hydronic systems, air quality equipment, fiberglass and fabric duct systems, sheet metal duct systems, chimneys, vents, and flues, basic maintenance, heat pumps, metering devices, leak detection, evacuation, recovery, and charging, refrigerant and oils, compressors, alternative current. Upon successful completion of the program, students will be awarded a full industry-recognized certification, positioning them for employment opportunities in the dynamic HVAC industry. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 1.0 CTE or Elective credits upon completion of this two semester course (0.5 credit each semester).

The Academy of Cosmetology

Programs of Study

Students are required to take both the theoretical course and the lab course that correspond with their program of study.

As per ARS 32-561 and AAC R4-10-204, to enroll in the Cosmetology or Aesthetics program, a student must have completed 10 high school credits, two of which must be in English.

Cosmetology (hair):

This is a two- year program that prepares students to earn an Arizona cosmetology license. This program requires 1600 hours of instruction and hands-on lab work.

Aesthetics (skin, nails, eyelash extensions):

This is a two-year program that prepares students to earn the AZ Board of Cosmetology license in aesthetics. This program requires 600 hours of instruction and hands-on lab work for the aesthetics program and 600 hours of instruction and hands-on lab work for nails.

Grade				Course Name
9	10	11	12	
		X	X	Cosmetology I
		X	X	Cosmetology II
		X	X	Aesthetics I
		X	X	Aesthetics II
			X	Aesthetics III
			X	Cosmetology/Aesthetics Capstone

Cosmetology I

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$200	4.0 CTE or Elective

In this course students will be introduced to the following cosmetology topics: sterilization and sanitation procedures, hair care, nail care, and skin care. This course will include both classroom and lab time. Students in this course are working toward qualifying to be able to take the Arizona Cosmetology License.

Cosmetology II

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Cosmetology I	\$200	4.0 CTE or Elective

In this course students will review academic and practical knowledge related to cosmetology. This course is designed to provide advanced skill set training as well as employment preparation for a cosmetology career. Topics will include: advanced training in sterilization and sanitation processes, hair care, cut, trim, and style scalp, facial, and body hair; apply cosmetic preparations; perform manicures and pedicures; massage the head and extremities; and prepare for practice as licensed cosmetologists in specialized or full service salons. This course will include both classroom and lab time. This program meets the requirements to be able to test for a cosmetology license in Arizona upon successful completion of the course sequence and passing the state examinations. Students in this course are working toward qualifying to be able to take the Arizona Cosmetology License.

Aesthetics I

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$200	4.0 CTE or Elective

In this course students will begin with the study of skin care. Students will be instructed on a variety of skin care services. The curriculum will include giving facials, skin analysis, pore cleansing, skin care regimens, waxing, eyebrow shaping, lash tinting and aromatherapy techniques. This course will include both classroom and lab time. Students in this course are working toward qualifying to be able to take the Arizona Aesthetician License.

Aesthetics II

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Aesthetics I	\$200	4.0 CTE or Elective

This course prepares students to understand and apply techniques needed to successfully complete competencies in accordance with the Arizona State Board of Cosmetology as a nail technician. Students will learn proper steps in safety, sanitation, shaping of the fingernails and toenails with various nail files, removing unwanted cuticle skin, calluses, product application and use, message, nail sculpture, nail enhancements, design art, customer service skills, and laws and regulations. Students will continue to study skin care, facials, and eyelash extensions. This course will include both classroom and lab time. Students in this course are working toward qualifying to be able to take the Arizona Aesthetician License.

Aesthetics III

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Aesthetics I, II	None	1.0 CTE or Elective

Students in this course are working towards qualifying to be able to take the Arizona Aesthetician License in skin care and nails. Students will apply skills in the customer facing onsite salon. Students will understand marketing principles in the beauty industry including advertising and social media. Students may opt to learn the eyelash extension industry: knowledge on full sets, fills, and removal, In depth product knowledge, how to choose the right eye design for clients, care, safety, and sanitation for eyelash extensions, and the shedding cycle.

Cosmetology/Aesthetics Capstone

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Completion of Two Years of Cosmetology or Aesthetician Program Coursework	None	1.0 CTE or Elective

In this course, students will design a project using the fundamentals of project management, conduct research on their topic of interest, then produce a final written report, portfolio, or a presentation that summarizes and demonstrates student learning. The capstone project will relate to academic accomplishments and demonstrate mastery of the subject. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

The Academy of Education

Programs of Study

Students are required to take both the theoretical course and the lab course that correspond with their program of study.

Early Childhood Education:

This is a three year program that prepares students to enter a college or university to teach preschool children.

Education Professions:

This is a three year program that prepares students to enter a college or university for a career in education as a K-12 teacher.

Grade				Course Name
9	10	11	12	
	X	X	X	Education Professions I w/ Lab
		X	X	Education Professions II w/ Lab
			X	Education Professions III: Paraprofessional w/ Lab
			X	Education Professions III: Early Childhood w/ Lab
			X	Education Capstone

Education Professions I with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$75	2.0 CTE or Elective

The first year of Education Professions prepares students for a wide range of careers in education including teaching, coaching, counseling, and administration. This course focuses on professional expectations in the field of education, the history and structure of education, theoretical and philosophical approaches to learning, inclusive practices, home-school partnerships, classroom management, and education technology. Students will explore careers in education, the impacts of educators, and the professional, legal, and ethical practices in the education profession. Students in this program will be working towards an Instructional Paraprofessional or Child Development Associates Certification. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Education Professions II with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Education Professions I	\$75	2.0 CTE or Elective

The second year of Education Professions prepares students for a career in K-12 education by focusing on child development, roles of paraprofessionals, exceptional learners, curriculum, and assessment and observation. This course examines the development of children from early elementary through adolescence. Students will explore the role and legal responsibilities of teachers and paraprofessionals and examine instruction and practices based on 504s, gifted education, and individualized education plans. This course will prepare students for developing and utilizing assessments that align with classroom instruction, state standards, and curriculum. Students in this program will be working towards an Instructional Paraprofessional or Child Development Associates Certification.

Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Education Professions III: Paraprofessional with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Education Professions I, II, Parent Permission, and 16 years of age	\$75	2.0 CTE or Elective

This course will focus on the application of skills attained in Education Professions I & II and participation in structured work experience through an internship with community education programs and district schools (Students may need a fingerprint clearance card). Students will specialize in one age group of students to develop lesson plans, classroom management techniques, and a professional work portfolio. An appropriate internship placement will be provided by the Education Program Coordinator. All students are required to comply with all industry and placement-specific regulations. Students will be required to meet a minimum of internship hours aligned with their certification. Each student must provide their own transportation to and from the internship placement site. Students who are classified as seniors (12th grade) and at least 16 years of age are eligible to participate. Students in this program will be working towards an Instructional Paraprofessional Certification. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Education Professions III: Early Childhood with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Education Professions I, II, Parent Permission, and 16 years of age	\$75	2.0 CTE or Elective

This course will focus on the application of skills attained in Education Professions I & II and participation in structured work experience through an internship with community education programs and district schools (Students may need a fingerprint clearance card). Students will specialize in one age group of students to develop lesson plans, classroom management techniques, and a professional work portfolio. An appropriate internship placement will be provided by the Education Program Coordinator. All students are required to comply with all industry and placement-specific regulations. Students will be required to meet a minimum of internship hours aligned with their certification. Each student must provide their own transportation to and from the internship placement site. Students who are classified as seniors (12th grade) and at least 16 years of age are eligible to participate. Students in this program will be working towards a Child Development Associates Certification. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Education Capstone

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Completion of Two Years of Early Education or Education Professions Program Coursework	None	1.0 CTE or Elective

In this course, students will design a project using the fundamentals of project management, conduct research on their topic of interest, then produce a final written report, portfolio, or a presentation that summarizes and demonstrates student learning. The capstone project will relate to academic accomplishments and demonstrate mastery of the subject. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

The Academy of First Responders

Programs of Study

Students are required to take both the theoretical course and the lab course that correspond with their program of study.

Emergency Medical Technician:

This is a three year program that prepares students to earn an EMS certification for entry level work as an Emergency Medical Technician.

Law & Public Safety:

This is a three year program that prepares students to earn certifications that prepare them for careers that serve and protect the public

Grade				Course Name
9	10	11	12	
	X	X	X	Emergency Medical Technician I w/ Lab
		X	X	Emergency Medical Technician II w/ Lab
		X	X	Emergency Medical Technician III w/ Lab
	X	X	X	Law and Public Safety I w/ Lab
		X	X	Law and Public Safety II w/ Lab
			X	Law and Public Safety III w/ Lab
X	X	X	X	National Defense Corps of Cadets I
X	X	X	X	National Defense Corps of Cadets II
			X	First Responder Capstone

Emergency Medical Technician I with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$150	1.0 CTE or Elective

In this course, students will be introduced to the health sciences through a rigorous study of Anatomy and Physiology. It will focus on the human skeleton, cells, tissues, and organs of the body, including muscles, bone, nerves, etc. Students will learn how all of the systems of the body work together. Participation in this class will prepare students for an Emergency Medical Responder (EMR) Licensure in their senior year. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 1.0 CTE or Elective credit upon completion of this two semester course (0.5 credit each semester).

Emergency Medical Technician II with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Emergency Medical Technician I	\$150	1.0 CTE or Elective

In this course, students will be introduced to the health sciences through a rigorous study of Pathophysiology. It will focus on the human pathological processes as they relate to certain diseases and disorders in the body. Students completing this course are eligible to apply independently for the National Registry of Emergency Medical Technicians Exam. Upon completion of the course, students who are 18 years of age may take the National Registry Exam to receive EMT certification. Emphasis includes patient rights, HIPPA laws, human body systems, medical terminology, pharmacology, trauma emergencies. The appropriate use of technology is an integral part of this

course. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 1.0 CTE or Elective credit upon completion of this two semester course (0.5 credit each semester).

Emergency Medical Technician III with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Emergency Medical Technician I, II	None	1.0 CTE or Elective

In this course students will 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, stabilizing and immobilization of victims in emergency situations. Students completing this course are eligible to apply independently for the National Registry of Emergency Medical Technicians Exam. Upon completion of the course, students who are 18 years of age may take the National Registry Exam to receive EMT certification. Emphasis includes patient rights, HIPPA laws, human body systems, medical terminology, pharmacology, trauma emergencies. The appropriate use of technology is an integral part of this course. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 1.0 CTE or Elective credit upon completion of this two semester course (0.5 credit each semester).

Law and Public Safety I with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$100	2.0 CTE or Elective

This is the first part of a series of 6 semester classes under the Arizona Department of Education Career and Technical Education Pathway Program for Law and Public Safety. Students will develop a basic understanding of concepts, processes, and institutions of the criminal justice system; skills and knowledge in preparing students for successful entry into the public safety profession at the federal, state, county or local level. This course is designed to encompass core disciplines integrated throughout the curriculum through labs, report writing, physical education, mathematics, etc. Students will experience how laws work to meet human problems and how interpretations of laws adjust within an evolving social order. Students will also be provided with an academic base to enable them to pursue further education upon completion of the program and linked to recruiters in various fields, i.e. Law enforcement, corrections, public and private security and military. Students will be given a Technical Skills Assessment at the completion provided through the ADE CTE division. Students who complete this course while enrolled in the partner University/Community college will receive corresponding college credit at that school, and be required to pay corresponding fees. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Law and Public Safety II with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Law and Public Safety I	\$100	2.0 CTE or Elective

This is the second part of a series of 6 semester classes under the Arizona Department of Education Career and Technical Education Pathway Program for Law and Public Safety. Students will build on the understanding of concepts, processes, and institutions of the criminal justice system; skills and knowledge in preparing students for successful entry into the public safety profession at the federal, state, county or local level. This course is designed to encompass core disciplines integrated throughout the curriculum through labs, report writing, physical education, mathematics, etc. Students will experience how laws work to meet human problems and how interpretations of laws adjust within an evolving social order. Students will also be provided with an academic base

to enable them to pursue further education upon completion of the program and linked to recruiters in various fields, i.e. Law enforcement, corrections, public and private security and military. Students will be given a Technical Skills Assessment at the completion provided through the ADE CTE division. Students who complete this course while enrolled in the partner University/Community college will receive corresponding college credit at that school, and be required to pay corresponding fees. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Law and Public Safety III with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Law and Public Safety I, II	\$100	2.0 CTE or Elective

This is the third part of a series of 6 semester classes under the Arizona Department of Education Career and Technical Education Pathway Program for Law and Public Safety. Students will build on the understanding of concepts, processes, and institutions of the criminal justice system; skills and knowledge in preparing students for successful entry into the public safety profession if they choose at the federal, state, county or local level. These courses are designed to encompass core disciplines integrated throughout the curriculum through labs, report writing, physical education, mathematics, etc. Students will experience how laws work to meet human problems and how interpretations of laws adjust within an evolving social order. Students will also be provided with an academic base to enable them to pursue further education upon completion of the program and linked to recruiters in various fields, i.e. Law enforcement, corrections, public and private security and military. Students will be given a Technical Skills Assessment at the completion provided through the ADE CTE division. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

National Defense Corps of Cadets I

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Elective

In this course, students will study ethics, citizenship, communications, leadership, life skills, character education, and service learning to prepare them for their future as adults. The curriculum is supplied by the U.S. Army as well as all forms and regulations which are required to complete the program. Students will receive 1.0 Elective credit upon completion of this two-semester course (0.5 credit each semester).

National Defense Corps of Cadets II

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	None	1.0 Elective

In this course, students will expand upon National Defense Corps of Cadets I. Students will study ethics, citizenship, communications, leadership, life skills, character education, and service learning to prepare them for their future as adults. The curriculum is supplied by the U.S. Army as well as all forms and regulations which are required to complete the program. Students will receive 1.0 Elective credit upon completion of this two-semester course (0.5 credit each semester).

First Responder Capstone

Prerequisites or Requirements	Fees	Credit
Completion of Two Years of EMS or Law and Public Safety Program Coursework	None	1.0 CTE or Elective

In this course, students will design a project using the fundamentals of project management, conduct research on their topic of interest, then produce a final written report, portfolio, or a presentation that summarizes and demonstrates student learning. The capstone project will relate to academic accomplishments and demonstrate mastery of the subject. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

The Academy of Health Services

Programs of Study

Students are required to take both the theoretical course and the lab course that correspond with their program of study.

Dental Assisting:

This is a one year program that prepares students to work in the Dental Assisting field. Students may specialize in Dental Assisting in year two or year three of the Health Services program.

Grade				Course Name
9	10	11	12	
		X	X	Licensed Nurse Assistant I w/ Lab
			X	Licensed Nurse Assistant II w/ Lab
		X	X	Licensed Nurse Assistant III w/ Lab
		X	X	Dental Assisting I w/ Lab
			X	Dental Assisting II w/ Lab
			X	Dental Assisting III w/ Lab
	X	X	X	Emergency Medical Technician I w/ Lab
		X	X	Emergency Medical Technician II w/ Lab
		X	X	Emergency Medical Technician III w/ Lab
			X	Health Services Capstone

Licensed Nurse Assistant I with Lab (LNA I w/Lab)

Prerequisites or Requirements	Fees	Credit
None	\$150	1.0 CTE or Elective

In this course, students will be introduced to the healthcare community, and will be taught basic nursing skills to provide patient care. The curriculum includes building foundational skills in: medical terminology, communication, safe nursing practices, body mechanics, activities of daily living skills, and infection control. Students will learn entry level health assessment skills such as taking vitals, nutrition and fluid balance and an understanding of how it applies to nursing care. In this course, students will begin to examine the legal and ethical aspects involved in nursing. Strong understanding of safety and professional standards will be taught. Students will also practice skills learned in the hands-on lab portion of the course. Students will also practice skills learned in the hands-on lab portion of the course. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will receive 1.0 CTE or Elective credit upon completion of this two semester course (0.5 credit each semester).

Licensed Nurse Assistant II with Lab (LNA II w/Lab)

Prerequisites or Requirements	Fees	Credit
Licensed Nurse Assistant I	\$150	1.0 CTE or Elective

In this course, students will receive a deeper understanding of the health care community, and will be taught higher level nurse assistant skills to provide direct patient care. The curriculum includes building upon the foundation skills learned in Licensed Nursing Assistant I: medical terminology, therapeutic communication, safe nursing practices, body mechanics, activities of daily living skills, and infection control. Students will continue to

build upon the knowledge gained in entry level health assessment skills such as taking vitals, nutrition and fluid balance and an understanding of how it applies to nursing care. In this year long course students will continue to examine the legal and ethical aspects involved in nursing. Strong understanding of safety and professional standards will be taught. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 1.0 CTE or Elective credits upon completion of this two semester course (0.5 credit each semester).

Licensed Nurse Assistant III with Lab (LNA III w/Lab)

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Licensed Nurse Assistant I, II	\$150	1.0 CTE or Elective

In this course, students will receive an advanced understanding of the health care community, and will continue to build upon the learned nurse assistant skills to provide direct patient care. The curriculum includes building upon the skills learned in Licensed Nursing Assistant I and II: medical terminology, therapeutic communication, safe nursing practices, body mechanics, activities of daily living skills, and infection control. Students will continue to build upon the knowledge gained in entry level health assessment skills such as taking vitals, nutrition and fluid balance and an understanding of how it applies to nursing care. In this year long course students will continue to examine the legal and ethical aspects involved in nursing. Strong understanding of safety and professional standards will be taught. Students will participate in off site clinical hours with partnering care facilities. Students will also practice skills learned in the hands-on lab portion of the course. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will receive 1.0 CTE or Elective credits upon completion of this two semester course (0.5 credit each semester).

Dental Assisting I with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$150	2.0 CTE or Elective

In this course, students will be introduced to the health sciences through a rigorous study of Anatomy and Physiology. It will focus on the human skeleton, cells, tissues, and organs of the body, including muscles, bone, nerves, etc. Students will learn how all of the systems of the body work together. They will learn identification, maintenance, and proper use of dental instruments, equipment and materials. In addition, students will have hands-on experience in dental recordkeeping, scheduling and treatment documentation within dental practice management software. They will practice general office duties and patient care. This course will conclude with a comprehensive study of dental radiology in preparation for the Dental Assisting National Board (DANB) Radiation Health and Safety (RHS) exam. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Dental Assisting II with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Dental Assisting I	\$150	2.0 CTE or Elective

In this course, students will learn how to: identify structures and functions of oral, head and neck anatomy and related dental pathologies; instruct patients on principles and techniques of dental health; implement infection control; recognize and respond to emergency situations. They will learn identification, maintenance, and proper use of dental instruments, equipment and materials. In addition, students will have hands-on experience in dental

recordkeeping, scheduling and treatment documentation within dental practice management software. They will practice general office duties and patient care. This course will conclude with a comprehensive study of dental radiology in preparation for the Dental Assisting National Board (DANB) Radiation Health and Safety (RHS) exam. Students completing this program will be confident in seeking an entry-level dental assistant position as they start their professional dental career. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Dental Assisting III with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Dental Assisting I, II	None	2.0 CTE or Elective

This course will challenge students to take the knowledge and skills gained in DA II into simulated dental office experiences in the ALA Dental Clinic Classroom. Students will learn the tactile and kinetic skills necessary to be a competent dental assistant while sitting chairside with the instructor. More importantly, they will develop decision-making and critical-thinking muscles through these simulated procedures. Students will explore tools commonly used in dental offices, examine the legal and ethical responsibilities of dental professionals, and become familiar with current services and industry trends. Students completing this program will be confident in seeking an entry-level dental assistant position as they start their professional dental career. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Emergency Medical Technician I with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$150	2.0 CTE or Elective

In this course, students will be introduced to the health sciences through a rigorous study of Anatomy and Physiology. It will focus on the human skeleton, cells, tissues, and organs of the body, including muscles, bone, nerves, etc. Students will learn how all of the systems of the body work together. Participation in this class will prepare students for an Emergency Medical Responder (EMR) Licensure in their senior year. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Emergency Medical Technician II with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Emergency Medical Technician I	\$150	2.0 CTE or Elective

In this course, students will be introduced to the health sciences through a rigorous study of Pathophysiology. It will focus on the human pathological processes as they relate to certain diseases and disorders in the body. Students completing this course are eligible to apply independently for the National Registry of Emergency Medical Technicians Exam. Upon completion of the course, students who are 18 years of age may take the National Registry Exam to receive EMT certification. Emphasis includes patient rights, HIPPA laws, human body systems, medical terminology, pharmacology, trauma emergencies. The appropriate use of technology is an integral part of this course. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Emergency Medical Technician III with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Emergency Medical Technician I, II	\$150	2.0 CTE or Elective

In this course students will 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, stabilizing and immobilization of victims in emergency situations. Students completing this course are eligible to apply independently for the National Registry of Emergency Medical Technicians Exam. Upon completion of the course, students who are 18 years of age may take the National Registry Exam to receive EMT certification. Emphasis includes patient rights, HIPPA laws, human body systems, medical terminology, pharmacology, trauma emergencies. The appropriate use of technology is an integral part of this course. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Health Services Capstone

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Completion of Two Years of Health Services Program Coursework	None	1.0 CTE or Elective

In this course, students will design a project using the fundamentals of project management, conduct research on their topic of interest, then produce a final written report, portfolio, or a presentation that summarizes and demonstrates student learning. The capstone project will relate to academic accomplishments and demonstrate mastery of the subject. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

The Academy of Hospitality

Programs of Study

Students are required to take both the theoretical course and the lab course that correspond with their program of study.

Hospitality Management:

This is a three year program that prepares students to enter the hospitality industry. Most students interested in a career in hospitality will continue their education at a college or university.

Culinary Arts:

This is a three year program that prepares students to enter the food industry. Most students interested in a career in the culinary arts will continue their education at a college or university.

Grade				Course Name
9	10	11	12	
	X	X	X	Hospitality Management I w/ Lab
		X	X	Hospitality Management II w/ Lab
			X	Hospitality Management III w/ Lab
	X	X	X	Culinary Arts I w/ Lab
		X	X	Culinary Arts II w/ Lab
			X	Culinary Arts III w/ Lab
	X	X	X	Baking and Pastry I (Culinary) w/ Lab
		X	X	Baking and Pastry II (Culinary) w/ Lab
			X	Baking and Pastry III (Culinary) w/ Lab
			X	Hospitality Apprenticeship/Internship
			X	Hospitality Capstone

Hospitality Management I with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$100	2.0 CTE or Elective

In this course students will learn the principles of operations in the travel and tourism industries, hotel and lodging facilities, food services, recreation, and hospitality planning and business operations. Emphasis is placed on critical thinking, practical problem solving and entrepreneurship opportunities within the field of hospitality. Core academic application of math, science and language arts are emphasized as appropriate in the hospitality. Students In this course are working towards qualifying to be able to take the ServSafe Food Protection Manager. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Hospitality Management II with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Hospitality Management I	\$100	2.0 CTE or Elective

In this course students will learn the fundamental overview of hotel, restaurant, and tourism segments of the hospitality industry. Provides an overview of the operational sectors of the industry and reviews management components and skills. Contains career components to help students make informed career decisions. Students in

this course are qualified to take the ServSafe Food Protection Manager. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Hospitality Management III with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Hospitality Management I, II	\$100	2.0 CTE or Elective

In this course students will be provided additional classroom concepts and experiences related to hospitality management. These real-world, authentic activities reinforce workplace skills necessary to master the culinary arts career and technical education program. Students will participate in authentic learning experiences in which they will provide a service to an organization or business. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Culinary Arts I with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$200	2.0 CTE or Elective

In this course students will receive an introduction to health and safety standards for food preparation including government regulation of food and nutrition. Students learn the theoretical knowledge of food preparation and presentation techniques in commercial food service operations. Students will be required to obtain a current Maricopa Food Service Worker/Food Handler's card. Students will be required to comply with industry-specific personal presentation and dress code. Students in this course are working toward qualifying to be able to take the ServSafe Food Protection Manager. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Culinary Arts II with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Culinary Arts I	\$200	2.0 CTE or Elective

In this course students will expand on professional skills used in the food-service industry. In-depth culinary skills taught include Garde Manger, Saucier, front and back-of-the-house operations, cost v. profit, as well as restaurant and kitchen management in the fine dining environment. Students in this course are qualified to be able to take the ServSafe Food Protection Manager. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Culinary Arts III with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Culinary Arts I, II	None	2.0 CTE or Elective

In this course students will be provided additional classroom and lab experiences related to culinary operations. These real-world, authentic activities reinforce workplace skills necessary to master the culinary arts career and technical education program. Students will participate in authentic learning experiences in which they will provide a service to an organization or business. Students will also practice skills learned in the hands-on lab portion of the

course. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Baking and Pastry I (Culinary) with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$200	2.0 CTE or Elective

In this course students will receive an introduction to health and safety standards for food preparation including government regulation of food and nutrition. Students learn the theoretical knowledge of food preparation and presentation techniques in commercial food service operations. This course will set the foundation of the components of various bread, cookie and pastry preparation techniques including quick breads, yeast breads, enriched and laminated doughs, cookie mixing methods, pies, tarts, syrups, icings, sauces, custards, creams, and cakes. Students will be required to obtain a current Maricopa Food Service Worker/Food Handler's card. Students will be required to comply with industry-specific personal presentation and dress code. Students in this course are working toward qualifying to be able to take the ServSafe Food Protection Manager. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Baking and Pastry II (Culinary) with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Baking and Pastry I	\$200	2.0 CTE or Elective

In this course students will expand on professional skills used in the food-service industry. In-depth culinary skills taught include Garde Manger, Saucier, front and back-of-the-house operations, cost v. profit, as well as restaurant and kitchen management in the fine dining environment. In addition, students will take a more in-depth look at Baking and Pastry used in the bakeshop. Students will be preparing cakes and frosting; decorate cakes; creams; custards; sauces; fruit desserts; and other advanced products. Students in this course are qualified to be able to take the ServSafe Food Protection Manager. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Baking and Pastry III (Culinary) with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Baking and Pastry I, II	None	2.0 CTE or Elective

In this course students will be provided additional classroom and lab experiences related to culinary operations. These real-world, authentic activities reinforce workplace skills necessary to master the culinary arts career and technical education program. Students will participate in real-world activities to reinforce workplace skills necessary to master the culinary arts career and technical education program by participating in local internships gaining valuable experience. Students will also practice skills learned in the hands-on lab portion of the course. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Hospitality Apprenticeship/Internship

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Completion of Two Years of Culinary or Hospitality Program Coursework	None	1.0 CTE or Elective

In this course, students will be provided additional classroom lab time or on-the-job training for extended hands-on experiences. These real world, authentic activities reinforce the workplace skills necessary to master Hospitality or Culinary concepts. Internship students will experience on-the-job training in a career path. Requirements include three weeks of classroom instruction in job preparation and application and 120 hours of on the job field work. Artifacts include a portfolio, two employer evaluations, two instructor field evaluations, a final, written summary and reflection. Students must provide their own transportation to the internship site.

Hospitality Capstone

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Completion of Two Years of Hospitality Program Coursework	None	1.0 CTE or Elective

In this course, students will design a project using the fundamentals of project management, conduct research on their topic of interest, then produce a final written report, portfolio, or a presentation that summarizes and demonstrates student learning. The capstone project will relate to academic accomplishments and demonstrate mastery of the subject. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

The Academy of Technology

Programs of Study

Students are required to take both the theoretical course and the lab course that correspond with their program of study.

IT & Network Security:

This is a three year program that prepares students for various careers in the technology industry. Students get hands-on experience in computer repair, networking, and cybersecurity.

Software and App Design:

This is a three year program that introduces students to the concepts and ideas of computer science. Students will learn JavaScript, Python, and Java through the course of the program as they build a program portfolio and apply hands-on learning through labs and projects.

Gaming Technologies:

This pathway combines hands-on skills with knowledge of game design and programming along with communications and media streaming for a comprehensive exploration of both disciplines within the gaming world.

Grade				Course Name
9	10	11	12	
	X	X	X	IT & Network Security I w/ Lab
		X	X	IT & Network Security II w/ Lab
			X	IT & Network Security III w/ Lab
X	X	X	X	Media Streaming and Mass Communication I
X	X	X	X	Media Streaming and Mass Communication II
X	X	X	X	Game Design I
X	X	X	X	Game Design II
	X	X	X	Software and App Design I w/ Lab
		X	X	Software and App Design II w/ Lab
			X	Software and App Design III w/ Lab
			X	Technology Apprenticeship/Internship
X	X	X	X	DE Technology Essentials
			X	Technology Capstone

IT & Network Security I with Lab

Prerequisites or Requirements	Fees	Credit
None	\$100	2.0 CTE or Elective

In this course, students will learn how information technology systems operate. This course introduces principles of computers, basic concepts of software development and computer maintenance with an emphasis on network security technologies. Students will also acquire an understanding of the IT industry, computer mathematics, and the evolution of the computer. Students in this program will be working towards CompTIA certification in: A+, IT

Fundamentals, Network+, Security+. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

IT & Network Security II with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Network Security I	\$100	2.0 CTE or Elective

This course builds on technology knowledge and skills to install, configure and troubleshoot basic networking hardware, protocols, and services skills introduced in IT and Network Security I. In addition to demonstrating the basics of network security, students will apply the skills necessary to competently perform in the industry, as well as pass the necessary exams to obtain certification. Qualified students, at the completion of this program will be able to earn CompTIA certification in: A+, IT Fundamentals, Network+, Security+. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

IT & Network Security III with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Network Security I, II	\$100	2.0 CTE or Elective

This course builds on technology knowledge and skills to install, configure and troubleshoot basic networking hardware, protocols, and services skills introduced in IT and Network Security II. In addition to demonstrating the basics of network security, students will apply the skills necessary to competently perform in the industry, as well as pass the necessary exams to obtain certification. Qualified students, at the completion of this program will be able to earn CompTIA certification in: A+, IT Fundamentals, Network+, Security+. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Media Streaming and Mass Communication I

<i>Prerequisites</i>	<i>Fees</i>	<i>Credit</i>
None	\$100	1.0 CTE or Elective

In this year long course students will gain foundational knowledge of both existing and emerging digital communication technologies, the history of mass communication, and a blend of content creation with digital citizenship at its heart. Students will become familiar with audiovisual equipment, online mass media platforms, graphic design software, and audiovisual production applications while preparing, planning, and creating both synchronous and asynchronous content. The course focuses will include scheduled content creation, commentary, and both single and serial formats for various applications. Students will create basic media calendars, scripts, creative plans, and personal value statements for an intended audience or field.

Media Streaming and Mass Communication II

<i>Prerequisites</i>	<i>Fees</i>	<i>Credit</i>
CTE MSMC I/Teacher Approval	\$100	1.0 CTE or Elective

In the second year of MSMC students will deepen their production expertise and begin developing subject matter expertise for a chosen field. Students will develop a deeper understanding of ethics and digital citizenship in the mass media industry and how to apply these concepts in their chosen field. Students will learn more about the intersectionality of marketing, public affairs, audience interaction, and interpersonal communication relating to broadcast streaming in both synchronous and asynchronous situations, and in differing communities in the digital age. Students will develop more comprehensive media plans, scripts, and guides for their content and culminate the year with a capstone project that displays their growth in their chosen field of expertise.

Game Design I

<i>Prerequisites</i>	<i>Fees</i>	<i>Credit</i>
None	\$100	1.0 CTE or Elective

The CTE Game Design I class builds the foundation of programming skills through the development of 2-D and 3-D original games. Students are introduced to C# programming and game development with Unity 3D while emphasizing object-oriented programming, problem-solving, and algorithm development. Students will explore the video game industry, game theory, storyboarding, sprite animation, game physics, and game analysis as they apply to video game development and mobile devices. Students will utilize hands-on experience to apply knowledge, concepts, and skills of game design and development. *Students can take CTE Game Design I and II instead of Software and App Design I and II lab.

Game Design II

<i>Prerequisites</i>	<i>Fees</i>	<i>Credit</i>
CTE Game Design I	\$100	1.0 CTE or Elective

The CTE Game Design II will focus on the advanced topics and application of programming skills through the development of 2-D and 3-D original games while building upon the skills from Game Design I. Students will explore advanced applications of C# programming and game development with Unity 3D while emphasizing object-oriented programming, problem-solving, and algorithm development. Students will expand their understanding of the video game industry, game theory, storyboarding, sprite animation, game physics, and game analysis as they apply to video game development and mobile devices. Students will utilize hands-on experience to apply knowledge, concepts, and skills of game design and development. *Students may take CTE Game Design I and II instead of Software and App Design I and II lab.

Software and App Design I with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	\$100	2.0 CTE or Elective

This course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. Students will use a variety of programming languages to solve problems using suitable examples from business and other disciplines. The course

requires no previous background in programming. The Software and App Design program will prepare students for industry certification. This course is designed to meet the requirements of the College Board AP Computer Science Principles Course. Students who complete the course while enrolled in the partner community college will receive corresponding college credit at that school. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Software and App Design II with Lab

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Software and App Design I	\$100	2.0 CTE or Elective

This course builds on programming concepts, problem solving, and program design skills introduced in Software and App Design I. The Python programming language is featured and control structures, arrays, searching and sorting methods, parameters, and objects will be studied through a variety of activities and assessments. The Software and App Design program will prepare students for industry certification. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Software and App Design III

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Software and App Design I, II	None	2.0 CTE or Elective

This course builds on programming concepts, problem solving, and program design skills. The Java programming language is featured and control structures, arrays, searching and sorting methods, parameters, and objects will be studied through a variety of activities and assessments. The Software and App Design program will prepare students for industry certification. This will also count towards the third year Automation & Robotics CTE Credit. Students who successfully complete the course while enrolled in a partner community college will also receive corresponding college credit. Students will also practice skills learned in the hands-on lab portion of the course. Students will receive 2.0 CTE or Elective credits upon completion of this two semester course (1 credit each semester).

Technology Apprenticeship/Internship

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Completion of Two Years of Network Security or Software and App Design Program Coursework	None	1.0 CTE or Elective

In this course, students will be provided additional classroom lab time or on-the-job training for extended hands-on experiences. These real world, authentic activities reinforce the workplace skills necessary to master Network Security or Software and App Design concepts. Internship students will experience on-the-job training in a career path. Requirements include three weeks of classroom instruction in job preparation and application and 120 hours of on the job field work. Artifacts include a portfolio, two employer evaluations, two instructor field evaluations, a final, written summary and reflection. Students must provide their own transportation to the internship site.

DE Technology Essentials

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
None	College Tuition as applicable	0.5 Elective Credit

Overview of computer technology, concepts, terminology, and the role of computers in business and society. Discussion of social and ethical issues related to computers. Use of word processing, spreadsheet, database, and presentation software. Includes uses of application software and the Internet for efficient and effective problem solving. Exploration of relevant emerging technologies. Students who complete this course while enrolled in the partner Community college will receive corresponding college credit at that school, and be required to pay corresponding fees. Students who complete the course while enrolled in the partner community college will receive corresponding college credit at that school. Students will receive 0.5 Elective credit upon completion of this one-semester course.

Technology Capstone

<i>Prerequisites or Requirements</i>	<i>Fees</i>	<i>Credit</i>
Completion of Two Years of Technology Program Coursework	None	1.0 CTE or Elective

In this course, students will design a project using the fundamentals of project management, conduct research on their topic of interest, then produce a final written report, portfolio, or a presentation that summarizes and demonstrates student learning. The capstone project will relate to academic accomplishments and demonstrate mastery of the subject. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Appendix A--STEM Diploma Approved Courses

The following courses may be substituted towards the 5th math credit and the 4th and 5th science credit. Please note, all students MUST complete 4 math credits and 3 science credits from the appropriate departments in order to meet graduation requirements. Check with Student Services for the most updated program list.

Academic Course Equivalency	ALA CTE Courses
5th year High School Math	1.0 Automotive Technologies 1.0 Business Management (cannot count as math) 1.0 Construction Technologies 1.0 Software and App Design
	Air Transportation Licensed Nurse Assistant Dental Assisting Emergency Medical Technician IT & Network Security Software and App Design DE Technology Essentials

*EVIT courses may be substituted towards the 5th math credit and the 4th and 5th science credit for the STEM Diploma Graduation Requirements. See your Student Services Advisor for transcript review.