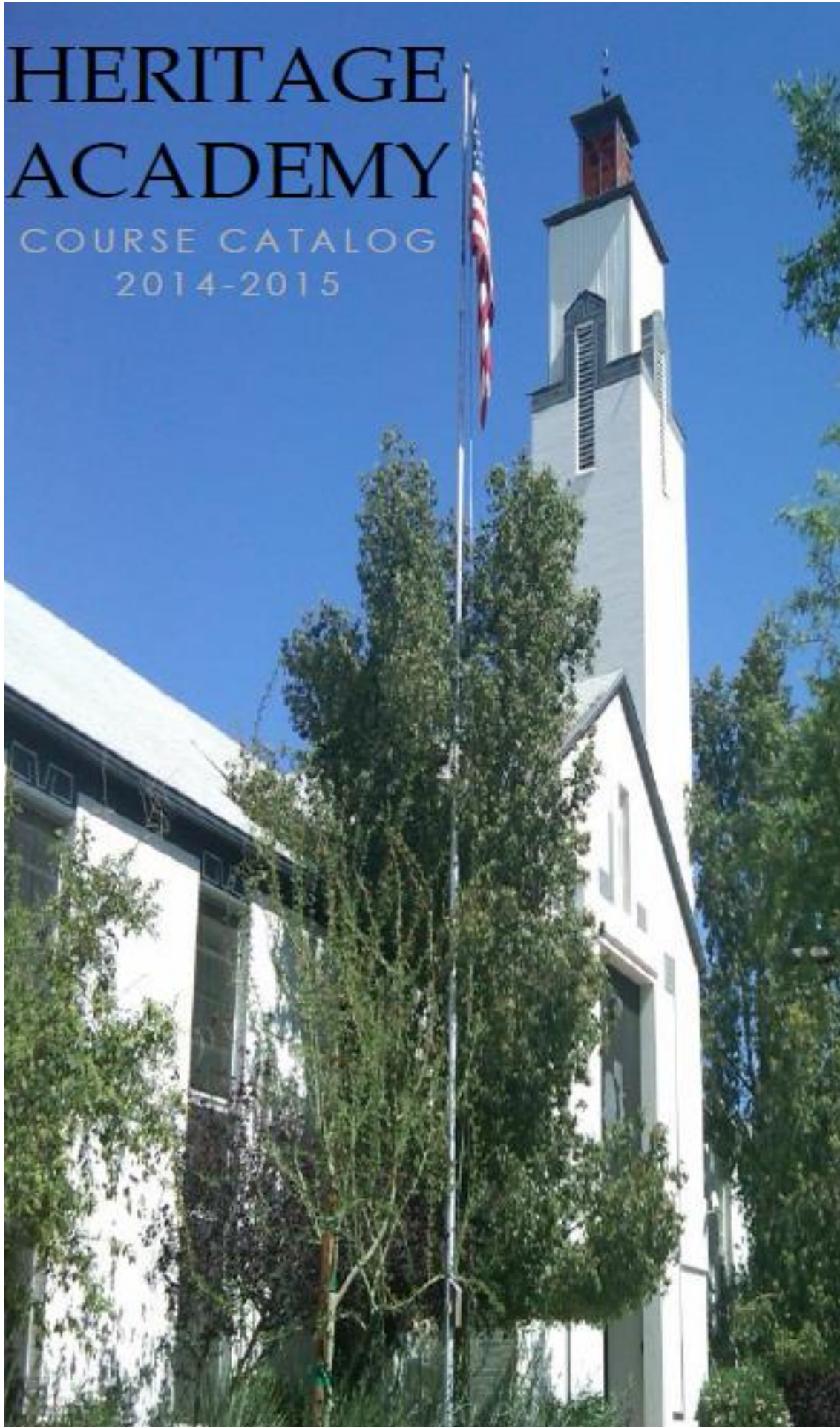


HERITAGE ACADEMY

COURSE CATALOG
2014-2015



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GENERAL INFORMATION

The *Heritage Academy* Course Catalog has been designed to provide course selection information for the 2014-2015 school year. Scholars are encouraged to consult with parents, advisors, and teachers to carefully consider the information within this catalog to aid in selecting courses that will satisfy their graduation requirements, as well as post-graduation plans.

The information presented in this Course Catalog describes the academic and elective offerings available to scholars for the 2014-2015 school year. It is important to review graduation requirements and ensure that course selections are made with serious consideration. Some courses may have prerequisite requirements that must be satisfied to enroll in the course.

It should be noted that not all of the courses offered will be made available due limited student requests and teacher availability. For this reason it is important during the pre-registration period to make thoughtful selections to equalize course enrollments and minimize scheduling changes.

WHAT'S NEW FOR 2014-2015?

New Dual Enrollment courses taught at Heritage Academy. Heritage Academy is continuing to expand the Dual Enrollment course offerings. These courses offer scholars great flexibility and opportunity to forge ahead with academic goals. Scholars may enroll in Math, English, Science, Economics, Foreign Language, and Computer Science courses and receive credit at either Rio Salado Community College or Grand Canyon University. The following dual enrollment courses will be made available for the first time in the 2014-2015 academic year.

- CHM 130 (Fundamental Chemistry) – Mesa Campus

Course additions and changes:

“Heroes of Film” will be offered as a new course at the Mesa Campus. This course will be available for high school juniors and seniors.

American Government will be offered as a one semester class required for all graduating seniors. This class will meet only the first semester, twice a week and will be a 0.5 credit class.

All dance classes, including Ballroom Dance, will be offered only as a Fine Arts credit and no longer will be substituted as a physical education credit.

Tennis will be offered as a high school only course at the Mesa Campus

Policy on Repeating a Failed Course: Effective for the 2014-2015 school year the following policy will be place for scholars who fail a required core class:

A student who fails a required class must make up the class at a time and place other than during the regular school year. This will involve a summer school commitment, either at Heritage, if offered, or at another acceptable school. A student will not be allowed to register for the same class at Heritage during the regular school year again. If a student wishes to take the class from an acceptable on-line school, it must be done also during the summer months and not during the regular school time.

In nearly every case, a student fails a class because of not doing the required work. Students will want to seriously consider the consequences of not doing the required work during the regular school semester/year. It is much easier to do the work when assigned than to choose not to do the work and

then have to make it up during the summer. Summer school classes cost money and take time from family and vacation time.

This policy applies to high school grades. The current policy of requiring students in seventh and eighth grades to repeat the entire grade if required classes are not passed, remains in effect. Summer school make-up classes will not apply to seventh and eighth grade students.

REGISTRATION PROCESS

Scholars will use an online course registration program beginning on **April 10, 2014**.

You will be requesting for the whole year at this time; **it is therefore important that scholars make course selections carefully as classes are formed based on student requests**. Some courses listed in the catalog may not be available if the registration is not sufficient to hold the class. Each student must register for the equivalent of 8 classes each semester; 4 of the 8 classes will meet Monday/Wednesday and the other 4 will meet on Tuesday/Thursday. All registration matters will be handled via email. Schedules will be available for review through Parent Portal access one week prior to the start of school. Final schedules will be handed out on the first day of school.

To register for courses go to grades.hamesa.com and input your ID and password. Once you are in PowerSchool, select the "Register for Classes" tab and follow the directions on the enrollment screen. If unable to access account or need to retrieve user ID and password please email admin@heritageacademyaz.com or contact the front office.

Course Fees:

For courses with an associated course fee, payment for both semesters is **due in full** no later than **August 7, 2014**. Any scholar with an outstanding balance to the school will not be enrolled into any fee-bearing course until the balance is paid in full or a payment arrangement has been with the front office. Payment arrangements that are not kept will result in the scholar being withdrawn from the fee bearing course and placed into a non-fee bearing course that is available during that same class period effective **August 7, 2014**.

Junior High Team Sport fees will be capped at \$300 per scholar per academic year.

High School Team Sport fees will be capped a \$550 per scholar playing Tackle Football and \$300 for all other scholars per academic year.

DUAL ENROLLMENT

Heritage Academy offers ambitious scholars the opportunity to concurrently enroll in college-level course while fulfilling high school academic requirements. Seniors, juniors, sophomores, and freshmen are eligible for these courses, which are conveniently offered at the Heritage Academy campus by current Heritage teachers that are certified dual enrollment college instructors. Dual enrollment courses are transferable to Arizona public colleges and universities easing the transition from high school to college.

COURSE SCHEDULING

Heritage Academy will make every effort to schedule course requests from the scholar; however, since the schedule is completed on a full-year basis the following circumstances may affect scheduling:

- If a sufficient number of scholars do not request a course, the course will not be made available. In the event that a course is not offered, every effort will be made to schedule an alternate selection from the course request form.
- If a selected course request conflicts with another request, every effort will be made to schedule an alternate selection from the course request form to replace the unscheduled course.
- If a scholar chooses a course and does not meet the prerequisite or did not complete the course, the scholar's schedule will be adjusted accordingly.
- If a scholar has an outstanding balance owing to the school, he/she will not be permitted to enroll in a fee bearing class until balance is paid in full.

For these reasons, it is critical that the scholar completes the "alternate selections" section of the course request form. Please note that if the "alternate selections" section is not completed, the student will be scheduled for any non-fee bearing elective(s) available.

SCHEDULE CHANGE PROCESS

Scholar-initiated schedule changes will begin on the second day of class. The scholar will be required to submit a signed and completed [Course Schedule Change Request](#) form no later than eight days following the beginning of the semester. Changes will be processed based on course availability and in the order they are received. No schedule change requests or changes will occur after the **second week** of the semester with the exception of teacher requests.

A scholar's schedule may only be changed under the following conditions:

- Scholar has already received credit for a scheduled course
- An additional course is needed for graduation completion
- Scholar failed to meet prerequisite for course
- Successful completion of accredited course during summer
- Administrative discretion (imbalance of class loads, loss of course due to availability, etc.)

LATE REGISTRATION AND ADD/DROP POLICIES

- Scholars registering late or wishing to change classes must do so in the first two weeks of the semester
- No classes may be added after the first two weeks of the semester with the exception of teacher requests
- All scholars who are on campus must be enrolled in a class; no scholar will be allowed to loiter at the school
- Scholars wishing to drop a class must do so within the first four weeks of the semester without penalty

EDUCATION AND CAREER ACTION PLAN

In accordance with Arizona Administrative Code R7-2-302-.05, effective for the 2013 graduation class each scholar in grades 9-12 will participate in the development of an individual Education and Career Action Plan (ECAP). The ECAP will encompass each scholar's high school graduation plan, post-secondary education opportunities (admissions requirements, applications, and financial assistance), and career aspirations in an effort to help each scholar reach their fullest potential. To ensure that each student is developing and progressing with his/her plan a *College Coach* is available and working with the scholars semi-annually.

ADMISSION TO COLLEGES AND UNIVERSITIES

Scholars planning to attend four-year colleges or universities should determine the entrance requirements of the particular school they wish to attend. Scholars applying to Arizona universities must meet the following general requirements:

- For unconditional admission, a student must rank in the top 25 percent of his/her graduating class, have an overall grade point average of 3.0 or higher, and have a minimum score of 22 on the ACT or 1040 on the SAT test, and complete the course requirements
- For conditional admission, a student must rank in the upper 50 percent his/her graduating class, have an overall minimum grade point average of 2.5 with an ACT score of 22 or an SAT score 1040.

GRADUATION REQUIRMENTS AND UNIVERSITY ADMISSION STANDARDS

The following table illustrates the course requirements for completion of a high school diploma at Heritage Academy, as well as recommendations for satisfying in-state university and college competencies. University and college competencies may vary by institution; therefore, scholars should carefully examine admission requirements in college catalogs and specific college websites. Scholars should consult with parents and school advisors in regards to course selections and credits.

In addition to meeting the general graduation requirements, scholars are also required to pass the core competencies of Arizona's Instrument to Measure Standards (AIMS) test.

Heritage Academy Curriculum	General Graduation Requirements	Honors Classes Available	Dual Enrollment Courses	In-State University / College Competencies
ENGLISH	4 credits	4	4	4 credits (composition and literature based)
MATH	4 credits	1	4	1 year each of: Algebra I, Geometry, Algebra II, and an advanced class where Algebra II is prerequisite
SCIENCE	4 credits Must complete 1 credit each of 3 different sciences. (Bio, Chemistry, Physics, Anatomy & Physiology)	2	4	3 credits 1 credit each of 3 different lab sciences selected from the following: Chemistry, Physics, or Biology, Earth Science
HISTORY	3 credits World His, Am His, Economics & Gov.		3	2 credits Am. Hist. and 1 other
FOREIGN LANG.	2 credits		4	2 credits 2 years of same language
FINE ARTS	2 credits			1 credit
PE	2 credits			
REQUIRED CORE COURSES	21 credits			16
ELECTIVE COURSES	5 credits			4
TOTAL REQUIRED	26 credits			20

STATE OF ARIZONA HIGH HONORS TUITION WAIVER SCHOLARSHIP

Graduates from an Arizona high school may be eligible for a 25 % in-state university tuition waiver. Additional information, qualifications, and scholarship criteria can be found at <http://www.azed.gov/endorsement-tuition-scholarship/> or by contacting the Arizona Department of Education.

QUALIFICATIONS (CLASS OF 2013 & BEYOND)

Students must have Arizona residency with lawful immigration status AND meet the following academic criteria:

Part 1 (Core Competency)

Complete all 16 Core Competency Courses by graduation with a B* or better or receive an acceptable score (*See Table I) on the Advance Placement (AP) or a 4 on the International Baccalaureate (IB) exam for that subject matter.

The **16 Core Competency Courses** as defined by the Arizona Board of Regents Tri-University Admission requirements are: 4 units English; 4 units Math; 3 units Lab Science; 2 units Social Science; 2 units Foreign Language; and 1 unit Fine Arts.

* A "C" in a weighted course (Honors or Advance Placement course) does not convert to a "B". The grade is as reflected on the student's transcript.

If a student receives a "C" in any unit of credit of a core course (weighted or unweighted), he/she must complete one of the following options to remain eligible: 1) Retake the unit of credit and receive a "B" or better; 2) Take an additional unit of credit in that subject matter and receive a "B" or better; 3) Receive an acceptable score (***See Table 1**) on the Advance Placement (AP) exam or a 4 on the International Baccalaureate (IB) exam for that subject area.

AND

Part 2 (GPA/Class Rank)

Students must meet at least one of the following academic requirements:

Option 1: GPA: A minimum **core** GPA of 3.50 in the 16 competency courses on an un-weighted 4.00 scale **OR** for those districts which use a 5.00 scale for IB/AP/Honors courses, an equivalent **core** GPA on a weighted scale that meets or exceeds the value in ***Table 2**.

Option 2: Class Rank: Student is in the top 5% of their high school graduating class.

AND

Part 3 (AIMS Exams)

Students must meet at least one of the following assessment options:

Option 1: EXCEED Standards on all 3 of the AIMS HS exams by the end of their junior year.

Option 2: EXCEED Standards on 2 of the AIMS exams and MEET Standards on 1 of the AIMS HS exams by the end of their junior year. Additionally, student would need to receive a minimum score of 3 on two Advanced Placement exams or a minimum score of 4 on two International Baccalaureate exams. AP/IB exams may be taken during the senior year.

AND

Part 4 (ACT/SAT1) Students must meet at least one of the following admissions test options and submit scores to the universities they apply to:

- **Option 1: At least 28 on the ACT test.**
- **Option 2: At least 1300 on the SAT1 test (critical reading & math, excluding essay).**

* Table 1 & Table 2 are on the website (www.azed.gov/asd/tuitionwaiver).

HIGH SCHOOL GRADUATION REQUIREMENT PLAN

4 Year - 26 Credit High School Graduation Program			
Student Name:		Student ID#:	
21 Core Curriculum Credits			
4 English Credits:			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Mathematics Credits:			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Science Credits: Three must contain a laboratory component			
<input type="checkbox"/> Conceptual Science	<input type="checkbox"/> Biology	<input type="checkbox"/>	<input type="checkbox"/>
3 credits History: Must include one credit in each World History & American History. Half credit each of Gov. and Economics			
<input type="checkbox"/> World History	<input type="checkbox"/> American/U.S. History	<input type="checkbox"/> U.S. Government/Constitution	<input type="checkbox"/> Economics
2 Foreign Language Credits: credits need to be two years of same language			
<input type="checkbox"/>	<input type="checkbox"/>		
2 Fine Arts Credits: Four Semester Courses			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Physical Education: Four Semester Courses			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Elective Credits:			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>		
Signatures		Passing Score on AIMS:	
Student:		<input type="checkbox"/> Reading <input type="checkbox"/> Math	
Parent/Guardian:		<input type="checkbox"/> Writing <input type="checkbox"/> Science*	
Date:		(* currently not a graduation requirement)	

POLICIES AND PROCEDURES

CREDITS

Course credits will be awarded on a semester basis. Scholars will be awarded one-half credit for demonstration of course mastery of 70% (grade of “C” or better) based on course performance standards. Junior High scholars are required to take four credit hours per semester. Freshman, sophomores, and juniors are required to take a minimum of three credit hours per semester. Seniors should review credits to ensure that all graduation requirements are fulfilled prior to registration and course selection.

All courses taught for credit will receive a letter grade or a pass/fail option. Grade point and the percentage used are listed below. **Please note, credit is awarded for a letter grade “C” or higher; scholars earning a letter grade of a “D” will receive zero credits for the class and may be required to repeat the course.**

Grade Percent	Letter Grade	Quality Points	Grade Percent	Letter Grade	Quality Points
97 & above	A+	4.33	77-79	C+	2.33
93-96	A	4.00	73-76	C	2.00
90-92	A-	3.67	70-72	C-	1.67
87-89	B+	3.33	67-69	D+	1.33
83-86	B	3.00	63-66	D	1.00
80-82	B-	2.67	60-62	D-	0.67

REPEATING A COURSE

High School scholars failing a core class will be required to retake the course prior to advancing to the next course. A student who fails a required class must make up the class at a time and place other than during the regular school year. This will involve a summer school commitment, either at Heritage, if offered, or at another acceptable school. A student will not be allowed to register for the same class at Heritage during the regular school year again. If a student wishes to take the class from an acceptable on-line school, it must be done also during the summer months and not during the regular school time.

If the course is taken as a correspondence course, the scholar will need to complete the [Permission to Substitute a Class](#) form and seek approval from the appropriate teacher, department chair, and Heritage Administrator prior to enrolling in correspondence course.

Junior High scholars failing one or more core courses in an academic year will be required to repeat the entire grade. Summer school make-up classes will not apply to seventh and eighth grade students.

In nearly every case, a student fails a class because of not doing the required work. Students will want to seriously consider the consequences of not doing the required work during the regular school semester/year. It is much easier to do the work when assigned than to choose not to do the work and then have to make it up during the summer. Summer school classes cost money and take time from family and vacation time.

TRANSFERABILITY OF CREDITS

Transferability of credits from other educational institutions is not automatic. Transfer credits will be evaluated in based on official transcripts to determine whether a course will be accepted as a core or elective course.

EXTRACURRICULAR ELIGIBILITY

Scholars are encouraged to participate in one or more extracurricular activities. Participation in extracurricular activities and athletics is considered a privilege. Therefore, all scholars will be held to the following academic eligibility policy in order to participate in athletics, musicals/plays, concerts, dance performances, school trips, and clubs:

- Scholars must maintain a minimum grade of C- (70%) the week of event to participate
- All associated fees and balances must be paid in full
- Scholars participating in athletics must have completed and have on file with athletic director:
 - [Parent Consent and Emergency Contact Information Form](#)
 - [Athletic Participation and Fee Form](#)
 - [Transportation Permission Form](#)
 - Current physical examination form completed by an MD or DO

7TH AND 8TH GRADE EDUCATION PROGRAM

Junior High courses at Heritage Academy are designed to assist the scholars in meeting and exceeding the basic requirements in English, History, Math and Science before progressing on to the high school curriculum. We encourage all of our scholars to strive for excellence, so that the foundation that is laid in junior high becomes a stepping stone to further success. In order to assist our scholars in this pursuit, we offer classes in classical languages, reading, and writing to supplement the basic course work.

CLASSICAL LANGUAGES

Latin I

All junior high scholars will be enrolled in a Latin course in which they will be introduced to the great classical language of Latin. Scholars will learn why so much emphasis was placed on this language by the Founding Fathers. They will learn how Latin can improve their knowledge of English, improve SAT scores, and act as a springboard into the learning of other Foreign Languages (especially French and Spanish), Math, Science, Medicine, Literature and many other subjects. Scholars will learn the alphabet, vocabulary, roots and other components of this language. This course will prepare scholars to read, write and understand this great language.

Latin II: A brief review of Latin I and then second year skills such as translating stories, poems and passages will be added

MATHEMATICS

Each student is placed in a math class based on the score of their entrance placement exam. On the first day of class, another assessment is given to help determine if the placement is the right place for the student. If a change is recommended, scholars and parents are contacted and schedules are changed. We do our best to place the scholars in the math class that is most appropriate to their individual skill level. If parents or scholars feel the placement is not a good fit, feel free to contact the teacher. Jr. High level math courses are as follows:

GENERAL MATH

This is the 7th grade math class. The curriculum is based on the AZ state **7th grade** math standards found at <http://www.azed.gov/azccrs/mathstandards/>. The course includes a study of various graphic displays including stem and leaf plots and scatterplots, linear functions, solving multi-step equations, geometry and integers. For sample questions and tutorials, please visit McDougal Littell's website at www.classzone.com.

Requirements: Scientific calculator
Textbook: McDougal Littell, *Math Course 2*

PRE-ALGEBRA

This course is for 7th and 8th grade scholars. The curriculum is based on the AZ state math standards for **both 7th and 8th grade**. These can be found at <http://www.azed.gov/azccrs/mathstandards/>. The course includes a study of various graphic displays including box and whisker plots and scatterplots, linear functions, solving multi-step equations, geometry and integers. For sample questions and tutorials, please visit McDougal Littell's website at www.classzone.com.

Requirements: Scientific calculator
Textbook: McDougal Littell, *Pre-Algebra*

READING AND WRITING

All 7th grade scholars who do not pass the reading/writing Heritage Academy placement test will be enrolled in a Reading/Writing Skills Class, unless they have demonstrated proficiency in a Heritage Academy reading/writing summer school class. All 7th and 8th graders will be enrolled in yearly English classes, and all 8th graders will be enrolled in a one semester class, Library Science, in addition to the regular English class. Scholars will focus on improving skills in research and writing in Library Science.

7th and 8th grade English classes offer challenging curriculums focused on literature, grammar, speaking, and writing skills. The studies of classic literature from a variety of genres include critical thinking and follow up writing experiences. The composition program emphasizes writing as a process: prewriting, rough drafts, revising, editing, and publishing of final copies.

Scholars will write friendly and business letters, five-paragraph expository essays, literary analysis essays, personal narrative essays, creative narrative essays, and persuasive essays. Writing is scored according to a rubric based on traits of good writing, and scholars will learn how to critique their own writing. Scholars will also write responses to literature, nonfiction and poetry, and will write their own poetry. The focus in grammar is on parts of speech, spelling, punctuation, capitalization, and sentence structure.

ELECTIVE COURSES

All scholars are encouraged to expand and improve their talents. We encourage scholars to take an interest in and involve themselves in music, art and sports. **All 7th grade scholars** need to be enrolled in a choir or an instrumentals class; **all 8th grade scholars** need to be enrolled in an art, choir, or an instrumentals class. All scholars wishing to join the orchestra will audition with Band/Orchestra Director and will be placed according to skill level. Classes are available from beginning to advanced levels.

Scholars are also encouraged to develop their physical abilities. All junior high scholars are required to take at least one P.E. class each year. Heritage Academy offers P.E. classes and competitive team sports which include after school programs.

Girls' P.E. classes include: dance (fee required), Kenpo, and golf (fee required).

Girls' team sports include: volleyball (fee required), basketball (fee required), soccer (fee required), softball (fee required), cross country, track and field, and golf (fee required – non-refundable once semester starts). The team sports will involve league competition in the Charter Athletic Association (CAA).

Boys' P.E. classes include: Kenpo, fitness, and golf (fee required). Boys' team sports include: flag football (fee required), cross country, basketball** (fee required), baseball (fee required), soccer (fee required), track and field, tennis (fee required) and golf (fee required). Team sports will compete in the Charter Athletic Association. (CAA) For course descriptions please see the Course Curriculum guide below.

JUNIOR HIGH COURSE ELECTIVES

Elective	Fee	Boys	Girls
Basketball	\$125	✓	✓
Baseball	\$125	✓	
Flag Football	\$125	✓	
Soccer	\$125	✓	✓
Volleyball	\$125	☐	✓

Elective	Fee	Boys	Girls
Golf**	\$125	✓	✓
Art	\$15	✓	✓
Dance	\$30		✓
Kenpo I-II	N/A	✓	✓
Fitness	N/A	✓	

All fees non-refundable after first 3 weeks of school

**** Golf non-refundable after first day of class**

RECOMMENDED 7TH AND 8TH GRADE COURSE SCHEDULE

The Junior High School student schedule is structured to provide an opportunity for scholars to be exposed to as many different subject areas as possible. Scholars may experiment with their talents and interests while in junior high and then pursue more advanced classes in those areas where they have developed special talents and interests during their High School years. The following is a typical schedule for junior high classes.

7th Grade	
1st Semester	2nd Semester
English	English
Math	Math
History	History
Science	Science
Classic Languages	Classic Languages
Reading or Elective	Reading or Elective
Choir, Band or Orchestra	Choir, Band or Orchestra
Computers, Drama, Art or Individual/Team Sports	Computers, Drama, Art or Individual/Team Sports

8th Grade	
1st Semester	2nd Semester
English	English
Math	Math
History	History
Science	Science
Classic Languages	Classic Languages
Keyboarding II	Keyboarding II
Art, Choir, Band or Orchestra	Art, Choir, Band, Orchestra or Elective
Computers, Drama or Individual/Team Sports	Kenpo, Dance, Fitness or Individual/Team Sports

JR. HIGH REQUIRED CLASSICAL READING LIST

Grade	School Year Reading
7	Math: <i>Math Magic</i> English: <i>Lion, Witch, and the Wardrobe, A Christmas Carol, Tom Sawyer, Miracle Worker, Shakespeare</i>
8	Math: <i>Math Magic</i> Science: <i>Environmental Overkill</i> English: <i>The Hobbit, Animal Farm, Shakespeare, Miracle Worker</i>

JR. HIGH CLASS SCHEDULE – MESA AND QEEN CREEK CAMPUS

Jr. High (7 & 8 Grades)

Day	Period 1	Period 2	Jr. High Lunch	Citizenship	Period 3	Period 4
A (Mon & Wed)	8:00 - 9:33	9:41 - 11:18	11:18 - 11:47	11:47 - 12:12	12:12-1:45	1:53 - 3:30
B (Tues & Thu)	8:00 - 9:33	9:41 - 11:18	11:18 - 11:47	11:47 - 12:12	12:12-1:45	1:53 - 3:30

JR. HIGH CLASS SCHEDULE – LAVEEN CAMPUS

Jr. High (7 & 8 Grades)

Day	Period 1	Period 2	Jr. High Lunch	Citizenship	Period 3	Period 4
A (Mon & Wed)	7:30 – 9:03	9:11 – 10:48	10:48 – 11:17	11:17 – 11:42	11:42–1:15	1:23-3:00
B (Tues & Thu)	7:30 – 9:03	9:41 - 11:18	10:48 – 11:17	11:17 – 11:42	11:42–1:15	1:23-3:00

HIGH SCHOOL CURRICULUM GUIDE

Heritage Academy offers one scholastic diploma; all scholars are required to earn 26 credits and meet the requirements listed below for graduation. Additionally, scholars are encouraged to achieve excellence beyond the requirements for graduation. Those who go beyond the requirements for graduation may enroll in one or more honors classes. Scholars who plan on attending a 4-year college or university should pay particular attention to the requirements below. Those attending a junior college will also need to satisfy all the entrance requirements of the Arizona universities, either in high school or at the junior college level before advancing.

Heritage Academy Curriculum	General Graduation Requirements	Honors Classes Available	Dual Enrollment Courses	In-State University / College Competencies
ENGLISH	4 credits	4	4	4 credits (composition and literature based)
MATH	4 credits	1	4	4 credits 1 year each of: Algebra I, Geometry, Algebra II, and an advanced class where Algebra II is prerequisite
SCIENCE	4 credits Must complete 1 credit each of 3 different sciences. (Bio, Chemistry, Physics, Anatomy & Physiology)	2	3	3 credits 1 credit each of 3 different lab sciences selected from the following: Chemistry, Physics, or Biology, Earth Science
HISTORY	3 credits World His, Am His, Economics & Gov.	1	1	2 credits Am. Hist. and 1 other
FOREIGN LANG.	2 credits	1	4	2 credits 2 years of same language
FINE ARTS	2 credits	Teacher Approval		1 credit
PE	2 credits	Teacher Approval		
REQUIRED CORE COURSES	21 credits			16
ELECTIVE COURSES	5 credits			4
TOTAL REQUIRED	26 credits			20

All high school scholars are encouraged to expand and improve their talents. We encourage scholars to take an interest in and involve themselves in music, art, and sports. All scholars wishing to join the orchestra or choir will audition and be placed according to skill level. Classes are available from beginning to advanced levels.

Scholars are also encouraged to develop their physical abilities. Team sports will compete in the Charter Athletic Association. (CAA) For course descriptions please see descriptions as listed in the High School Curriculum guide below.

HIGH SCHOOL COURSE ELECTIVES

Elective	Payment	Boys	Girls
Basketball*	\$125	✓	✓
Baseball	\$125	✓	
Tackle Football	\$400	✓	
Soccer	\$125	✓	✓
Volleyball	\$125		✓
Softball	\$125		✓
Bowling**	\$105	✓	✓
Swimming	\$100	✓	✓

Non-refundable after first 3 weeks of school

Elective	Payment	Boys	Girls
Golf**	\$100	✓	✓
Club Fitness	\$30		✓
Dance	\$25		✓
Ballet	\$25	✓	✓
Sr. Art	\$15	✓	✓
Digital Imaging	\$15	✓	✓
Adv Dig Imaging	\$15	✓	✓
Tennis	\$75	✓	✓

**Golf, Bowling, & Tennis are non-refundable after first day of attendance

Elective	Fee	Boys	Girls
Kenpo I-V	N/A	✓	✓
Fitness	N/A	✓	
Ballroom Dance I-III	N/A	✓	✓
Pilates	N/A	✓	✓
Weight Training	N/A	✓	✓
Physical Education	N/A	✓	✓

REQUIRED COURSES FOR GRADUATION

Listed below are the courses required of all scholars graduating from Heritage Academy. In addition to these required courses, scholars may take additional courses described in each department to achieve greater mastery and earn a certificate of distinction.

<u>Subject</u>	<u>Grade course is taken</u>	<u>Credits</u>
History – (3 credits required)		
World History	9 th	1
American History (Dual Enrollment option)	10 th or 11 th	1
Economics (Dual Enrollment option)	11 th or 12 th	.50
American Government	12 th	.50
English – (4 credits required)		
American Literature I	9 th	1
American Literature II	10 th	1
British Literature / World Literature	11 th and 12 th	1
ENG 101 / ENG 102 (Dual Enrollment option)	11 th and 12 th	1
Mathematics – (4 credits required)		
Algebra I	9 th	1
Geometry	10 th	1
Algebra II (Dual Enrollment option)	11 th	1
Pre-Calculus (Dual Enrollment option)	12 th	1
Science – (4 credits required)		
Conceptual Science (required)	9 th	1
Biology (required) (Dual Enrollment option)	10 th	1
Recommended Science Courses		
Chemistry (Dual Enrollment option)	11 th	1
Physics (Dual Enrollment option)	11 th -12 th	1
Anatomy (Dual Enrollment option)	11 th -12 th	1
Foreign Language – 2 credits required		
Must have 2 credits in the same language		
Fine Arts – 2 credits required		
9 th -12 th		
P.E./Health – 2 credits required		
9 th -12 th		

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

9th Grade	10th Grade	11th Grade	12th Grade
American Literature I	American Literature II	British or World Lit	World or British Lit
Geometry	Algebra II	Pre-Calculus	Calculus
Conceptual Science	Biology	Chemistry	Physics
World History	American History	American History (Dual Enrollment option)	Government
1st Year Foreign Language	2nd Year Foreign Language		

HIGH SCHOOL REQUIRED CLASSICAL READING

Grade	School Year Reading
9	<p>Math: <i>Mathematicians are People 2, Vol. 1</i>, (Algebra I, Selections)</p> <p>American Literature I: <i>The Crucible</i> by Arthur Miller, <i>Huckleberry Finn</i> by Mark Twain, <i>Shane</i> by Jack Schaefer, <i>Out of the Dust</i> by Karen Hesse, and <i>The Giver</i> by Lois Lowry</p> <p>History: <i>The Law</i></p>
10	<p>Math: Euclid, <i>Geometry</i> (Selections)</p> <p>American Literature II - <i>The Scarlet Letter</i> by Nathaniel Hawthorne, <i>To Kill a Mockingbird</i> by Harper Lee, <i>The Wave</i> by Todd Strasser, and <i>Tuesdays with Morrie</i> by Mitch Albom.</p>
11	<p>Math: Nichomachus, <i>Arithmetic</i> (Algebra II, Selections)</p> <p>French: <i>Le Petit Prince</i></p> <p>Brit Lit (Eng 11-12) <i>The Time Machine</i>, <i>Pride and Prejudice</i>, <i>Dr. Jekyll and Mr. Hyde</i>, <i>Shakespeare</i>, <i>Ivanhoe</i>, <i>Pygmalion</i>, <i>The Screwtape Letters</i></p> <p>World Lit (Eng 11-12): <i>The Odyssey</i>, <i>Les Miserables</i>, <i>The Count of Monte Cristo</i>, <i>Shakespeare</i>, <i>Hiroshima</i>, <i>A Doll's House</i>, <i>Cry the Beloved Country</i></p>
12	<p>Math: Einstein, <i>Relativity</i>, <i>The Tao of Physics</i> (Pre-Cal/Calculus, Selections)</p> <p>History: <i>The Five Thousand Year Leap</i>, <i>The Making of America</i>, <i>Selections from Blackstone</i>, <i>Locke</i>, <i>Montesquieu</i>, <i>Federalist papers Nos. 10, 45, 80</i></p> <p>Brit Lit (Eng 11-12) <i>The Time Machine</i>, <i>Pride and Prejudice</i>, <i>Dr. Jekyll and Mr. Hyde</i>, <i>Shakespeare</i>, <i>Ivanhoe</i>, <i>Pygmalion</i>, <i>The Screwtape Letters</i></p> <p>World Lit (Eng 11-12): <i>The Odyssey</i>, <i>Les Miserables</i>, <i>The Count of Monte Cristo</i>, <i>Shakespeare</i>, <i>Hiroshima</i>, <i>A Doll's House</i>, <i>Animal Farm</i>, <i>Cry the Beloved Country</i></p>

Many of these selections can be read during the summer, in preparation for school. We encourage parents to involve their children in summer reading of some of these books to increase their reading skills, to better prepare for school studies, and to lighten the load during the school year.

HIGH SCHOOL CLASS SCHEDULE - MESA AND QUEEN CREEK CAMPUS

High School (9 - 12 Grades)

Day	Period 1	Period 2	Citizenship	HS Lunch	Period 3	Period 4
A (Mon & Wed)	8:00 - 9:33	9:41 - 11:18	11:18 - 11:43	11:43 - 12:12	12:12 - 1:45	1:53 - 3:30
B (Tues & Thu)	8:00 - 9:33	9:41 - 11:18	11:18 - 11:43	11:43 - 12:12	12:12 - 1:45	1:53 - 3:30

HIGH SCHOOL CLASS SCHEDULE - LAVEEN CAMPUS

High School (9 - 12 Grades)

Day	Period 1	Period 2	Citizenship	HS Lunch	Period 3	Period 4
A (Mon & Wed)	7:30 - 9:03	9:11 - 10:48	10:48 - 11:17	11:17 - 11:42	11:42 - 1:15	1:23 - 3:00
B (Tues & Thu)	7:30 - 9:03	9:11 - 10:48	10:48 - 11:17	11:17 - 11:42	11:42 - 1:15	1:23 - 3:00

COURSE OFFERINGS

S = Semester Class (meets every other day)

Y = Yearlong Class (meets every other day)

B = Block Class (1 semester, 1 credit classes) Meets every day, counts as 2 classes

* = Required Class **M= Mesa Campus** **QC = Queen Creak Campus** **LV = Laveen Campus**

ENGLISH

Subject area goals:

- To introduce scholars to a variety of literary works, instilling in them a critical appreciation for great literature.
- To develop in scholars an ever-increasing proficiency in reading, analyzing, understanding and interpreting written works.
- To provide scholars with the skills necessary to express themselves in both written and oral communications.
- Scholars must complete 4 years of English.

HONORS DISTINCTION

Scholars seeking honors Distinction in English must register for the honors class sections and meet the following requirements:

- Complete all English classes with a cumulative GPA of at least 3.5.
- Read at least TEN (10) classics from the Heritage Academy Classics List. Books assigned for class work do not count towards the 10. The books on the list marked with an (*) will count towards this award. At least seven (7) out of the ten (10) need to be from the Literature category on the list.
- Meet with an English teacher for a discussion after each book is completed.
- Schedule a meeting with the English department in April of your senior year to discuss books and finalize distinction.

Note: **English classes for Juniors and Seniors will be offered in alternating years** World Literature will be offered in the 2014-2015 calendar school year, and British Literature will be offered in the 2014-2015 school year.

130 9TH GRADE ENGLISH COMPOSITION S – ½ CR (M, QC,)

This course will emphasize rhetoric and composition with a focus on understanding writing as a process. Writing projects will require scholars to engage in all parts of the writing process: planning, drafting, revising, and editing. Scholars will learn narrative,

persuasive, and research-based writing and will strengthen their writing skills by completing four in-depth writing projects.

131 AMERICAN LITERATURE I* S – ½ CR (M, QC, LV)

Scholars will focus on early American literature from the Indians & Puritans to the middle of the 19th century with an emphasis on defining parts of literature as well as identifying the movements that influenced these authors/poets in their time periods. Students will be challenged to analyze/interpret various novels, short stories, and poems through discussion and projects. The following classics will be studied: *The Crucible* by Arthur Miller, *Huckleberry Finn* by Mark Twain, *Shane* by Jack Schaefer, *Out of the Dust* by Karen Hesse, and *The Giver* by Lois Lowry
***9th Grade English Literature Class – One semester**
Prerequisite: None

167 HONORS AMERICAN LITERATURE I S – ½ CR (M, QC)

Accelerated 131 course scholars will be challenged to be more independent and be prepared to discuss the classics on a deeper level. Higher expectations and extra projects required.

9th Grade English Literature Class
Prerequisite: Teacher approval

140 10TH GRADE ENGLISH COMPOSITION S – ½ CR (M, QC)

This course will emphasize rhetoric and composition with a focus on expository writing and understanding the writing as a process. Scholars will learn narrative, informative, persuasive, and research-based writing. In addition to three writing projects, scholars will conclude this course by writing a research paper following MLA guidelines.

141 AMERICAN LITERATURE II* S – ½ CR
(M, QC)

An integrated language arts course focusing on 19th and 20th century authors/poets in American Literature. Students will develop organizational and group skills through projects and presentations. Evaluating literary elements and developing reading strategies will be accomplished through an in-depth study of the following classics: *The Scarlet Letter* by Nathaniel Hawthorne, *To Kill a Mockingbird* by Harper Lee, *The Wave* by Todd Strasser, and *Tuesdays with Morrie* by Mitch Albom.

***10th Grade English Literature Class – One semester**
Prerequisite: None

167B HONORS AMERICAN LITERATURE II S – ½ CR
(M, QC)

Accelerated 131B course scholars will be challenged to be more independent and be prepared to discuss the classics on a deeper level. Higher expectations and extra projects required.

10th Grade English Literature Class
Prerequisite: Teacher approval

133 BRITISH LITERATURE* Y – 1 CR
(M, QC)

An integrated language arts course focusing on a survey of British Literature studied in the context of the religious, social and political influences on the authors. Evaluation of literary elements and critical analysis through writing will be stressed as scholars study the following classics: *Ivanhoe* by Sir Walter Scott, *Pride and Prejudice* by Jane Austen, *Macbeth* by William Shakespeare, *The Time Machine* by H.G. Wells, *Dr. Jekyll and Mr. Hyde* by Robert Louis Stevenson, and *The Screwtape Letters* by C.S. Lewis.

***Offered every other year. (2015-2016)**
Prerequisite: American and Heroes in Literature

133 HONORS BRITISH LITERATURE* Y – 1 CR
(M, QC)

Accelerated 133 course students will be challenged to be more independent and be prepared to discuss the classics on a deeper level.

Offered every other year. (Current 2015-2016 year)
Prerequisite: Teacher approval

148 YEARBOOK/JOURNALISM Y - 1 CR
(M, QC, LV)

The course is designed to teach scholars the basic techniques of publication with computers, photography, layout, editing, graphic arts, writing and interviewing. The class will create and produce the yearbook.

Prerequisite: Teacher Recommendation

132 WORLD LITERATURE* Y – 1 CR
(M, QC, LV)

This course integrates writing for a variety of audiences with a study of literature. Universal themes in literature are explored in the fiction, non-fiction, poetry, drama and short stories of many cultures and many eras. Composition emphasizes research skills, multi-paragraph exposition, critical analysis and thesis development and defense.

***Offered every other year. (2014-2015)**
Prerequisite: American Literature

147 HONORS WORLD LITERATURE* Y – 1 CR
(M, QC)

Accelerated 132 course scholars will be challenged to be more independent and be prepared to discuss the classics on a deeper level.

***Offered every other year. (2014-2015)**
Prerequisite: Teacher recommendation

161 SCIENCE FICTION / FANTASY** S – ½ CR
(M, QC)

A study of Science fiction and fantasy designed to examine the social and political implications of the literature and the authors. Evaluation of literary elements, critical analysis, and creative writing will be included. Arizona State Standards will be met for 11th and 12th grades, including a research paper. The following books will be read: *Ender's Game* by Orson Scott Card, *I, Robot* by Isaac Asimov, and *A Wizard of Earth and Sea* by Ursula Le Guin. Short stories and poetry will be incorporated into the curriculum.

****The "Science Fiction/Fantasy" course is available to Juniors and Seniors, who may take this course to replace one semester of World Literature or British Literature. Sophomores can take this class IN ADDITION to their regular English class.**

DUAL ENROLLMENT ENGLISH

ENG101 FIRST-YEAR COMPOSITION S – ½ CR (M, QC)

Emphasis is placed on rhetoric and composition with a focus on expository writing and understanding writing as a process. This course focuses on establishing effective college-level writing strategies through four or more writing projects comprising at least 3,000 words in total.

Rio Salado College: 3 credits

Prerequisites: Appropriate writing placement test score, or a grade of C or better in ENG091 or ESL097.

May be substituted for either World or British Literature

ENG102 SECOND-YEAR COMPOSITION S – ½ CR (M, QC)

Emphasis is placed on rhetoric and composition with a focus on persuasive, research-based writing and understanding writing as a process. Scholars will develop advanced college-level writing strategies through three or more writing projects comprising at least 4,000 words in total.

Rio Salado College: 3 credits

Prerequisites: Grade of C or better in ENG101

May be substituted for either World or British Literature

ENG 111 TECH & PROFESSIONAL WRITING S – ½ CR (M, QC)

This course covers analyzing, planning, organizing, researching, and writing correspondence, reports, and presentations for specific work-related audiences, and includes integrating data and graphics into work-related documents and presentations.

Rio Salado College: 3 credits

Prerequisites: ENG101 with a grade of C, or better.

May be substituted for either World or British Literature

ENH 110 INTRODUCTION TO LITERATURE S – ½ CR (M, QC)

This course is an introduction to international literature through various forms of literary expression; e.g., poetry, drama, essay, biography, autobiography, short story, and novel. It provides a global overview of literature with special emphasis on diverse cultural contributions of women, African Americans, Asian Americans, Hispanic Americans, and Native Americans.

Rio Salado College: 3 credits

Prerequisite: Appropriate English Placement Test

May be substituted for either World or British Literature

FOREIGN LANGUAGES

Subject Area Goal:

- The scholar will competently use a foreign language for written and oral communication and demonstrate knowledge of appropriate cultural behaviors.
- Scholars must complete 2 years of studies in the same foreign language.

HONORS DISTINCTION

Scholars must complete three years of the same foreign language with a minimum GPA of a 3.5.

410 SPANISH I Y – 1 CR (M, QC, LV)

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

Prerequisites: None

411 SPANISH II Y – 1 CR (M, QC, LV)

This course provides further refinement of the skills acquired in the first year. Level 1 skills are reviewed and new skills are added in the areas of reading, writing and speaking. Appropriate cultural components are studied.

Prerequisites: Spanish I

412 SPANISH III Y – 1 CR (M, QC)

This elective is recommended for college bound scholars. It is required for distinction in Foreign Language. This course is taught mostly in Spanish and scholars will be required to speak, read, listen, and write in Spanish using correct grammar. Field trips and additional cultural activities will be a part of the curriculum. This course will include the reading and study of a classic in Spanish.

Prerequisites: Spanish 1 & 2 or teacher approval

420 FRENCH I Y – 1 CR (M, QC, LV)

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

421 FRENCH II **Y – 1 CR**
(M, QC, LV)

This course provides further refinement of the skills acquired in the first year. Level 1 skills are reviewed and new skills are added in the areas of reading, writing and speaking. Appropriate cultural components are studied.

**DUAL ENROLLMENT
FOREIGN LANGUAGE**

SPA 101 – ELEMENTARY SPANISH I **S – ½ CR**
(M, QC)

This course focuses on basic grammar, pronunciation and vocabulary of the Spanish language and includes the study of the Spanish-speaking cultures. Scholars practice listening, speaking, reading, and writing skills.

Rio Salado College: 4 credits

Prerequisites: Appropriate Placement Exam

SPA 102 ELEMENTARY SPANISH II **S – ½ CR**
(M, QC)

This course is continued study of grammar and vocabulary of the Spanish language and study of the Spanish-speaking cultures. Emphasis is placed on speaking, reading, and writing skills.

Rio Salado College: 4 credits

Prerequisites: SPA 101

SPA 201 INTERMEDIATE SPANISH I **Y -1 CR**
(M, QC)

Course is a one year course focusing on the continued study of essential Spanish grammar and Spanish-speaking cultures. Scholars continue practice and development of reading, writing, and speaking skills in Spanish. Class emphasis is on fluency and accuracy in spoken Spanish.

Rio Salado College: 4 credits

Prerequisites: SPA 102 or SPA 111

SPA 202 INTERMEDIATE SPANISH II **Y – 1CR**
(M, QC)

Course consists of review of grammar, continued development of Spanish language skills with continued study of the Spanish-speaking cultures.

Rio Salado College: 4 credits

Prerequisites: SPA 201

HISTORY

Subject Area Goals:

- To instill into the minds and hearts of the scholars knowledge and respect for the ideals and values of the great men and women of history, including those who founded the American nation.
- Scholars will also prepare to be ready to provide selfless service to their country to assist in restoring America’s greatness.
- Scholars must complete 3 years of history. Scholars must complete American History, World History, American Government/U.S. Constitution & Economics.

HONORS DISTINCTION

Honors history courses will be taught inclusive of the regular history classes. Scholars will be challenged to apply the principles learned in class. In addition scholars will complete the study of a classic in the area of study chosen.

043 WORLD HISTORY/GEOGRAPHY* **Y – 1 CR**
(M, QC)

This course will begin with the Fertile Crescent down to the beginning of written history. Scholars will then study migrations, geography, cultures and peoples from ancient, medieval, and modern history. Scholars will learn to compare, contrast and analyze civilizations and cultures with their own and draw lessons from the past which will aid them in knowing what Americans must do to enjoy lasting peace, prosperity and freedom. This course will provide the opportunity for discussion, debate and argument among and between the scholars themselves concerning the great ideas and principles of history. Discussion will be guided by reading from great Classics such as The Law by Bastiat.

044 AMERICAN/ARIZONA HISTORY* **Y – 1 CR**
(M, QC)

Having previously studied American History, including Arizona History and Economics in a sequential format, the high school scholars will now study it through the “eyes” of people who made significant contributions to the development of the nation. Ideas and concepts of government and human relations will be discussed and debated among and between the scholars. These discussions will be guided by reading selections from great classics such as Washington’s Farewell, and A Tale of Two Cities, by Dickens.

Prerequisite: None

**042 AMERICAN GOV / U.S. CONSTITUTION* S – ½ CR
(M, QC)**

Scholars will experience their own freedom trail by studying the lessons learned from Jamestown in 1607 through the Constitution in 1787. They will become familiar with the people we call the Founding Fathers and with the 28 principles of liberty, which helped change the direction of the world. Scholars will learn how the trials, efforts, failures and eventual triumphs of the Founders make them true American heroes.

This course also includes the study of the substance and meaning of the U.S. Constitution in its original form together with the amendments since added. The course emphasizes original intent by familiarizing scholars with the Founders' own words and explanations as to why each principle, phrase or sentence was included in the document. Departures from original intent and meaning will also be reviewed.

In conjunction with American Government this course will integrate the study of economics. Focus will be on the choices that individuals and societies make in the production, distribution and consumption of goods and services. Scholars will learn when these choices are made in an atmosphere of freedom, with a minimum of government involvement in the marketplace, prosperity results.

Prerequisite: American History & World History

**045 HEALING OF AMERICA S – ½ CR
(M, QC)**

This course is an elective class, which is open only to scholars by permission of the instructor. To be considered for this course, scholars must have scored well in prerequisite classes. Specific political issues will be researched and solutions developed based on correct principles. Scholars will come to know how returning to the Founders' original success formula may solve nearly every problem in America today. This class involves research into the variety of national & state constitutions. Parliamentary procedure will be studied & practiced. Scholars will participate in a very intense simulated constitutional convention experience.

Prerequisite: American Government

**ECONOMICS S – ½ CR
(M, QC)**

This course will give the students a greater understanding of economics ranging from the viewpoint of the individual consumer or small business owner to the global economy. The course will study the law of supply and demand, forms of business, labor unions, government finances and influence on the economy, money and prices, inflation and deflation cycles. The course relates history and politics to the study of economics.

Prerequisites: Junior or Seniors only

DUAL ENROLLMENT HISTORY

**HIS103 US HISTORY TO 1865 S – ½ CR
(M, QC)**

Covers the political, economic, and social development of United States from the Pre-Columbian period through the end of the Civil War (1865).

Rio Salado College: 3 credits

Prerequisites: 10th Grade or above

**HIS104 US HISTORY TO PRESENT S – ½ CR
(M, QC)**

Course studies the political, economic, and social development of United States from 1865 to the present.

Rio Salado College: 3 credits

Prerequisites: 10th Grade or above

**ECN 220 INTRODUCTION TO ECONOMICS S – ½ CR
(M, QC)**

The course covers microeconomic topics, macroeconomic topics, and international economics topics. Microeconomic topics include the nature and method of economics, supply and demand, utility, and supply and demand elasticities. Macroeconomic topics include the measurement of national output, factors that impact output, other means of measuring national wealth and economic well-being, unemployment, inflation, GDP accounting, and business cycles. While the focus of this course is primarily on the U.S. economy, some comparative economic analysis will be covered. In addition, select topics related to international trade and finance are introduced.

Prerequisites: Junior or Seniors only

Grand Canyon University: 4 credits

MATHEMATICS

Subject Area Goals:

- Scholars will learn to recognize, analyze and describe patterns and relationships in real numbers, algebraic functions, and geometric figures.
- Scholars will strengthen and deepen their number sense and their ability to organize their thoughts and use logic, both inductive and deductive to solve real world problems.
- Scholars must complete at least 4 years of math. Beginning with the class of 2013, all scholars must complete Algebra I, Geometry, Algebra II and either Pre-Calculus or Trigonometry.

HONORS DISTINCTION

Math honor scholars may choose to take pre-calculus and calculus, with a cumulative GPA of 3.5. These classes will include a greater study of theory and practical application, in addition to the study of classics in mathematics and completion of a project based on that classic.

630 ALGEBRA I* Y – 1 CR (M, QC, LV)

Scholars enrolled in this course will learn problem solving approaches, thinking and algebraic skills necessary for future mathematics courses and other disciplines. It includes a study of real number systems, linear equations, linear inequalities, exponential functions, quadratic equations, and statistics. Scholars must show mastery of Algebra 1 before advancing to Geometry.

Prerequisites: Pre-Algebra.

645 GEOMETRY* Y – 1 CR (M, QC, LV)

This course will review and extend the skills and topics mastered in Algebra 1. It places emphasis on plane geometry and also includes some solid and coordinate geometry. The course provides scholars with the opportunity to improve their understanding of spatial relationships, develop inductive and deductive thinking skills, improve problem solving skills in geometric settings, relate algebra to geometry, and develop a deep understanding of ratio and proportion concepts. A protractor, compass, ruler, and scientific calculator are required. Scholars must show mastery of Geometry before advancing to Algebra II.

Prerequisites: Algebra I. **Requirements:** Protractor, Ruler, Compass and Scientific Calculator.

650 ALGEBRA II* Y – 1 CR (M, QC, LV)

This course will cover topics in advanced Algebra and Geometry. Scholars will further their understanding of linear functions, quadratic equations, matrices, logarithms, rational and radical equations, statistics, and series and sequences. Scholars will discuss and solve real-life applications of the studied topics. Algebra II will help prepare scholars for college math courses and for Pre-Calculus.

Prerequisites: Algebra I.

Requirements: Graphing Calculator

652 TRIGONOMETRY Y – 1 CR (M, QC, LV)

In-depth student of Algebra II and Trigonometry for students not taking Calculus

Prerequisites: Algebra II.

Requirements: Graphing Calculator

651 PRE-CALCULUS Y – 1 CR (M, QC, LV)

An in-depth review and cross-course integration of all the topics covered in high school mathematics occupy the beginning of this course. Scholars will study polynomial and rational functions, logarithms, matrices, sequences and series, and analytic geometry. This course includes an in-depth study of trigonometric functions, identities, and vectors. The difficulty of Pre-Calculus is similar to that of a college freshman or sophomore math course. Scholars who excel in mathematics or are preparing to pursue an engineering or scientific degree in college are strongly encouraged to take this course. Successful completion of this course qualifies a student for a Math Distinction on his or her diploma. Graphing calculator required.

Prerequisites: Algebra II.

Requirements: Graphing Calculator

667 AP CALCULUS Y – 1 CR (M, QC)

In this course topics that were introduced in Pre-Calculus will be further defined. A definition of derivatives, integrals, three-dimensional coordinates, multi-variate systems, and alternate coordinate systems will be introduced and explored. This course will be very similar to a Calculus course offered in Maricopa Community Colleges and Arizona Universities. Scholars who pass the AP test may receive college credit, and it will cover many of the same topics as the college courses. Many

scholars that have taken Calculus say that it is a very satisfying course because all of the other courses of study in mathematics are harmonized together into one body of knowledge. This course could be considered a capstone course in High School mathematics.

Prerequisites: Pre-Calculus.

Requirements: Graphing Calculator

619 MATH LAB
(M, QC, LV)

S - 0 CR

Study lab for math; tutors are available to provide assistance.

DUAL ENROLLMENT MATHEMATICS

MAT151 COLLEGE ALGEBRA / FUNCTIONS Y – 1 CR
(M, QC)

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, modeling and solving real world problems.

Additional topics may include matrices, combinatorics, sequences and series, and conics.

Prerequisites: Grade of “C” or better in MAT120, or MAT121, or MAT122, or equivalent, or satisfactory score on District placement exam.

Course Notes: Scholars may receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187.

MAT182 PLANE TRIGONOMETRY
(M, QC)

Y – 1 CR

A study of measures of angles, properties of graphs of trigonometric functions, fundamental identities, addition and half-angle formulas, inverse trigonometric functions, solutions of trigonometric equations, complex numbers and properties of triangle solution.

Rio Salado College: 3 credits

Prerequisites: Grade of “C” of better in MAT150, or MAT151, or MAT152, or equivalent, or concurrent registration in MAT150, or MAT151, MAT152, or satisfactory score on District placement exam.

Requirements: Graphing Calculator

May receive credit for only one of the following: MAT182 or MAT187.

MAT187 PRE-CALCULUS
(M, QC)

Y – 1 CR

This pre-calculus course combines topics from college algebra and trigonometry in preparation for analytic geometry and calculus.

Rio Salado College: 3 credits

Prerequisites: Grade of B or better in MAT120, or MAT121, or MAT122, or equivalent, or satisfactory score on district placement exam.

Requirements: Graphing Calculator.

Course Note: Strongly recommended that scholars have some knowledge of trigonometry.

Scholars may receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187.

MAT 220 CALCULUS WITH ANALYTICAL GEOMETRY I
Y – 1 CR (M, QC)

Course topics include: limits, continuity, differential and integral calculus of functions of one variable.

Rio Salado College: 3 credits

Prerequisites: Grade of “C” or better in [MAT182 and (MAT150, MAT151 or MAT152)], or MAT187, or appropriate Math placement test score. **Course Notes:**

Scholars may receive credit for only one of the following: MAT220 or MAT221.

Requirements: Graphing Calculator

SCIENCE

Subject area goals:

- Scholars will discover the processes of the world around them and begin lifelong experiences in science.
- Scholars are required to take Conceptual Science, Biology plus two other science courses.
- College track scholars should have Biology, Chemistry and Physics.

HONORS DISTINCTION

Overall, scholars must have a 3.0 GPA or better.

Scholars must complete four science classes including three laboratory sciences (Biology, Chemistry, Physics or Anatomy) with a B or better in each class for a distinction. One of these courses needs to be an Honors course or a Dual Enrollment offering. Student wanting a distinction are required to take either the class Brief History of Time or Tech Science. In addition, scholars must read a science classic and write a 1000 word paper. See the list of science classics or talk to a science teacher.

212 CONCEPTUAL SCIENCE S – ½ CR
(M, QC, LV)

All ninth-graders take this conglomerate course which was specially designed by teachers at Heritage to prepare Heritage scholars for high school and college-level science classes. A strand of scientific inquiry through the OHEC model weaves throughout the course. Universal critical thinking and problem-solving strategies are also introduced and strengthened throughout the course. The Pre-Physics and Pre-Chemistry topics covered in this course are combined with Thermodynamics and Meteorology to form a foundation for better understanding of topics in Biology and Anatomy

Prerequisite: None

211 PHYSICAL SCIENCE S – ½ CR
(M, QC)

This course is designed to emphasize physics and chemistry principles that will help the students in future science classes or vocational programs. These principles will be taught through the context of astronomy, meteorology, geology and oceanography. This course is intended to enhance the students' science foundation before taking on more intense lab courses such as Physics, Chemistry or Anatomy or vocational programs.

Prerequisite: Completion of Biology and by teacher invitation only.

220 BIOLOGY Y – 1 CR
(M, QC, LV)

Scholars explore movement of energy through biological systems, population dynamics, cell structure and how nutrients are used by the cell for life, biomolecular structures including lipids, proteins, sugars and DNA/RNA, genetics and heredity, evolution, classification, plants and comparative anatomy (dissections). Daily activities reinforce learning including frequent group presentations to assess learning (modeling in biology) to report findings and reflect learning. This course includes topics of human reproduction and evolution.

Prerequisite: none

227 HONORS BIOLOGY Y – 1 CR
(M, QC)

Accelerated 220 course requirements taught through inquiry methods that expect scholars to take more control of their personal learning.

Prerequisite: Teacher Recommendation

230 CHEMISTRY Y – 1 CR
(M, QC, LV)

Energy changes affect matter through both physical (thermal and interaction energies) and chemical (breaking and reforming bonds). Scholars learn nomenclature, balancing chemical equations, mathematical processes including conversions, density, heat capacity, mole equations, stoichiometry, and gas equations. The process of scientific discovery is explored through the history of the atomic theory development and the men and women important to this process. Topics in acids, bases, reaction rates, nuclear chemistry, and basic organic chemistry are explored. Daily activities, labs and lab reports, as well as modeling techniques of drawing what the particles and energy are doing are used to obtain not only hands-on but minds-on understanding.

Prerequisite: Biology, Algebra 1

237 HONORS CHEMISTRY Y – 1 CR
(M, QC)

Course includes accelerated 230 Biology course requirements while going deeper into the history and scope of science in today's world.

Prerequisite: Biology, Algebra 1 & teacher recommendation

215 ANATOMY & PHYSIOLOGY Y – 1 CR
(M, QC)

Scholars explore the form and function of the systems of the human body. This course begins with a review of the atom and biochemistry, the course progresses from biomolecules, to cells, tissues, organs, and organ systems. Emphasis is placed on learning the bones, muscles, and all of the major organs. Systems reviewed include the skeletal, muscular, nervous, digestive, circulatory, respiratory, endocrine, and reproductive. Scholars will also learn study techniques for success in college courses related to allied health and science. This course includes a unit on human reproduction and utilizes both artistic and real images of the human body. Dissection is a significant part of the learning process and several dissections are performed during the course. **Perquisite BIO 220**

231 PHYSICS **Y – 1 CR**
(M, QC, LV)

This course is algebra-based Physics with a study of Kinematics, the reasons for, laws of and patterns in the motion of things. Common misconceptions are unraveled as scholars learn how to articulate a new and improved perspective of the physical world. New vocabulary as well as old vocabulary used in new ways helps scholars to communicate their findings in scientific inquiry activities. Forming and testing hypotheses by experimentation and analysis of the results are important parts of this process. Other components of Newton's mechanical universe are studied, including Momentum, Energy, Vectors, and Optics. Once scholars master the concepts of rectilinear motion, they are introduced to curves, satellites and orbits. A capstone unit on harmonic motion, waves, sound and light finishes this course of study.

Prerequisite: Biology & Algebra II
Recommended for Seniors (12th grade)

235 A BRIEF HISTORY OF TIME **S – ½ CR**
(M)

In this cross curricula class scholars read, ponder and discuss the science classic A Brief History of Time by Stephen Hawking. This class generates more questions than answers. Prepares scholars to think deeply, ask great questions and make connections between the different aspects of their lives.

Grades are based off of participation in discussion, reflective journals and projects as assigned by the teacher.

Prerequisite: Completion of 3 science classes.

DUAL ENROLLMENT SCIENCE COURSES

BIO 100 BIOLOGY CONCEPTS **Y – 1 CR**
(M, QC)

This is a full year introductory course covering basic principles and concepts of biology. Methods of scientific inquiry and behavior of matter and energy in biological systems are explored. Field trips may be required at scholars' expense.

Rio Salado College: 4 credits
Prerequisites: None

BIO 100 LABORATORY FOR BIOLOGY CONCEPTS

Lab is taken in conjunction with BIO 100

Prerequisites: None
Rio Salado College: 0 credits

CHM 130 FUNDAMENTAL CHEMISTRY **Y – 1 CR**
(M, QC)

A survey of the fundamentals of general chemistry. Emphasis on essential concepts and problem solving techniques. Basic principles of measurement, chemical bonding, structure and reactions, nomenclature, and the chemistry of acids and bases.

Rio Salado College: 3 credits
Prerequisites: None

CHM 130 FUNDAMENTAL CHEMISTRY LABORATORY

Lab is taken in conjunction with CHM 130

Prerequisites: None
Rio Salado College: 0 credits

PHY 111/PHY 112 – GENERAL PHYSICS **Y – 1 CR**
(M, QC)

This is a rigorous course, and the content is similar to a general Physics class at the college level. The year starts with a fast-paced section on kinematics, vectors, Newton's laws of motion, momentum, work, energy, rotational motion, gravity, electricity, harmonic motion, waves, sound and light. If time permits, a brief introduction to special and general relativity may be added at the end of the course. A graphing calculator will be needed for graphical analysis and to aid in calculations. Course includes study of motion, energy, and properties of matter.

Rio Salado College: 8 credits
Prerequisites: MAT182, or MAT 187, or one year high school Trigonometry or Algebra II, or Dept. Permission

COMPUTERS

820 COMPUTERS S – ½ CR (M, QC, LV)

Scholars will increase their word-processing skills and learn presentation skills. They will learn how to use the spreadsheet software (Excel) from Microsoft. They will learn to make computer slide type presentations utilizing animation, scanned photos and sound (Microsoft PowerPoint). Scholars will also use Internet and other resources to build interesting presentations. Specific individual or group assignments may be given to enhance technological skills. Scanners, digital cameras, printers and CD burners may be utilized in this class.

Prerequisite: Keyboard I or II

830 ADVANCED COMPUTERS S – ½ CR (M, QC)

Specific individual or group assignments will be given to enhance technological skills. Scholars will be exposed to computer parts, spreadsheets, and web page design. Scholars will build presentations using clipart, photos, videos, and Internet resources. Scholars will exhibit self-starting skills to initiate projects utilizing the latest technology.

Prerequisite: Teacher approval

DUAL ENROLLMENT COMPUTER SCIENCE COURSES

CIS105 SURVEY OF COMPUTER INFORMATION SYSTEMS S – ½ CR (M, QC)

This course is an 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, uses of application software and the Internet for efficient and effective problem solving as well as exploration of relevant emerging technologies.

Rio Salado College: 3 credits

Prerequisites: None.

BPC 135 WORD LEVEL I S – ½ CR (M, QC)

Using Word processing software to create and name files, edit text, format, and print a variety of documents.

Rio Salado College: 2 credits

Prerequisites: The ability to use a keyboard at a minimum of 24 wpm or permission of instructor

BPC 235DK WORD LEVEL II S – ½ CR (M, QC)

Using Microsoft Word processing software features such as math, columns, macros, styles, graphics, sort, outlines, and table of contents. **Rio Salado College: 2 credits**

Prerequisites: BPC135DK or permission of Instructor.

MUSIC / PERFORMING ARTS

565 SENIOR ART S – ½ CR (M, QC, LV)

Senior Art has required art projects that give the student a foundation in the elements and principles of art. It also allows for projects of choice in which the student can explore different art medias and art forms. Medias used are pencil, charcoal, pen and ink, scratch art, soft pastels, acrylic, watercolor, and block printing. Art history and culture are incorporated extensively.

Prerequisite: None

Supplies Fee: \$15

ORCHESTRA/ BAND

110 SYMPHONY ORCHESTRA Y – 1 CR (M, QC)

Audition required (audition requirements below).

Maximum of 65 students consisting of winds, brass, percussion, and strings. This class performs HS level music. Students will perform classical repertoire. Students will work with clinicians/professional artists, attend professional concerts, and perform in the community and at festivals. 30 min/day practice required (5 days/week). Playing tests, written assignments, etc. will be given as necessary.

Students must commit to 1 year enrollment.

All students required to purchase performance uniform.

Women's dress- \$64.50; Men's vest- \$28.50

315 CHAMBER ORCHESTRA Y – 1 CR
(M, QC)

Audition required (audition requirements below). Maximum of 25 students. This class performs very advanced HS level repertoire. Students will perform classical repertoire. Students will **tour**, work with clinicians/professional artists, attend professional concerts, and perform in the community and at festivals. Requirement to audition for Regionals/Solo & Ensemble. 30 min/day practice required (5 days/week). Playing tests, written assignments, etc. will be given as necessary.

Students must commit to 1 year enrollment.
All students required to purchase performance uniform.
Women’s dress- \$64.50; Men’s vest- \$28.50

320 CONCERT ORCHESTRA Y – 1 CR
(M, QC, LV)

Audition required. Maximum of 30 scholars. Scholars must have completed a Method Book 1 in a previous school or with a private teacher and must understand the basics of 1 octave scales and/or 1st position notes. Basic theory such as reading notes, rhythms, and basic musical terms is also required.
Students must commit to 1 year enrollment

330 CONCERT BAND Y – 1 CR
(M, QC, LV)

Audition required. Maximum of 30 scholars must have completed a Method Book 1 in a previous school or with a private teacher and must understand the basics of 1 octave scales and/or 1st position notes. Basic theory such as reading notes, rhythms, and basic musical terms is also required.
Students must commit to 1 year enrollment

331 PERCUSSION ENSEMBLE Y – 1 CR
(M, QC)

No Audition Required. This class is a percussion fundamentals class. Students will learn fundamentals of all percussion instruments plus the piano keyboard and drum set. 30 min/day practice required. **Students must commit to 1 year enrollment.** Concerts, uniforms are mandatory. Preference is given to students previously enrolled and desire to continue. Class size limited to 20 students. **Required class materials- stick bag with sticks/mallets - \$90 total**

332 INTERMEDIATE JAZZ Y – 1 CR
(M, QC)

Audition required (see audition requirements below). Maximum of 25 students consisting of winds, brass, percussion, bass, guitar, and piano. This course is for students who play at an intermediate level and are new to jazz music. Students will perform jazz, rock, and Latin styles. Students will work with clinicians/professional artists, attend professional concerts, and perform in the community and at festivals. 30 min/day practice required (5 days/week). Playing tests, written assignments, etc. will be given as necessary.
Students must commit to 1 year enrollment.

333 JAZZ ENSEMBLE Y – 1 CR
(M, QC)

Audition required (see audition requirements below). Maximum of 25 students consisting of winds, brass, percussion, bass, guitar, and piano. This course is for students who perform at an advanced level and/or have had at least a 2 years of jazz experience. Students will perform jazz, rock, and Latin styles. Students will **tour**, work with clinicians/professional artists, attend professional concerts, and perform in the community and at festivals. Requirement to audition for Regionals/Solo & Ensemble. 30 min/day practice required (5 days/week). Playing tests, written assignments, etc. will be given as necessary.
Students must commit to 1 year enrollment.

CHOIR

343 WOMEN’S CHOIR S – ½ CR
(M, QC, LV)

7th and 8th grade girls. This class teaches good vocal technique, rhythm reading, note reading, and music interpretation. This class prepares students to sight-read and be an independent musician with the ability to read music, interpret music cues, sing in different styles of choral and vocal music, and develop skills needed to continue in music development. This choir has 4 concerts a year and attends Festival in the Spring. Concert black is required for all performances which includes a long black dress or skirt, a tope that covers the shoulders, black closed-toed shoes, and black hose/nylons. (dresses that can be used up through high school are available for purchase through the choral program).
Prerequisite: None

346 MEN'S CHOIR S – ½ CR
(M, QC, LV)

7th and 8th grade boys. This class teaches good vocal technique, rhythm reading, note reading, and music interpretation. This class prepares students to sight-read and be an independent musician with the ability to read music, interpret music cues, sing in different styles of choral and vocal music, and develop skills needed to continue in music development. This choir has 4 concerts a year and attends Festival in the Spring. For concert attire - Black dress pants, a white long-sleeved collared shirt, ALL black shoes, black socks, and a long black tie is required.

Prerequisite: None

342 CHORALE CHOIR S – ½ CR
(M, QC)

This choir is open to any High School student and does not require an audition. This class teaches good vocal technique, rhythm reading, note reading, and music interpretation. This class prepares students to sight-read and be an independent musician with the ability to read music, interpret music cues, sing in different styles of choral and vocal music, and develop skills needed to continue in music development. This class helps prep students to gain necessary skills needed to audition for Regional Choir or audition into Concert Choir and can be used as a stepping stool to prepare for singing more demanding music. This choir attends Festival in Fall and has 4 concerts a year. Concert attire is required. Dresses are \$68.00 for ladies and vests are \$28.50 (students are in charge of providing additional items such as pants, white shirt, shoes, etc.). To help keep costs down these items can later be sold back to the program for as close to original price as possible.

Prerequisite: None

344 CONCERT CHOIR S – ½ CR
(M, QC, LV)

This Choir is an Auditioned Choir and is a yearlong commitment. Auditions are the end of May or by appointment during the 1st week of school in August. Students will not be allowed to drop the class halfway through the year. Depending on the situation, a student might be invited to audition at semester. Auditions will test sight reading skills, vocal production, tone quality and ability to follow musical direction. Students are admitted according

to the needs and balance of the choir. Students learn good vocal technique, practice rhythm reading, note reading, and music interpretation. This class prepares students to sight-read and be an independent musician with the ability to read music, interpret music cues, sing in different styles of choral and vocal music, and develop skills needed to continue in music development. This choir attends Festival in Fall and has 4 concerts a year. Concert attire is required. Dresses are \$68.00 for ladies and vests are \$28.50 (students are in charge of providing additional items such as pants, white shirt, shoes, etc.). To help keep costs down these items can later be sold back to the program for as close to original price as possible.

Prerequisite: Audition Required

DANCE / BALLET

501- BEGINNING DANCE S – ½ CR
(M, QC, LV)

This class will answer the question, "What is dance?" with special focus on basic dance technique, terminology, history and overall purpose. Various dance styles will be introduced and explored along with the elements of dance: time, space and energy. Specific dance attire required.

Prerequisite: None (For scholars without previous dance experience.)

Performance Fee: \$25.00 per semester

502- INTERMEDIATE DANCE S – ½ CR
(M, QC, LV)

This class builds upon fundamentals gained in Beginning Dance and answers the question, "Why do we dance?" Practical and written exams are given to prove dancers' knowledge and technical skill. Choreographic principles are introduced and practiced. Specific dance attire required.

Prerequisite: At least two semesters of Beginning Dance and/or Teacher approval

Performance Fee: \$25.00 per semester

503- PRE ADVANCED DANCE S – ½ CR
(M, QC)

This class continues to build upon the knowledge gained in both Beginning and Intermediate Dance with particular emphasis on technique and performance quality. Practical and written exams are given to prove dancers' knowledge and technical skill. Specific dance attire required.

Prerequisite: At least four semesters of Intermediate Dance and/or Teacher approval
Performance Fee: \$25.00 per semester

504- ADVANCED DANCE **S – ½ CR**
(M, QC)

This class is by assignment only. Dancers are selected after reaching the necessary technical level, and by demonstrating a strong work ethic, good attitude, and passion for dance. Introductions are given to the basic principles of dance kinesiology, somatotyping, and injury prevention. Dancers explore the question, "What does dance mean to you?" through further practice of choreographic principles. Practical exams are given to prove dancers' knowledge and technical skill. Specific dance attire required.

Prerequisite: Teacher approval only
Performance Fee: \$25.00 per semester

506 LE PREMIER BALLET (LEVEL I) **S – ½ CR**
(M, QC)

Le Premier Ballet (Level I) is for dancers who want to strengthen their foundational technique in ballet. This class will help dancers succeed in any form of dance they choose to pursue, which may include: modern, jazz, hip hop, ballroom and theatrical dance. This class can also create a strong base of flexibility, strength and control for students competing in sports or the martial arts. Students who take this class will work on their basic posture, turnout, extension and balance. The structure of the class will strictly follow the basic layout of classical ballet, which starts with exercises at the ballet barre (such as pliés, tendus, rond de jambes,...etc) and leads into center work (such as tendus in center, pirouettes, petite allegro, grand allegro,...etc).

Prerequisite: Prior dance experience and/or teacher approval.
Performance fee may be required.

507 LE PREMIER BALLET (LEVEL II) **S – ½ CR**
(M, QC)

Le Deuxième Ballet (Level II) is for serious dancers who want to reach a higher level of ballet performance and professionalism. Students in this class will continue to strengthen their basic posture, turn out, extension and balance, but will be pushed to master more complex and challenging combinations. Students will also be required to learn and perform a variation from a leading ballet in front of their classmates. The structure of the class will

strictly follow the layout of a traditional classical ballet class, which includes barre and center.
Prerequisites: Minimum one year of ballet training and must have instructor approval.
Performance fee may be required.

DISTINCTION IN BALLROOM DANCE

Attend five outside of Class Ballroom Dance Activities in one semester (instead of what is required in class). Write a four-page research paper on a Ballroom Dance related subject approved by teacher (instead of the one required in class). Teach three step patterns in one semester to the class under the observation of the teacher. Take four semesters of Ballroom with at least one of them being Ballroom II. Choreograph and perform a "solo" (you and a partner) at the Ballroom Dance Showcase.

525 BALLROOM DANCE **S – ½ CR**
(M, QC, LV)

This class is designed to introduce the student to the basics of several popular social dances: Waltz, Foxtrot, Tango, Swing, Cha-Cha, Salsa, and Merengue. The student will learn to both lead and follow the basics in each dance and will be tested on both. There is one written assignment, one outside class activity and one required performance. To enhance the social skills they are learning through dance, basic etiquette for social interaction will be covered.

Prerequisite: None.
Performance fee may be required

526 BALLROOM DANCE II **S – ½ CR**
(M, QC)

This class introduces the student to the basics of several popular social dances: New York Hustle, West Coast Swing, Night Club Two Step, Samba, Lindy Hop, Viennese Waltz, and Argentine Tango. The student will learn to both lead and follow the basics in each dance and will be tested on both. There is one written assignment, two outside class activities and one required performance. The pace and skill level will be higher than that of Ballroom I.
Prerequisite: Teacher approval.
Performance fee may be required.

727 BALLROOM DANCE III S – ½ CR
(M, QC)

This class is an advanced ballroom class with a focus on technique and higher level dance patterns. It is for scholars with a serious interest in Ballroom Dance. Enrollment will be limited.

Prerequisite: Audition Required.

PERFORMANCE FEE MAY BE REQUIRED.
DRAMA / PERFORMANCE

DRAMA/PERFORMANCE DISTINCTION

“Drama Distinction” will be awarded to those graduating seniors who have completed the following requirements:

- 3 semesters of Drama classes, with at least one of those being Honors Drama
- No grade lower than A- in any drama class
- Participation in at least one school play; must audition for minimum of one musical
- Completion of at least one semester of Stage Craft class with no grade lower than A-.
- Reading of the book “Respect For Acting” by Uta Hagen, and a discussion with Mr. Helmbold about the book. Scholars may be asked to write an essay on various aspects of the book.

530 HEROES OF FILM S – ½ CR
(M, QC)

“*Heroes of Film*” explores the origin, history and cultural impact of American film; from the early Silent Era, to the tumultuous 60's and beyond. In this course we will examine the character of the film heroes we have come to know, and discuss the esthetic value of this rich medium. This course is open to high school students, only.

Prerequisite: High School students only. Priority will be given to juniors and seniors.

534 DRAMA FUNDAMENTALS S – ½ CR
(M, QC, LV)

Included is a brief study of the history of theatre from the ancient Greeks through the Renaissance and contemporary theatre. One play by William Shakespeare may be read and studied each semester. Drama scholars will perform scenes and monologues, improvisation and pantomime. Focus will be given to the “actor’s instrument”, developing stage technique and basic performance skills.

Prerequisite: None

537 HONORS DRAMA S – ½ CR
(M, QC)

Honors Drama scholars will be challenged to excel in all facets of theater. Scholars will perform scenes and monologues from classic plays, and scholars might rehearse and perform in a full-length play. The craft of acting will be studied in depth. A classic film will be viewed and analyzed. A classic play may be studied during the semester.

Prerequisite: Must be in 11th or 12th grade, with at least one semester of Drama Fundamentals with a grade of A- or better. Graduating seniors will have priority.

538 STAGE CRAFT S – ½ CR
(M, QC)

This class will cover most aspects of the technical side of a stage production, including set design and construction, lighting, sound, backstage crew, curtain operation, stage management, etc.

Prerequisite: High School students only

PHYSICAL EDUCATION

Subject Area Goals:

- Scholars will learn to enjoy and understand the importance of maintaining a physically active lifestyle.
- Scholars will improve physical skills, learn the associated rules and etiquette, and learn the importance of cooperation and teamwork.

*** Some PE classes have fees that accompany them. ECA Tax credit money may be used to pay for PE class fees**

701 KENPO I S – ½ CR
(M, QC, LV)

This course is the first step in the Duke Kenpo System. This system is structured from Mr. Duke’s years of training in the martial arts of: Kenpo, Hakutsuru, Kobudo and Kali. The scholar is introduced to the protocol and discipline to foster respect and insure safety. The physical portion consists of learning basic skills including blocks, strikes and stances. These are then incorporated into eleven basic situational self- defense techniques designed to thwart common everyday attacks. The successful completion of a written and physical examination will earn the scholar a yellow belt.

Prerequisite: None.

702 KENPO II S – ½ CR
(M, QC)

This course is a continuation of the Kenpo 1 course with more emphasis placed on practical application of previous learned basic skills. Self-defense techniques are moved to a more physical level. Twenty-eight additional self- defense techniques are introduced, bringing the responsible number to thirty-nine. Scholars will be introduced to self-defense against grabs, hugs, locks, chokes, tackles, and basics of ground defense. The scholar must take two semesters to complete the course. Upon completion of this beginning course the scholar can earn orange and purple belts.

Prerequisite: Successful completion of Kenpo 1.

703 KENPO III S – ½ CR
(M, QC)

The scholar will be introduced to an additional twenty-three self- defense techniques against punches, kicks and combinations; bringing the responsible number to sixty-two. Additionally the concept of the “Technique line under stress” is introduced. The scholar must take two semesters to complete this intermediate course. The completed course can earn the scholar blue and green belts.

Prerequisite: Successful completion of Kenpo I & II, Purple Belt; 9th grade & above with teacher approval.

704 ADVANCED KENPO S – ½ CR
(M)

The scholar will be introduced to an additional eighteen self-defense techniques. The scholar will learn to defend against: club, knife, gun, and more intense ground defense techniques. This brings the responsible number to eighty. Scholars will begin to help assist in the instruction. Teaching ensures that the scholars are assimilating the information and brings forth leadership capabilities. To complete this course the scholar will need to take two semesters, be 16 years of age and pass a written, oral and physical exam. Upon completion of the course the scholar can earn the brown and black belts.

Prerequisite: Successful completion of Kenpo 1-3, Green Belt; 10th grade and above with teacher approval.

705 EXPERT KENPO V S – ½ CR
(M)

The scholar will be introduced to the equation formula and eleven black belt extensions. He/she will learn additional techniques against the club,

knife and ground defense. To complete this course the scholar will need to take two semesters, be 17 years of age and pass a written, oral and physical exam. Upon completion of the expert course the scholar can earn the rank of 1st Degree Black Belt.

Prerequisite: Successful completion of Kenpo 1-4, Black Belt; 11th grade and above with teacher approval.

709 CLUB FITNESS S – ½ CR
(M, QC, LV)

This class offers an introduction to a variety of classes such as, Cardio Sculpt, Boot Camp, Hip Hop, Tae Box, Circuit, Step, Hi-Low, Ball, Yoga and Pilates. Classes will be held at the YMCA as well as at Heritage Academy.

Required Fee: \$30

711 PILATES CLASS S – ½ CR
(M, QC)

Mat Pilates is a total body fitness program with a focus on developing strength through the core of the body. Results will include improved posture, increased lung capacity, and strong muscles.

Emphasis on all around, complete fitness supports a variety of fitness goals, from building strength to increasing flexibility and coordination. Work will be performed on a mat with minimal simple resistance training equipment.

No Fee.

750 P.E. S – ½ CR
(M, QC, LV)

This class emphasizes physical fitness through a program involving individual or team exercises. This class is for those who have an interest in playing various sports. The class will focus primarily on volleyball, softball, soccer, and flag football.

Prerequisite: None. No Fee.

755 WEIGHT TRAINING S – ½ CR
(M, LV)

This class offers scholars an opportunity to improve their strength and basic athletic conditioning. Scholars and teacher will work together to fit the individual’s needs.

Prerequisite: None. No Fee.

INDIVIDUAL SPORTS

The following are individual sports and may be taken for fun or to compete against other schools

751 BOWLING S – ½ CR
(M)

This class is designed to help scholars develop proper technique and form. Scholars may have opportunity to compete against other schools.

Prerequisite: None

Required Fee: \$105

(non-refundable once the semester begins)

753 TENNIS S – ½ CR
(M)

This class is for scholars interested in learning and improving their tennis skills. They will have an opportunity to test their skills in competition.

Prerequisite: High School Only

Required Fee: \$75.00

(non-refundable once the semester begins)

754 GOLF S – ½ CR
(M, LV)

This class is for those with an interest in learning and improving their golf skills. Scholars will receive instruction and have an opportunity to test their skills. Lessons will be at the driving range and players will play every Friday on the golf course. The top five players may compete against other teams and schools.

Prerequisite: Teacher approval

Required Fee: \$100

(non-refundable once the semester begins)

760 SWIMMING S – ½ CR
(M, LV)

This course is designed to help students develop skills useful or necessary in an aquatic environment. Focus will be on swimming and competitive strokes; such as freestyle, butterfly, and so on. Course will also focus on water safety and lifesaving skills as related to aquatic safety.

Prerequisite: None.

Required Fee: \$100

(non-refundable once the semester begins)

TEAM SPORTS

The following sports are team sports and participants will compete in the CAA against other charter schools. Those scholars enrolling in any of the following will be enrolled in the last hour team sports class. All participants in team sports will be charged the fee listed for each team sport to cover the cost of the facilities and referees.

ECA Tax Credits may be used to help cover sport class fee.

GIRL'S SCHEDULE

Fall sports classes include volleyball and basketball. Spring classes include basketball, softball and soccer.

Required Fee: Fees required (see course descriptions)

BOY'S SCHEDULE

Fall team sports classes include tackle football & basketball.

Spring classes include basketball, baseball and soccer.

Required Fee: Fees required (see course descriptions)

752 BOYS BASKETBALL Y – 1 CR
(M, QC, LV)

This class is planned for those scholars with a high level of interest and skill. The class provides training in fundamentals of basketball in addition to concepts of team play. Athletes will compete in the Charter Athletic Association (CAA) against other schools.

Prerequisite: Tryouts and Teacher approval

Required Fee: \$250 (Two-semester sport)

756 SOCCER S - ½ CR
(M, QC, LV)

This class is planned for those scholars with a high level of interest. This is a co-ed class; both boys and girls may participate. The class provides training in fundamentals of soccer, and prepares athletes for competition in the Charter Athletic Association

Prerequisite: Tryouts and Teacher approval

Required Fee: \$125

757 BASEBALL S – ½ CR
(M, QC, LV)

This class is planned for those scholars with a high level of interest and skill. The class provides training in fundamentals of baseball in addition to concepts of team play. Athletes will compete in the Charter Athletic Association (CAA) against other schools.

Prerequisite: Tryouts and Teacher approval
Required Fee: \$125

758 TACKLE FOOTBALL S – ½ CR
(M, QC, LV)

This class is planned for those scholars with a high level of interest and skill. Training will begin prior to the beginning of school; all interested scholars should contact a coach for full details. Athletes will compete in the Charter Athletic Association (CAA) and have an opportunity to compete against other teams and schools.

Prerequisite: Tryouts and Teacher approval
Required Fee: \$450
(Includes first semester of basketball)

761 GIRLS VOLLEYBALL S- ½ CR
(M, QC, LV)

This class is planned for those scholars with a high level of interest. The class provides training in fundamentals of volleyball, and prepares athletes for competition in the Charter Athletic Association.

Prerequisite: Tryouts and Teacher approval
Required Fee: \$125

762 GIRLS BASKETBALL S- ½ CR
(M, QC, LV)

This class is planned for those scholars with a high level of interest. The class provides training in fundamentals of basketball, and prepares athletes for competition in the Charter Athletic Association

Prerequisite: Tryouts and Teacher approval
Required Fee: \$250 (Two-semester sport)

763 GIRLS SOFTBALL S- ½ CR
(M, QC, LV)

This class is planned for those scholars with a high level of interest. The class provides training in fundamentals of softball, and prepares athletes for competition in the Charter Athletic Association

Prerequisite: Tryouts and Teacher approval
Required Fee: \$125

GENERAL ELECTIVE COURSES

715 DRIVERS EDUCATION S – ½ CR
(M, QC)

This class covers the classroom portion of the driver's education and does not provide any behind the wheel training. This course is aimed at the development of knowledge, skills and attitude necessary for performing as a competent vehicle operator.

Prerequisite: Must be 15 years and seven months old by the completion of the course.

740 RELEASE TIME S – 0 CR
(M, QC)

This class is for those scholars who are leaving campus to attend a program of religious instruction.

Prerequisite: None

778 DIGITAL IMAGING S- ½ CR
(M, QC)

In this class scholars learn the basics of how to use a consumer digital camera, adjusting settings, importing digital images to a computer, manipulation of the image using Adobe Photoshop, preparing images for print, and email and web usage. The scholars learn how to share images through the creation and use of a weblog using Dreamweaver to create simple webpages.

Except for a very few days all photos must be taken outside of class time. Class time is used for preparing images for print and online viewing.

Requirements: \$15 Fee and minimum of 3 megapixel camera

779 ADV. DIGITAL IMAGING S - ½ CR
(M, QC)

Accelerated 778 Digital Imaging

Prerequisite: Digital Imaging or teacher approval
Requirements: \$15 Fee and minimum of 3 megapixel camera

INDEPENDENT STUDY

911 SERVICE LEARNING TUTORING S – ½ CR (M, QC)

This is an independent study opportunity for scholars willing to volunteer time after the regular school hours to assist other scholars by tutoring a chosen subject. Scholars must commit a minimum of 4 hours per week to receive credit. This is an after school hours opportunity and does not need to be scheduled with the school class schedule.. The student will work under the direction of an assigned teacher. Scholars wishing to participate should apply through their guidance counselor or the administration.

****Maximum credit allowed = 1credit**

912 SPORTS MANAGEMENT S – ½ CR (M, QC)

This is an independent study opportunity for scholars wanting to assist one of the Heritage Academy sports teams. Duties may include scoring, keeping statistics, managing equipment, in addition to duties assigned by coaches. Scholars need to be in attendance at all games and functions as set forth by the coach. Student does not need to be enrolled in the class unless otherwise agreed.

****Maximum credit allowed = 1credit**

913 VIDEO & TECHNOLOGY AID S – ½ CR (M, QC)

This is an independent study opportunity for scholars with photography and video abilities and interests. Scholars will attend and videotape games in order to produce short highlight reels for daily viewing on the school monitors. Scholars will also produce individual and team highlight videos for presentation at the team banquet. Not required to be enrolled in the class.

****Maximum credit allowed = 1credit**

COLLEGE FAST TRACK PROGRAM – DUAL ENROLLMENT

This program will enable Heritage scholars to earn college credits while attending Heritage Academy. Scholars and families will see the following benefits:

1. Save time
 2. Save money
 3. Eliminate duplicate classes
 4. Progress at the right speed
 5. Better prepared for college
 6. Credits transfer to college/university*
- *verify with college/university accepting credits

What is Dual Enrollment?

Dual Enrollment is a program which enables scholars to earn college credit while attending high school. A Dual Enrollment course is a class currently taught at Heritage, which is now approved for college credit. Courses will be offered through partnerships with Rio Salado Community College and Grand Canyon University.

Who can participate?

- Scholars enrolled at Heritage grades 9-12
- Must pass Reading Placement Test by Rio Salado Community College or score with a PSAT > 92, SAT > 929, or ACT > 21, or have meet or exceeds on AIMS testing
- May need to take additional college placement exams depending on course(s)

Is there financial assistance?

Yes, some tuition assistance is available based on need through Rio Salado Community College and Grand Canyon University.

Contact the Rio Salado Financial Aid Office at 480-517-8310 for additional information.

Contact Grand Canyon University at 602-639-6808 for additional information.

How many credits can I earn?

That's up to you! An Associate's Degree typically requires 60 credits. If a scholar earns 15 credits per year for the four years in high school, an Associate Degree is achievable. This is a very aggressive goal, but more achievable by highly motivated scholars. Even taking a few college classes will give you a *fast start* into college.

How Do I Get Started?

Assess your college interests and the subjects you would like to study. Also study the graduation requirements for Heritage Academy. With this information, make a plan for each year of high school. Once you have identified your courses, work with your advisor or teacher to register for either Rio Salado Community College or Grand Canyon University depending on the course. Make arrangements with Rio Salado Community College to take placement exams.

DUAL ENROLLMENT CHECK LIST- RIO SALADO CC

****Student MUST complete ALL steps to receive dual enrollment credit****

Determine if Dual Enrollment Classes are the best fit for you

- Enroll in corresponding Heritage Dual Enrollment Course(s)**

- Obtain Maricopa Enterprise ID (MEID)/MCCCD ID**
 - Know Social Security Number
 - Log onto my.maricopa.edu and create user account
MEID User: _____
Password: _____
 - 8-digit College ID # 3 _ _ _ _ _

- Take Accuplacer Placement Exam**
 - Will need Photo ID and 8-Digit College ID #
 - PRINT and SAVE results

Rio Salado Class Registration / Enrollment

- Login to [Rio Salado Dual Enrollment](#)
 - Watch Instructional Video for [New](#) or [Returning](#) Scholars
 - Complete "[High School Registration Forms](#)"
 - Complete Registration Process
 - Enroll for both semesters (spring classes payments are not due until January)
 - Print "Dual Enrollment Packet" at end of registration process
 - Registration Request Summary
 - Designated Official Form
 - Payment Options
 - Copy of Pre-Approval Tuition letter if approved

- Return **ALL REQUIRED** documents to Heritage Academy by _____
 - Dual Enrollment Registration Packet**
 - Signed by both parent and student
 - Copy of Accuplacer test scores**
 - Proof of citizenship/legal residency** - A photo copy of either your driver's license/permit, birth certificate, or passport

- Make payment to Rio Salado – Deadline for payment is** _____

DUAL ENROLLMENT ADMISSION AND TESTING GUIDELINES

To enroll in a Dual Enrollment class, scholars must meet admission requirements or have completed the prerequisites for the course.

ENG101 and most math classes **require** an ACCUPLACER skills test:

1. Writing test for ENG101 course
2. Math test for math courses

To enroll in classes other than ENG 101 or math, scholars must have one of the following to qualify for admittance into the Dual Enrollment Program:

1. Preliminary Scholastic Aptitude Test (PSAT) composite score greater than 92
2. Scholastic Aptitude Test (SAT) composite score greater than 929
3. American College Test (ACT) composite score greater than 21
4. Arizona's Instrument to Measure Standards Test (AIMS) score of Meets or Exceeds on the Reading portion of the test.
5. Completed ACCUPLACER Reading placement skills test for courses other than ENG101 or math.

Most beginning classes require an admissions test score or qualifying placement score and advanced classes require the completion of prerequisite coursework.

General Placement Testing Information

- Assessment tests are provided at no charge to scholars.
- All testers **ARE REQUIRED** to present valid and current picture identification before testing. Valid forms of picture identification: School ID Card, Driver's License, State issued identification card, or Passport.
 - Rio Salado also requires that scholars' have an 8 digit Maricopa Student ID number before they can test. [Click here](#) for instructions on obtaining a Student ID number. If you get an error message, call the Rio Salado Registration Help Desk at (480) 517-8540. Tell them you need to be "Quick Admitted Only" and are experiencing problems obtaining your student numbers.

Testing at a Rio Salado Testing Center

Tempe: 2323 W 14th Street Tempe, AZ 85281 480-517-8000

Thomas: 3631 W Thomas Rd. Phoenix, AZ 85019 480-377-4300

DUAL ENROLLMENT COURSE OFFERINGS

ENGLISH

ENG101 FIRST-YEAR COMPOSITION S – ½ CR
(M, QC)

Emphasis is placed on rhetoric and composition with a focus on expository writing and understanding writing as a process. This course focuses on establishing effective college-level writing strategies through four or more writing projects comprising at least 3,000 words in total.

Rio Salado College: 3 credits

Prerequisites: Appropriate writing placement test score, or a grade of C or better in ENG091 or ESL097.

ENG102 SECOND-YEAR COMPOSITION S – ½ CR
(M, QC)

Emphasis is placed on rhetoric and composition with a focus on persuasive, research-based writing and understanding writing as a process. Scholars will develop advanced college-level writing strategies through three or more writing projects comprising at least 4,000 words in total.

Rio Salado College: 3 credits

Prerequisites: Grade of C or better in ENG101

ENG 111 TECH & PROFESSIONAL WRITING S – ½ CR
(M, QC)

This course covers analyzing, planning, organizing, researching, and writing correspondence, reports, and presentations for specific work-related audiences, and includes integrating data and graphics into work-related documents and presentations.

Rio Salado College: 3 credits

Prerequisites: ENG101 with a grade of C, or better.

ENH 110 INTRODUCTION TO LITERATURE S – ½ CR
(M, QC)

This course is an introduction to international literature through various forms of literary expression. It provides a global overview of literature with special emphasis on diverse cultural contributions of women, African Americans, Asian Americans, Hispanic Americans, and Native Americans.

Rio Salado College: 3 credits

Prerequisite: Appropriate English Placement Test

FOREIGN LANGUAGES

SPA 101 – ELEMENTARY SPANISH I S – ½ CR
(M, QC)

This course focuses on basic grammar, pronunciation and vocabulary of the Spanish language and includes the study of the Spanish-speaking cultures. Scholars practice listening, speaking, reading, and writing skills.

Rio Salado College: 4 credits

Prerequisites: Appropriate Placement Exam

SPA 102 ELEMENTARY SPANISH II S – ½ CR
(M, QC)

This course is continued study of grammar and vocabulary of the Spanish language and study of the Spanish-speaking cultures. Emphasis is placed on speaking, reading, and writing skills.

Rio Salado College: 4 credits

Prerequisites: SPA 101

SPA 201 INTERMEDIATE SPANISH I S – ½ CR
(M, QC)

Course is a continued study of essential Spanish grammar and Spanish-speaking cultures. Scholars continue practice and development of reading, writing, and speaking skills in Spanish. Class emphasis is on fluency and accuracy in spoken Spanish.

Rio Salado College: 4 credits

Prerequisites: SPA 102 or SPA 111

SPA 202 INTERMEDIATE SPANISH II S – ½ CR
(M, QC)

Course consists of review of grammar, continued development of Spanish language skills with continued study of the Spanish-speaking cultures.

Rio Salado College: 4 credits

Prerequisites: SPA 201

MATHEMATICS

MAT151 COLLEGE ALGEBRA / FUNCTIONS Y – 1 CR (M, QC, LV)

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, modeling and solving real world problems. Additional topics may include matrices, combinatorics, sequences and series, and conics.

Rio Salado College: 4 credits

Prerequisites: Grade of “C” or better in MAT120, or MAT121, or MAT122, or equivalent, or satisfactory score on District placement exam.

Course Notes: Scholars may receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187.

MAT182 PLANE TRIGONOMETRY Y – 1 CR (M, QC)

A study of measures of angles, properties of graphs of trigonometric functions, fundamental identities, addition and half-angle formulas, inverse trigonometric functions, solutions of trigonometric equations, complex numbers and properties of triangle solution.

Rio Salado College: 4 credits

Prerequisites: Grade of “C” or better in MAT150, or MAT151, or MAT152, or equivalent, or concurrent registration in MAT150, or MAT151, MAT152, or satisfactory score on District placement exam.

Requirements: Graphing Calculator. May receive credit for only one of the following: MAT182 or MAT187.

MAT187 PRE-CALCULUS Y – 1 CR (M, QC)

This pre-calculus course combines topics from college algebra and trigonometry in preparation for analytic geometry and calculus.

Rio Salado College: 5 credits

Prerequisites: Grade of B or better in MAT120, or MAT121, or MAT122, or equivalent, or satisfactory score on district placement exam.

Requirements: Graphing Calculator.

Course Note: Strongly recommended that scholars have some knowledge of trigonometry.

Scholars may receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187.

MAT 220 CALCULUS WITH ANALYTICAL GEOMETRY I Y – 1 CR (M, QC, LV)

Course topics include: limits, continuity, differential and integral calculus of functions of one variable.

Rio Salado College: 5 credits

Prerequisites: Grade of “C” or better in [MAT182 and (MAT150, MAT151 or MAT152)], or MAT187, or

appropriate Math placement test score. **Course Notes:** Scholars may receive credit for only one of the following: MAT220 or MAT221.

Requirements: Graphing Calculator

COMPUTERS

CIS105 SURVEY OF COMPUTER INFORMATION SYSTEMS S – ½ CR (M, QC, LV)

This course is an 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, uses of application software and the Internet for efficient and effective problem solving as well as exploration of relevant emerging technologies.

Rio Salado College: 3 credits

Prerequisites: None.

BPC 135 WORD LEVEL I S – ½ CR (M, QC)

Using Word processing software to create and name files, edit text, format, and print a variety of documents.

Rio Salado College: 2 credits

Prerequisites: The ability to use a keyboard at a minimum of 24 wpm or permission of instructor

BPC 235DK WORD LEVEL II S – ½ CR (M, QC)

Using Microsoft Word processing software features such as math, columns, macros, styles, graphics, sort, outlines, and table of contents. **Rio Salado College: 2 credits**

Prerequisites: BPC135DK or permission of Instructor

SCIENCE

BIO 100 BIOLOGY CONCEPTS Y – 1 CR
(M, QC)

This is a full year introductory course covering basic principles and concepts of biology. Methods of scientific inquiry and behavior of matter and energy in biological systems are explored. Field trips may be required at scholars' expense.

Rio Salado College: 4 credits

Prerequisites: None

BIO 100 LABORATORY FOR BIOLOGY CONCEPTS

Lab is taken in conjunction with BIO 100

Rio Salado College: 0 credits **Prerequisites: None**

CHM 130 FUNDAMENTAL CHEMISTRY Y – 1 CR
(M, QC)

A survey of the fundamentals of general chemistry. Emphasis on essential concepts and problem solving techniques. Basic principles of measurement, chemical bonding, structure and reactions, nomenclature, and the chemistry of acids and bases.

Rio Salado College: 3 credits **Prerequisites: None**

CHM 130 FUNDAMENTAL CHEMISTRY LABORATORY

Lab is taken in conjunction with CHM 130

Prerequisites: None **Rio Salado College: 0 credits**

PHY 111 – GENERAL PHYSICS S – ½ CR
(M, QC)

This is a rigorous course, and the content is similar to a general Physics class at the college level. The year starts with a fast-paced section on kinematics, vectors, Newton's laws of motion, momentum, work, energy, rotational motion, gravity, electricity, harmonic motion, waves, sound and light. If time permits, a brief introduction to special and general relativity may be added at the end of the course. A graphing calculator will be needed for graphical analysis and to aid in calculations. Course includes study of motion, energy, and properties of matter.

Rio Salado College: 4 credits

Prerequisites: MAT182, or MAT 187, or one year high school Trigonometry with a grade of C or better, or permission of Department or Division.

PHY 112 – GENERAL PHYSICS II S – ½ CR
(M, QC, LV)

Continuation of PHY 111. Study includes electricity, electromagnetism, and modern physics.

A graphing calculator will be needed for graphical analysis and to aid in calculations. Course includes study of motion, energy, and properties of matter.

Rio Salado College: 4 credits

Prerequisites: PHY with a C or better

HISTORY

HIS103 US HISTORY TO 1865 S – ½ CR
(M, QC, LV)

Covers the political, economic, and social development of United States from the Pre-Columbian period through the end of the Civil War (1865).

Rio Salado College: 3 credits

Prerequisites: 10th – 12 Grade Only

HIS104 US HISTORY TO PRESENT S – ½ CR
(M, QC)

Course studies the political, economic, and social development of United States from 1865 to the present time.

Rio Salado College: 3 credits

Prerequisites: 10th – 12 Grade Only

ECN 220 INTRODUCTION TO ECONOMICS S – ½ CR
(M, QC)

The course covers microeconomic topics, macroeconomic topics, and international economics topics. Microeconomic topics include the nature and method of economics, supply and demand, utility, and supply and demand elasticities. Macroeconomic topics include the measurement of national output, factors that impact output, other means of measuring national wealth and economic well-being, unemployment, inflation, GDP accounting, and business cycles. While the focus of this course is primarily on the U.S. economy, some comparative economic analysis will be covered. In addition, select topics related to international trade and finance are introduced.

Prerequisites: Junior or Seniors only

Grand Canyon University: 4 credits