APPLIED TECHNOLOGIES

9-12 HIGH SCHOOL
2023-24 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.
- ***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:*** Some courses have prerequisite requirements. Students must complete the prerequisites 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.

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 (11^{th}) 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 one 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
    - 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
    - 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 meet graduation requirements and will be graduating with their cohort 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 meet graduation requirements and will be graduating with their cohort 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 meet graduation requirements and will be graduating with their cohort 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

ALA requires 22 credits for graduation. Minimum requirements in the content areas below are as follows:

English English I, English II, English III, English IV	4 credits
Math Algebra 1, Geometry, Algebra 2, one additional math course	4 credits
Science Biology, Chemistry, Physics	3 credits
History and Social Sciences World History, American/Arizona History, Economics, Civics/Government	3 credits
Fitness & Nutrition	1 credit
CTE/Fine Arts	4 credits
Financial Literacy/Entrepreneurship	1 credit
Electives *2.0 Foreign Language credits are required for university entrance*	2 credits
Total	**22 credits**

Arizona University Entrance Diploma

Arizona University Graduation Requirements differ from high school graduation. Minimum requirements in the content areas below are as follows:

English	4 credits
Math Algebra 1, Geometry, Algebra 2, one additional math course	4 credits
Science 3 Lab Sciences	3 credits
History and Social Sciences US/AZ History and one other	2 credits
CTE/Fine Arts	1 credit
Foreign Language Must be the same language	2 credits
Minimum GPA	**3.0**

ALA Honors Diploma

Students who wish to graduate with an honors diploma must:
- *Graduate with a 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
Math Algebra 1, Geometry, Algebra 2, one additional math course	4 credits
Science Biology, Chemistry, Physics, one additional science course	4 credits
History and Social Sciences World History, American/Arizona History, Economics, Civics/Government	3 credits
Fitness & Nutrition	1 credit
CTE/Fine Arts	4 credits
Financial Literacy/Entrepreneurship	1 credit
Foreign Language	2 credits
Electives	1 credit
Total	**24 credits**

ALA STEM Diploma

Students who wish to graduate with a STEM diploma must:
- *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
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, two additional* science courses	5 credits
History and Social Sciences World History, American/Arizona History, Economics, Civics/Government	3 credits
Fitness & Nutrition	1 credit
CTE/Fine Arts	4 credits
Financial Literacy/Entrepreneurship	1 credit
Foreign Language	2 credits
Electives	0 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 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	X	English III Honors	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	

English I

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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 III Honors

Prerequisites	*Fees*	*Credit*
Proficiency on District & State Assessments & English II	None	1.0 Weighted English

English III Honors is an advanced version of English III. The objectives of the course include developing students' awareness and critical analysis of the history and cultural progress of the American nation through literature, conveying the perceptions and experiences of American authors. 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 develop 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. Through debate, research, and argumentative writing, students will demonstrate their mastery of writing and the writing process. 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 IV

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
Cumulative Unweighted GPA ≥ 2.6 OR ACT (English) ≥ 18 OR SAT (English) ≥ 460 OR Writeplacer ≥ 5 OR EdReady English ≥ 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.

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 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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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 MCCCD 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

Prerequisites	*Fees*	*Credit*
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 MCCCD 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

Prerequisites	*Fees*	*Credit*
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 Calculus AB

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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 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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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 MCCCD 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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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 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	American/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	*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	*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).

American/Arizona History

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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	X	X	Mandarin Chinese 1	X	

American Sign Language 1

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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).

Mandarin Chinese 1

Prerequisites	*Fees*	*Credit*
None	None	1.0 Foreign Language or Elective

This course is an introduction to the language and culture. In Mandarin Chinese 1, the student learns vocabulary and grammar through listening, speaking, reading, and writing. Emphasis is placed 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 1

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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).

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	Choir II	X	
X	X	X	X	Choir III	X	

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

Music Appreciation

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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).

Choir II

Prerequisites	*Fees*	*Credit*
Audition/Teacher Approval	$25/semester	1.0 Fine Arts or Elective

Choir II is an intermediate level course that will provide students the opportunity to further develop musicianship skills including vocal and breathing techniques, vowel placement, section unity, music theory and history. Depending on course demand and enrollment, Choir II may be a men's, women's, or mixed ensemble. Junior high students with comparable skills may be placed in this class. Students must audition and/or have teacher approval for this course. This course will include class concerts and school performances and may involve travel to competition in state and local events. 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).

Choir III

Prerequisites	*Fees*	*Credit*
Audition/Teacher Approval	$25/semester	1.0 Fine Arts or Elective

Choir III is an advanced level course that will provide students the opportunity to study a wide variety of music, including chamber literature and more challenging choral works. It will involve advanced vocal techniques and musicianship skills. It will further explore studies in music theory and history preparing the student for college level courses. Depending on course demand enrollment, Choir III may be a men's, women's, or mixed ensemble. Students must audition and/or have teacher approval for this course. This course may involve travel and competition in out-of-state and local events. 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).

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

Prerequisites	*Fees*	*Credit*
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
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	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	Intro to Psychology		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	

Business Communication & Technology/ Career Exploration

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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).

CTE Graphic Design I

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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 MCCCD GBS 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).

Intro to Psychology

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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	

Career Experience (Online)

Prerequisites	*Fees*	*Credit*
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)

Prerequisites	*Fees*	*Credit*
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)

Prerequisites	*Fees*	*Credit*
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)

Prerequisites	*Fees*	*Credit*
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)

Prerequisites	*Fees*	*Credit*
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)

Prerequisites	*Fees*	*Credit*
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).

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
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 Concepts I

Prerequisites	*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	*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	*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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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).

English Language Development 101

Prerequisites	*Fees*	*Credit*
AZELLA Emergent or Basic	None	1.0 English or 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 or Basic level as determined by AZELLA are placed in this course. Students may earn 1.0 English or elective credit for this two semester course.

English Language Development 102

Prerequisites	*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. 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	*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.*

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
	X	X	X	Automotive Technologies I Lab
		X	X	Automotive Technologies II
		X	X	Automotive Technologies II Lab
			X	Automotive Technologies III
			X	Automotive Technologies III Lab
			X	Automotive Technology Apprentice/Internship
			X	Math Applications in Auto Technology
			X	Automotive Technologies Capstone

Automotive Technologies I

Prerequisites	*Fees*	*Credit*
None	None	1.0 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.

Automotive Technologies I Lab

Prerequisites	*Fees*	*Credit*
None	$200	1.0 CTE or Elective

This course is the lab based complementary course designed to apply the theoretical concepts on Automotive Technologies I in an automotive shop lab setting. Students apply their knowledge of 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.

Automotive Technologies II

Prerequisites	*Fees*	*Credit*
Automotive Technologies I	None	1.0 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.

Automotive Technologies II Lab

Prerequisites	*Fees*	*Credit*
Automotive Technologies I	$200	1.0 CTE or Elective

This course is the lab based complementary course designed to apply the theoretical concepts on Automotive Technologies II in an automotive shop lab setting. Students will perform standard inspections, maintenance and repair of: HVAC, Auto Transmission, Manual Transmissions, Engine, Steering and Suspension and Electrical systems in a lab based curriculum on vehicles. Students will 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.

Automotive Technologies III

Prerequisites	*Fees*	*Credit*
Automotive Technologies II	None	1.0 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.

Automotive Technologies III Lab

Prerequisites	*Fees*	*Credit*
Automotive Technologies II	$200	1.0 CTE or Elective

In this lab based course, students will practice the skills necessary to take 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.

Automotive Technology/Collision Repair Apprentice/Internship

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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.

Automotive Technologies Capstone

Prerequisites	*Fees*	*Credit*
Completion of Two Years of Automotive Technologies or Collision Repair 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.) This program requires 1,900 hours of instruction.

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
X	X	X	X	Aircraft Mechanics I Lab
	X	X	X	Aircraft Mechanics II
	X	X	X	Aircraft Mechanics II Lab
		X	X	Aircraft Mechanics III
		X	X	Aircraft Mechanics III Lab
			X	Aircraft Mechanics IV
			X	Aircraft Mechanics IV Lab
	X	X	X	Air Transportation I/DE
	X	X	X	Air Transportation I/DE Lab
		X	X	Air Transportation II/DE
		X	X	Air Transportation II/DE Lab
			X	Air Transportation III
			X	Air Transportation III Lab
			X	Aviation Capstone

Aircraft Mechanics I

Prerequisites	*Fees*	*Credit*
None	None	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 receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Aircraft Mechanics I Lab

Prerequisites	*Fees*	*Credit*
None	$400	1.0 CTE or Elective

In this lab based one year course, students will apply their theoretical knowledge of 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. The appropriate use of technology is an integral part of this course. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Aircraft Mechanics II

Prerequisites	*Fees*	*Credit*
Aircraft Mechanics I	None	1.0 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 receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Aircraft Mechanics II Lab

Prerequisites	*Fees*	*Credit*
Aircraft Mechanics I	$400	1.0 CTE or Elective

This course is designed for students who have successfully completed Aviation Maintenance Technician I. In this lab based course, students will apply their theoretical knowledge of: physical mathematics, weight and balance, Federal Aviation Administration (FAA) regulations, common and special tools and measuring devices, fluid lines, hardware, aircraft servicing, and documentation. The appropriate and practical use of technology is an integral part of this course. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Aircraft Mechanics III

Prerequisites	*Fees*	*Credit*
Aircraft Mechanics II	None	1.0 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 receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Aircraft Mechanics III Lab

Prerequisites	*Fees*	*Credit*
Aircraft Mechanics II	$400	1.0 CTE or Elective

This lab based course provides intermediate aviation maintenance technician students with experiences to apply their theoretical knowledge: general aeronautics, 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 receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Aircraft Mechanics IV

Prerequisites	*Fees*	*Credit*
Aircraft Mechanics III	None	1.0 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 receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Aircraft Mechanics IV Lab

Prerequisites	*Fees*	*Credit*
Aircraft Mechanics III	$400	1.0 CTE or Elective

This lab based course provides advanced aviation maintenance technician students with practical application in advanced techniques and processes learned in Aircraft Maintenance Technician I, II, and III. Areas of application 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 receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Air Transportation I/DE - Introduction to Flight

Prerequisites	*Fees*	*Credit*
None	None	1.0 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 receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Air Transportation I/DE Lab

Prerequisites	*Fees*	*Credit*
None	$400	1.0 CTE or Elective

This lab-based course will provide the foundation for advanced application in the areas of flying, aerospace engineering, and unmanned aircraft systems. Students will apply 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 begin to understand the various sectors of aviation and the elements that make up the aviation and aerospace ecosystem through simulation and project based learning. They will apply FAA regulations and apply civil aviation oversight through scenarios. Students will explore modern innovations and develop their own innovative ideas to address real-world challenges facing the aviation industry. 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 receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Air Transportation II/DE – Unmanned Aerial Systems

Prerequisites	*Fees*	*Credit*
Air Transportation I	None	1.0 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 receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Air Transportation II/DE - Lab

Prerequisites	*Fees*	*Credit*
Air Transportation I	$400	1.0 CTE or Elective

In this lab-based course, students will categorize unmanned aircraft, identify their parts, and apply aircraft construction techniques and materials. They will apply forces of flight—lift, weight, thrust, and drag—and make key calculations that impact aircraft operations. Activities include principles of flight, minor maintenance and drone flying skills. Students will further develop their flying skills with different models and types of drones. They will gain experience by logging additional flying hours as well as programming technically advanced unmanned aircraft in preparation for their exam. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Air Transportation III – Private Pilot Ground School

Prerequisites	*Fees*	*Credit*
Air Transportation II	None	1.0 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 receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Air Transportation III Lab

Prerequisites	*Fees*	*Credit*
Air Transportation II	$400	1.0 CTE or Elective

This lab based course is foundational for manned aviation and will prepare students to take the Federal Aviation Administration's Private Pilot Knowledge Test. Hands-on experience includes: pre-flight procedures, airspace, radio communications, aviation phraseology, regulations, airport operations, aviation safety, weather, cockpit management, and emergency procedures. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Aviation Capstone

Prerequisites	*Fees*	*Credit*
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	X	Business Management & Finance I Lab
		X	X	Business Management & Finance II
		X	X	Business Management & Finance II Lab
			X	Business Management & Finance III
			X	Business Management & Finance III Lab
			X	Business/Finance Apprentice/Internship
			X	Business and Finance Capstone

Business Management & Finance I

Prerequisites	*Fees*	*Credit*
None	None	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.

Business Management & Finance I Lab

Prerequisites	*Fees*	*Credit*
None	$75	1.0 CTE or Elective

In this lab based course students apply the principles of business through project based learning and simulations. Students will be engaged in teamwork, presentations, computer-related activities, and current events while

implementing knowledge of: 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 lab provides students with practical application in 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 project based 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.

Business Management & Finance II

Prerequisites	*Fees*	*Credit*
Business Management & Finance I	None	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.

Business Management & Finance II Lab

Prerequisites	*Fees*	*Credit*
Business Management & Finance I	$75	1.0 CTE or Elective

In this lab based course, students will practice skills of: business management, 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 assist students in applying proficient financial business skills and leadership abilities by developing 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 apply introductory 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.

Business Management & Finance III

Prerequisites	*Fees*	*Credit*
Business Management & Finance II	None	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.

Business Management & Finance III Lab

Prerequisites	*Fees*	*Credit*
Business Management & Finance II	$75	1.0 CTE or Elective

This lab based 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 engage in project based learning in: strategic perspective of production, marketing, accounting, international business and human resources. In addition, students will engage in financial analysis, including financial statement analysis, cash budgeting, and pro forma analysis in project based learning and simulations. Students will examine business investments 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. Opportunities to engage in short term internships in varied businesses will be available. Completion of the Business Management - Level III will lead to new opportunities and provide students with a solid foundation upon which to build a management career.

Business/Finance Apprentice/Internship

Prerequisites	*Fees*	*Credit*
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.

Business and Finance Capstone

Prerequisites	*Fees*	*Credit*
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.

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

Construction Technologies I

Prerequisites	*Fees*	*Credit*
None	None	1.0 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 receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Construction Technologies I Lab

Prerequisites	*Fees*	*Credit*
None	$200	1.0 CTE or Elective

Construction Technologies I Lab is a lab based course that provides students with the opportunity to apply knowledge of job and workplace safety, safety engineering, framing/structural design and fabrication, plumbing, masonry, and concrete. Students will apply the fundamentals of residential electric and HVAC systems. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Construction Technologies II

Prerequisites	*Fees*	*Credit*
Construction Technologies I	None	1.0 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 receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Construction Technologies II Lab

Prerequisites	*Fees*	*Credit*
Construction Technologies I	$200	1.0 CTE or Elective

Construction Technologies II is a lab based course providing students with additional hands-on experiences to master the knowledge gained during Construction Technologies I. Students will also demonstrate their mastery of information through building various structures as assigned. Students will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Construction Management 101

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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 Apprentice/Internship

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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).

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.

Cosmetology (hair):
This is a four year program that prepares students to earn an Arizona cosmetology license. This program requires 1500 hours of instruction and hands-on lab work.

Aesthetics (skin, nails, eyelash extensions):
This is a three 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 500 hours of instruction and hands-on lab work for nails.

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

Cosmetology I

Prerequisites	*Fees*	*Credit*
None	$350	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

Prerequisites	*Fees*	*Credit*
Cosmetology I	$350	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.

Cosmetology III

Prerequisites	*Fees*	*Credit*
Cosmetology II	None	1.0 CTE or Elective

Students in this course continue to work toward qualifying to be able to take the Arizona Cosmetology License.

Cosmetology III Lab

Prerequisites	*Fees*	*Credit*
Cosmetology II	$350	1.0 CTE or Elective

Students in this course continue to demonstrate practical application of knowledge in the school salon as they work toward qualifying to be able to take the Arizona Cosmetology License.

Cosmetology IV

Prerequisites	*Fees*	*Credit*
Cosmetology III	None	1.0 CTE or Elective

This instructional program prepares students for entry level employment, further training, and/or post-secondary education. Students develop leadership, social, civic, and career skills. Students in this course continue to work toward qualifying to be able to take the Arizona Cosmetology License.

Cosmetology IV Lab

Prerequisites	*Fees*	*Credit*
Cosmetology III	$350	1.0 CTE or Elective

This lab based course students prepare for entry level employment, further training, and/or post-secondary education. Students develop leadership, social, civic, and career skills. Students in this course continue to develop skills toward qualifying to be able to take the Arizona Cosmetology License.

Aesthetics I

Prerequisites	*Fees*	*Credit*
None	$350	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

Prerequisites	*Fees*	*Credit*
Aesthetics I	$350	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

Prerequisites	*Fees*	*Credit*
Aesthetics 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.

Aesthetics III Lab

Prerequisites	*Fees*	*Credit*
Aesthetics II	$350	1.0 CTE or Elective

Students in this lab based 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 specialize in 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. Lab experience includes providing services for clients in the school salon.

Cosmetology/Aesthetics Capstone

Prerequisites	*Fees*	*Credit*
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	Early Childhood Education I
	X	X	X	Early Childhood Education I Lab
		X	X	Early Childhood Education II
		X	X	Early Childhood Education II Lab
			X	Early Childhood Education III
			X	Early Childhood Education III Lab
	X	X	X	Education Professions I
	X	X	X	Education Professions I Lab
		X	X	Education Professions II
		X	X	Education Professions II Lab
			X	Education Professions III
			X	Education Professions III Lab
			X	Education Capstone

Early Childhood Education I

Prerequisites	*Fees*	*Credit*
None	None	1.0 CTE or Elective

This course addresses basic child development, health & safety, observation skills as well as careers in early childhood professions. The first year of early childhood education students focus on the early childhood philosophy, childhood development, career opportunities and current issues in health, nutrition and curriculum development. Students in this program will be working towards Child Development Associate Credential (CDA).

Early Childhood Education I Lab

Prerequisites	*Fees*	*Credit*
None	$50	1.0 CTE or Elective

In this lab based course students apply basic child development, health & safety, observation skills as well as careers in early childhood professions through project based learning. The first year of early childhood education students focus on the early childhood philosophy, childhood development, career opportunities and current issues in health, nutrition and curriculum development. Students will gain hands-on experience in lab settings including our on-site lab school. Students in this program will be working towards Child Development Associate Credential (CDA).

Early Childhood Education II

Prerequisites	*Fees*	*Credit*
Early Childhood Education I	None	1.0 CTE or Elective

In this course students will participate in a lab setting and focus on child guidance techniques, family dynamics, observation/assessment, advance curriculum development and classroom management. This self-paced performance-based program allows for advancement that meets individual academic needs. Qualified students have the opportunity to earn their Child Development Associate National Certification upon completion of this program and the necessary requirements.

Early Childhood Education II Lab

Prerequisites	*Fees*	*Credit*
Early Childhood Education I	$50	1.0 CTE or Elective

In this course students will apply their knowledge of child guidance techniques, family dynamics, observation/assessment, advance curriculum development and classroom management. This self-paced performance-based program allows for advancement that meets individual academic needs. Students will gain hands-on experience in lab settings including our on-site lab school. Qualified students have the opportunity to earn their Child Development Associate National Certification upon completion of this program and the necessary requirements.

Early Childhood Education III

Prerequisites	*Fees*	*Credit*
Early Childhood Education I, II	None	1.0 CTE or Elective

This course will focus on employment and job tasks in early education settings, and management of childcare programs as well as field experience at the early elementary level. Students will be introduced to policies and procedures that govern education. Students will design lessons to be used in the on site preschools.

Early Childhood Education III Lab

Prerequisites	*Fees*	*Credit*
Early Childhood Education I, II	$50	1.0 CTE or Elective

This course will focus on employment in early education settings, and management of childcare programs as well as field experience at the early elementary level. In this course students will participate in a lab setting and focus on child guidance techniques, family dynamics, observation/assessment, advanced lesson planning, and practice teaching methods.

Education Professions I

Prerequisites	*Fees*	*Credit*
None	None	1.0 CTE or Elective

In this course students will experience the wide range of educating youth, including teaching, coaching, counseling and administration. Students will begin to develop their educational philosophy, build sound pedagogical practices, and study optimal learning environments. Students in this program will be working towards Paraprofessional Praxis Certification.

Education Professions I Lab

Prerequisites	*Fees*	*Credit*
None	$50	1.0 CTE or Elective

In this lab based course students will experience the wide range of educating youth, including teaching, coaching, counseling and administration through project based learning. Students will begin to develop their educational philosophy, build sound pedagogical practices, and study optimal learning environments. Students in this program will be working towards Paraprofessional Praxis Certification.

Education Professions II

Prerequisites	*Fees*	*Credit*
Education Professions I	None	1.0 CTE or Elective

In this course students will continue to develop their educational philosophy, build sound pedagogical practices, and study optimal learning environments. In addition, communication skills, lesson planning, teaching methods, classroom responsibilities, educational issues, professional development and classroom management skills will be emphasized in class. Students will continue to participate in ongoing field experiences with teachers, coaches, and others in the field of education. Students in this program will be working towards Paraprofessional Praxis Certification.

Education Professions II Lab

Prerequisites	*Fees*	*Credit*
Education Professions I	$50	1.0 CTE or Elective

In this lab based course students will continue to develop their educational philosophy, build sound pedagogical practices, and study optimal learning environments. In addition, communication skills, lesson planning, teaching methods, classroom responsibilities, educational issues, professional development and classroom management skills will be emphasized in class. Students will continue to participate in ongoing field experience with teachers, coaches, and others in the field of education. Students in this program will be working towards Paraprofessional Praxis Certification.

Education Professions III

Prerequisites	*Fees*	*Credit*
Education Professions II	None	1.0 CTE or Elective

In this course students will continue to learn about the field of education by using community-based learning done through service projects that benefit community organizations. Students will foster civic responsibility by creating and implementing a service-learning project of their choosing.

Education Professions III Lab

Prerequisites	*Fees*	*Credit*
Education Professions II	$50	1.0 CTE or Elective

In this lab based course students will apply their knowledge about the field of education by using community-based learning done through service projects that benefit community organizations. Students will foster civic responsibility by creating and implementing a service-learning project of their choosing. Students will participate in ongoing field experiences with teachers, coaches, and others in the field of education.

Education Capstone

Prerequisites	*Fees*	*Credit*
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
	X	X	X	Emergency Medical Technician I Lab
		X	X	Emergency Medical Technician II
		X	X	Emergency Medical Technician II Lab
		X	X	Emergency Medical Technician III
		X	X	Emergency Medical Technician III Lab
			X	Emergency Medical Technician IV
			X	Emergency Medical Technician IV Lab
	X	X	X	Law and Public Safety I
	X	X	X	Law and Public Safety I Lab
		X	X	Law and Public Safety II
		X	X	Law and Public Safety II Lab
			X	Law and Public Safety III
			X	Law and Public Safety III 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

Prerequisites	*Fees*	*Credit*
None	None	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.

Emergency Medical Technician I Lab

Prerequisites	*Fees*	*Credit*
None	$200	1.0 CTE or Elective

In this lab based 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.

Emergency Medical Technician II

Prerequisites	*Fees*	*Credit*
Emergency Medical Technician I	None	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.

Emergency Medical Technician II Lab

Prerequisites	*Fees*	*Credit*
Emergency Medical Technician I	$200	1.0 CTE or Elective

In this lab based 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.

Emergency Medical Technician III

Prerequisites	*Fees*	*Credit*
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.

Emergency Medical Technician III- Lab

Prerequisites	*Fees*	*Credit*
Emergency Medical Technician I, II	None	1.0 CTE or Elective

This course will expand upon previous courses in the sequence. 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 receive 1.0 CTE credit upon completion of this two-semester course (0.5 credit each semester).

Emergency Medical Technician IV

Prerequisites	*Fees*	*Credit*
Emergency Medical Technician I, II, III	None	1.0 CTE or Elective

This course will expand upon previous courses in the sequence. 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.

Emergency Medical Technician IV- Lab

Prerequisites	*Fees*	*Credit*
Emergency Medical Technician I, II, III	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.

Law and Public Safety I

Prerequisites	*Fees*	*Credit*
None	None	1.0 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.

Law and Public Safety I Lab

Prerequisites	*Fees*	*Credit*
None	$100	1.0 CTE or Elective

Students in this lab base course will apply 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 apply their knowledge of how laws work to meet human problems and how interpretations of laws adjust within an evolving social order. Students will be provided project based learning and simulations 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 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.

Law and Public Safety II

Prerequisites	*Fees*	*Credit*
Law and Public Safety I	None	1.0 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.

Law and Public Safety II Lab

Prerequisites	*Fees*	*Credit*
Law and Public Safety I	$100	1.0 CTE or Elective

In this lab based course students will demonstrate 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. Students will analyze how laws work to meet human problems and how interpretations of laws adjust within an evolving social order. Students will be provided project

based learning and simulations 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 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.

Law and Public Safety III

Prerequisites	*Fees*	*Credit*
Law and Public Safety I, II	None	1.0 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.

Law and Public Safety III Lab

Prerequisites	*Fees*	*Credit*
Law and Public Safety I, II	$100	1.0 CTE or Elective

In this lab based course, students will apply their advanced 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. Students will demonstrate 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.

National Defense Corps of Cadets I

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
None	None	1.0 Elective

In this course, students will expand uponNational 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	*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
		X	X	Licensed Nurse Assistant I Lab
			X	Licensed Nurse Assistant II
			X	Licensed Nurse Assistant II Lab
		X	X	Licensed Nurse Assistant III
		X	X	Licensed Nurse Assistant III Lab
			X	Licensed Nurse Assistant IV
			X	Licensed Nurse Assistant IV Lab
		X	X	Dental Assisting I
		X	X	Dental Assisting I Lab
			X	Dental Assisting II
			X	Dental Assisting II Lab
			X	Dental Assisting III
			X	Dental Assisting III Lab
	X	X	X	Emergency Medical Technician I
	X	X	X	Emergency Medical Technician I Lab
		X	X	Emergency Medical Technician II
		X	X	Emergency Medical Technician II Lab
		X	X	Emergency Medical Technician III
		X	X	Emergency Medical Technician III Lab
			X	Emergency Medical Technician IV
			X	Emergency Medical Technician IV Lab
			X	Health Services Capstone

Licensed Nurse Assistant I

Prerequisites	*Fees*	*Credit*
None	None	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.

Licensed Nurse Assistant I Lab

Prerequisites	*Fees*	*Credit*
None	$250	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 direct patient care. The curriculum includes building foundational skills in: medical terminology, therapeutic 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 semester long course students will begin to examine the legal and ethical aspects involved in nursing. Strong understanding of safety and professional standards will be taught.

Licensed Nurse Assistant II

Prerequisites	*Fees*	*Credit*
Licensed Nurse Assistant I	None	1.0 CTE or Elective

In this course, students will continue to practice the skills learned in Licensed Nurse Assistant I. 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.

Licensed Nurse Assistant II Lab

Prerequisites	*Fees*	*Credit*
Licensed Nurse Assistant I	$250	1.0 CTE or Elective

In this course, students will continue to practice the skills learned in Licensed Nurse Assistant I. 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.

Licensed Nurse Assistant III

Prerequisites	*Fees*	*Credit*
Licensed Nurse Assistant I, II	None	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 direct patient care. The curriculum includes building foundational skills in: medical terminology, therapeutic 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 semester long course students will begin to examine the legal and ethical aspects involved in nursing. Strong understanding of safety and professional standards will be taught.

Additional Areas of Study (students can choose two per year within LNA III and IV):

Phlebotomy (one semester) - designed to teach the knowledge of technical and procedural aspects of basic phlebotomy, including collection of blood specimens and venipuncture required to become a Phlebotomy technician.

EKG (electrocardiogram) (one semester) - provides an introductory overview related to the anatomy and physiology of the heart; explores normal electrical conduction as well as common variations as evidenced by

changes in the waveform on the cardiac monitoring device; focuses on the student's ability to perform cardiac monitoring via 3, 5 and 12 lead monitoring devices.
Medical Assisting (one semester) - prepares students for certification by introducing essential topics like medical terminology, laws and ethics, medical office administration skills, records management, coding, and billing; lessons also touch on basic clinical procedures and patient relations.
Pharmaceutical Technician (one semester) - presents a study of the history and evolution of the pharmacy profession as well as the responsibilities of pharmacists and pharmacy technicians;introduces common medical and pharmaceutical terms and symbols and reviews the regulations and standards of the pharmacy profession. Students will receive 1.0 CTE credit upon completion of this two-semester course (0.5 credit each semester).

Licensed Nurse Assistant III Lab

Prerequisites	*Fees*	*Credit*
Licensed Nurse Assistant I, II	$250	1.0 CTE or Elective

In this course, students will continue to practice the skills learned in Licensed Nurse Assistant III.

Licensed Nurse Assistant IV

Prerequisites	*Fees*	*Credit*
Licensed Nurse Assistant I, II, III	None	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 direct patient care. The curriculum includes building foundational skills in: medical terminology, therapeutic 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 semester long course students will begin to examine the legal and ethical aspects involved in nursing. Strong understanding of safety and professional standards will be taught.
Additional Areas of Study (students can choose two per year within LNA III and IV):
Phlebotomy (one semester) - designed to teach the knowledge of technical and procedural aspects of basic phlebotomy, including collection of blood specimens and venipuncture required to become a Phlebotomy technician.
EKG (electrocardiogram) (one semester) - provides an introductory overview related to the anatomy and physiology of the heart; explores normal electrical conduction as well as common variations as evidenced by changes in the waveform on the cardiac monitoring device; focuses on the student's ability to perform cardiac monitoring via 3, 5 and 12 lead monitoring devices.
Medical Assisting (one semester) - prepares students for certification by introducing essential topics like medical terminology, laws and ethics, medical office administration skills, records management, coding, and billing; lessons also touch on basic clinical procedures and patient relations.
Pharmaceutical Technician (one semester) - presents a study of the history and evolution of the pharmacy profession as well as the responsibilities of pharmacists and pharmacy technicians;introduces common medical and pharmaceutical terms and symbols and reviews the regulations and standards of the pharmacy profession. Students will receive 1.0 CTE credit upon completion of this two-semester course (0.5 credit each semester).

Licensed Nurse Assistant IV Lab

Prerequisites	*Fees*	*Credit*
Licensed Nurse Assistant I, II, III	$250	1.0 CTE or Elective

In this course, students will continue to practice the skills learned in Licensed Nurse Assistant IV.

Dental Assisting I

Prerequisites	*Fees*	*Credit*
Med Professions I (recommended)	None	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. 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.

Dental Assisting I Lab

Prerequisites	*Fees*	*Credit*
Med Professions I Lab (recommended)	$250	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. During the second semester, skills and experience are gained through internships at local dental offices. Participation in this class will prepare students for a Radiation Health and Safety (RHS) (DANB).

Dental Assisting II

Prerequisites	*Fees*	*Credit*
Dental Assisting I	None	1.0 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.

Dental Assisting II Lab

Prerequisites	*Fees*	*Credit*
Dental Assisting I	$250	1.0 CTE or Elective

During this course, practical application advanced skills and experience are gained through lab experiences in the on-site dental clinic. 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.

Dental Assisting III

Prerequisites	*Fees*	*Credit*
Dental Assisting I, II	None	1.0 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.

Dental Assisting III Lab

Prerequisites	*Fees*	*Credit*
Dental Assisting I, II	None	1.0 CTE or Elective

During this course, practical application advanced skills and experience are gained through lab experiences in the on-site dental clinic.

Emergency Medical Technician I

Prerequisites	*Fees*	*Credit*
Med Professions I (recommended)	None	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.

Emergency Medical Technician I Lab

Prerequisites	*Fees*	*Credit*
Med Professions I Lab (recommended)	$200	1.0 CTE or Elective

In this lab based 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.

Emergency Medical Technician II

Prerequisites	*Fees*	*Credit*
Emergency Medical Technician I	None	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.

Emergency Medical Technician II Lab

Prerequisites	*Fees*	*Credit*
Emergency Medical Technician I	$200	1.0 CTE or Elective

In this lab based 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.

Emergency Medical Technician III

Prerequisites	*Fees*	*Credit*
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.

Emergency Medical Technician III- Lab

Prerequisites	*Fees*	*Credit*
Emergency Medical Technician I, II	$200	1.0 CTE or Elective

This course will expand upon previous courses in the sequence. 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 receive 1.0 CTE credit upon completion of this two-semester course (0.5 credit each semester).

Emergency Medical Technician IV

Prerequisites	*Fees*	*Credit*
Emergency Medical Technician I, II, III	None	1.0 CTE or Elective

This course will expand upon previous courses in the sequence. 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.

Emergency Medical Technician IV- Lab

Prerequisites	*Fees*	*Credit*
Emergency Medical Technician I, II, III	$200	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.

Health Services Capstone

Prerequisites	*Fees*	*Credit*
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
	X	X	X	Hospitality Management I Lab
		X	X	Hospitality Management II
		X	X	Hospitality Management II Lab
			X	Hospitality Management III
			X	Hospitality Management III Lab
	X	X	X	Culinary Arts I
	X	X	X	Culinary Arts I Lab
		X	X	Culinary Arts II
		X	X	Culinary Arts II Lab
			X	Culinary Arts III
			X	Culinary Arts III Lab
			X	Hospitality Apprenticeship/Internship
			X	Hospitality Capstone

Hospitality Management I

Prerequisites	*Fees*	*Credit*
None	None	1.0 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.

Hospitality Management I Lab

Prerequisites	*Fees*	*Credit*
None	$100	1.0 CTE or Elective

In this lab based course students will apply the principles of operations in the travel and tourism industries, hotel and lodging facilities, food services, recreation, and hospitality planning and business operations through

simulation and project based learning. 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 toward qualifying to be able to take the ServSafe Food Protection Manager.

Hospitality Management II

Prerequisites	*Fees*	*Credit*
Hospitality Management I	None	1.0 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.

Hospitality Management II Lab

Prerequisites	*Fees*	*Credit*
Hospitality Management I	$100	1.0 CTE or Elective

In this lab based course students will apply the fundamental overview of hotel, restaurant, and tourism segments of the hospitality industry through simulation and project based learning. Provides an overview of the operational sectors of the industry and reviews management components and skills. Students can design career components to help students make informed career decisions. Students in this course are qualified to take the ServSafe Food Protection Manager.

Hospitality Management III

Prerequisites	*Fees*	*Credit*
Hospitality Management I, II	None	1.0 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.

Hospitality Management III Lab

Prerequisites	*Fees*	*Credit*
Hospitality Management I, II	$100	1.0 CTE or Elective

In this lab based course students will experience lab 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.

Culinary Arts I

Prerequisites	*Fees*	*Credit*
None	None	1.0 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.

Culinary Arts I Lab

Prerequisites	*Fees*	*Credit*
None	$200	1.0 CTE or Elective

In this lab based course students will apply introductory health and safety standards for food preparation including government regulation of food and nutrition. Food preparation and presentation techniques are practiced in authentic lab experiences emulating 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.

Culinary Arts II

Prerequisites	*Fees*	*Credit*
Culinary Arts I	None	1.0 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.

Culinary Arts II Lab

Prerequisites	*Fees*	*Credit*
Culinary Arts I	$200	1.0 CTE or Elective

In this lab based course students will demonstrate more advanced 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.

Culinary Arts III

Prerequisites	*Fees*	*Credit*
Culinary Arts I, II	None	1.0 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.

Culinary Arts III Lab

Prerequisites	*Fees*	*Credit*
Culinary Arts I, II	$200	1.0 CTE or Elective

In this course lab based course students are provided 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.

Hospitality Apprentice/Internship

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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.

Network Security:
This is a three year program that prepares students to earn several certifications in the protection of computer and network systems from digital theft, damage, or sabotage.

Software and App Design
This is a three year program that prepares students to earn several industry certifications. Automation is the process of using physical machines, computer software, and other technologies to perform tasks that are usually done by humans. Robotics is the process of designing, creating, and using robots to perform a certain task. Both use computer coding to create, design, and deploy software.

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

IT & Network Security I

Prerequisites	*Fees*	*Credit*
None	None	1.0 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+.

IT & Network Security I Lab

Prerequisites	*Fees*	*Credit*
None	$100	1.0 CTE or Elective

In this lab based course students demonstrate how information technology systems operate. This course introduces principles of computers, basic concepts of software development and computer maintenance with an emphasis on network technologies. Students will demonstrate their knowledge of the IT industry, computer mathematics, and the evolution of the computer through project based learning and simulations. Students in this program will be working towards CompTIA certification in: A+, IT Fundamentals, Network +, Security+.

IT & Network Security II

Prerequisites	*Fees*	*Credit*
Network Security I	None	1.0 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+.

IT & Network Security II Lab

Prerequisites	*Fees*	*Credit*
Network Security I	$100	1.0 CTE or Elective

In this lab based course, students demonstrate principles of computer repair, basic concepts of software development and computer maintenance with an emphasis on network technologies through project based learning and simulations including real-world computer repair in partnership with AZStRUT. Students in this program will be working towards CompTIA certification in: A+, IT Fundamentals, Network+, Security+.

IT & Network Security III

Prerequisites	*Fees*	*Credit*
Network Security I	None	1.0 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+.

Software and App Design I

Prerequisites	*Fees*	*Credit*
None	None	1.0 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 I Lab

Prerequisites	*Fees*	*Credit*
None	$100	1.0 CTE or Elective

In this course, students will explore the application of programming. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

Software and App Design II

Prerequisites	*Fees*	*Credit*
Software and App Design I	None	1.0 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 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 Lab

Prerequisites	*Fees*	*Credit*
Software and App Design I	$100	1.0 CTE or Elective

In this course, students will explore the application of programming. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

Software and App Design III

Prerequisites	*Fees*	*Credit*
Software and App Design I, II	None	1.0 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 will receive 1.0 CTE or Elective credit upon completion of this two-semester course (0.5 credit each semester).

Software and App Design III Lab

Prerequisites	*Fees*	*Credit*
Software and App Design I, II	$100	1.0 CTE or Elective

In this lab based course, students will demonstrate the application and integration of technology to product design and product manufacturing project based learning and simulations. Topics include: robotics, machine vision, process automations, programmable logic controllers, motion control, and the use of computers for design and manufacture.

Technology Apprentice/Internship

Prerequisites	*Fees*	*Credit*
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 Network Security orSoftware 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

Prerequisites	*Fees*	*Credit*
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

Prerequisites	*Fees*	*Credit*
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
4th/5th year High School Science	
Economics	0.5 Business Management
	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.