



ROCK ACADEMY CURRICULUM CATALOG

(Updated 10/2011)

The Rock Academy's Curriculum Catalog is intended as a guide to assist students in the selection of their courses for the school year. Parents and students are urged to read this material carefully prior to making final selections.

GENERAL INFORMATION: Academic Requirements

Students in grades 7 and 8 take a prescribed course of study adjusted for their academic background, achievement and level needs.

As a minimum, all 7-11th grade students carry seven courses each semester (generally five academic courses, Bible, physical education and an elective or study hall). Seniors may take fewer courses as needed to complete all graduation requirements, but will take at minimum, two academic courses, Bible, two more electives (academic or non-academic), and PE if required. All departments reserve the right to withdraw electives at any time due to restrictions of staffing, scheduling, facilities, or other factors that interfere with the instruction or administration of the elective.

To graduate, a student must earn 44 credits in grades 9 through 12. (High School level foreign language and math classes can be earned in Middle School.) These must include the following:

- ENGLISH - 4 years
- MATHEMATICS - 3 years
- HISTORY AND SOCIAL SCIENCES - 4 years (World Geography, World History, U.S. History and Government/Economics)
- SCIENCE - 3 years (2 one-year Lab Sciences taken in Grades 9-12)
- FOREIGN LANGUAGE – 2 full consecutive years of the same language

Non-Academic Requirements

- BIBLE – 4 years (This 4-year requirement is adjusted for new students entering the Rock Academy after their freshman year)
- PHYSICAL EDUCATION – 4 semesters minimum plus pass exam or 8 semesters
- SCHOOL/COMMUNITY SERVICE - varies with grade level (see "A," page 4)
- VISUAL or PERFORMING ARTS - 1 full year (UC Approved Visual or Performing Arts)

Students must satisfy the visual and performing arts requirement during grades 9 through 12. Only the University of California (UC) approved courses listed below may be used to satisfy this requirement. Students must complete one course in a yearlong sequence (the second semester must be the continuation of the first semester, requiring the first semester as a prerequisite). Students may divide the yearlong course into two different academic years, as long as the course curriculum is designed as a yearlong sequence. Students must have at least one complete block from the table below.

UC APPROVED ARTS COURSES

Each block represents a one-year course sequence and meets the UC requirements.

- DANCE
- DRAMA
- GUITAR
- DIGITAL MEDIA

Not all courses listed are offered each semester. (Some courses may be offered which receive elective credit at the Rock Academy but do not have UC approval and does not meet VPA graduation requirement.) Additional courses may be approved for UC credit after the printing of this catalog. See your guidance counselor for updates.

*Adjustments in credit totals will be made for students who matriculate into TRA after grade 9, depending on curriculum requirements in their former institutions, at the discretion of TRA, but must meet UC a-g requirements.

SPECIAL POLICIES

A. School/Community Service

The Rock Academy has a strong commitment to community service. As an integral part of our educational program the school requires that our students dedicate a specified amount of time to community service each year. The minimum time required for each grade level is as follows.

In the High School, ninth graders are required to complete 20 hours of community service. Tenth and eleventh graders are required to complete 30 hours of community service. Seniors are required to complete the 20 hours of service, an additional Senior Internship, and a Senior Portfolio and Presentation. The 100-hour requirement for graduation is adjusted for new students entering the Rock Academy after their freshman year. Exchange students are required to complete the same hours of service each year .

Students who have not completed their service obligations at the half-way deadline in December or the final deadline in May will be required to complete all of the next year's service hours before attending school at the Rock Academy for the following academic year.

Community Service performed during the summer months counts toward the hour requirement for the following school year. Community service is an integral part of the Bible class. Please see your Bible teacher for more details.

B. Failing Grades

Students who fail one of the minimum requirements must make it up by taking an additional program during the next academic semester/year or by earning the credit in summer school. Students wishing to take a summer course must receive administrative approval through the guidance department prior to enrollment.

C. Honor Roll

Honor Roll is granted at the end of each semester to students with high citizenship marks as follows:

Grades K – 3: Due to the nature of subjects at this age, no Honor Roll is awarded.

Grades 4 – 12: Dean’s Honor Roll = 3.5 or above cumulative unweighted GPA

Principal’s Honor Roll = 3.75 or above cumulative unweighted GPA

D. Weighted Grades

All Advanced Placement and honors level course grades are weighted. One point is added to each grade when calculating the GPA (An “A” is 5 points rather than 4 and a “B” is 4 points rather than 3, a “C” is 3 points rather than 2, however a “D” remains 1 point and an “F” is 0 points). Transfer courses at the Honors and AP level are only accepted for a weighted grade if the Academy offers an equitable course:

Letter Grade	Numerical Value	Regular	AP/Honors
A+	98 and above	4.0	5.0
A	93 – 97.9	4.0	5.0
A-	90 – 92.9	4.0	5.0
B+	88 – 89.9	3.0	4.0
B	83 – 87.9	3.0	4.0
B-	80 – 82.9	3.0	4.0
C+	78 – 79.9	2.0	3.0
C	73 – 77.9	2.0	3.0
C-	70 – 72.9	2.0	3.0
D+	68 – 69.9	1.0	1.0
D	63 – 67.9	1.0	1.0
D-	60 – 62.9	1.0	1.0
F	0 – 59.9	0	0

FREQUENTLY ASKED QUESTIONS

1. *What classes are required to graduate from TRAHS?*

In order to graduate, students must earn a minimum of 44 credits plus Bible, complete all required classes, complete community service requirements and internship, possess a first aid and CPR certificate earned during high school, and complete a senior project.

2. *How do I earn credits?*

When earning a grade of “D” or higher, the class counts for 1 credit per semester completed.

3. *Can I change my schedule?*

A student initiated schedule change is allowed the first 14 days (two weeks) of the semester. Classes are very limited; it is important to select classes carefully at registration. No changes will be allowed because of teacher or time preference.

4. *Are classes one or two semesters?*

Most classes are scheduled for a full year.

5. *Is it possible to repeat a class?*

If a student wishes to repeat a class in order to improve a grade, no additional credit will be given and both classes will be shown on the transcript. Some elective classes may be repeated for credit.

6. *Will my transcript reflect all the classes I take?*

Yes.

7. *What steps are necessary if I fail a class?*

All required classes must be made up. Students make up classes through administrative pre-approved accredited school’s summer sessions or at the Community College if available. A summer online option through Sevenstar is available for a fee for some classes, but must be a full academic class, not a credit recovery class.

8. *What steps are necessary if I only fail one semester?*

Only the failed semester must be made up.

TYPICAL DISTRIBUTION OF COURSES THROUGHOUT THE SIX-YEAR PROGRAM

GRADE 7:

- English 7
- Math (placement determined by department)
- World History
- Bible (year)
- Introductory Foreign Language, Spanish A/B
- Life Science
- Physical Education
- Elective or no credit Study Hall
- Community Service Hours: 10

GRADE 8:

- English 8
- Math (placement determined by department)
- American History
- Spanish I (or other placement determined by department)
- Physical Science
- Bible (year)
- Physical Education
- Elective or no credit Study Hall
- Community Service Hours: 10

GRADE 9:

- English 1
- Math (placement determined by department)
- World Geography: Regular or Honors
- Foreign Language (level determined by previous experience or achievement)
- Conceptual Physics (lab science)
- Bible (year)
- Physical Education
- Elective or no credit Study Hall
- Community Service Hours: 20

GRADE 10:

- English 2: World Literature & Composition
- Math (placement determined by department)
- Modern World History (If not previously taken; Regular or Advanced Placement)

- Biology (or another science if previously taken)
- Foreign Language (sequential to previous courses taken)
- Bible (year)
- Physical Education
- Elective or no credit Study Hall
- Community Service Hours: 30

GRADE 11:

- English 3: American Literature & Composition (regular or honors; or AP English Language & Composition; or AP English Literature & Composition)
- Math (placement determined by department)
- United States History
- Foreign Language (Regular or Advanced Placement)
- Chemistry (or another science if previously taken)
- Bible (year)
- Elective or no credit Study Hall
- Community Service Hours: 30

GRADE 12:

- English 4: British Literature & Composition (Regular or AP English Language & Composition; or AP English Literature & Composition)
- Bible (year)
- American Government (semester)
- Macro-Economics (semester)
- Any required core & art classes not already taken (science, math, foreign language, VPA)
- Electives and/or no credit Study Hall
- Community Service Hours: 20
- Senior Internship

(NOTE: All seniors must take a minimum of two academic subjects, two academic or elective classes and Bible each semester.)



Student Name: _____

Academic Planning Guide

Rock Academy College Preparatory Graduation Requirements**	UC/CSU College A - G Requirements	9th Grade	10th Grade	11th Grade	12th Grade
History 4 Years*	a) History/Social Sci. 2.5 Years	World Geography Semester 1 - 2 ____	World History Semester 1 - 2 ____	US History Semester 1 - 2 ____	Govern./Econ. Semester 1 - 2 ____
English 4 Years	b) English 4 Years	English I Semester 1 - 2 ____	English II Semester 1 - 2 ____	English III Semester 1 - 2 ____	English IV Semester 1 - 2 ____
Mathematics Algebra 1 1 Yr. Geometry 1 Yr. Algebra II 1 Yr.	c) Mathematics 3 Years (4 yrs. Recom.) Alg. I, Geometry, Alg. II and above (If course taken in Jr. High OK)	 Semester 1 - 2 ____	 Semester 1 - 2 ____	 Semester 1 - 2 ____	 Semester 1 - 2 ____
Science Conceptual Physics* 1 Yr. Biology 1 Yr. Chemistry 1 Yr.	d) Lab Science 2 Years (3 yrs. Recom.) Chemistry/Physics/Biology	 Semester 1 - 2 ____	 Semester 1 - 2 ____	 Semester 1 - 2 ____	 Semester 1 - 2 ____
Foreign Language 2 Years	e) Foreign Language 2 Years (3 yrs. Recom.) (In the same language)	 Semester 1 - 2 ____	 Semester 1 - 2 ____	 Semester 1 - 2 ____	 Semester 1 - 2 ____
Visual/Perf. Art 1 full year same art	f) Visual/Perf. Art 1 Yr. Digital Art, Guitar, Drama or Dance	 Semester 1 - 2 ____	 Semester 1 - 2 ____	 Semester 1 - 2 ____	 Semester 1 - 2 ____
Electives 6 semesters	g)* College Prep Electives In addition to a - f above choose: science, mathematics, history, 3rd yr. same foreign language, non-introductory visual or performing art. 1 Yr.	 Semester 1 - 2 ____	 Semester 1 - 2 ____	 Semester 1 - 2 ____	 Semester 1 - 2 ____
Bible All years enrolled at the Rock Academy		Bible Semester 1 - 2 ____	Bible Semester 1 - 2 ____	Bible Semester 1 - 2 ____	Bible Semester 1 - 2 ____
Physical Education/Athletics 4 semesters		PE/Athletics Semester 1 - 2 ____	 Semester 1 - 2 ____	 Semester 1 - 2 ____	 Semester 1 - 2 ____
First Aid and CPR Certification during any of HS 4 years		First Aid Certification Date: _____		CPR Certification Date: _____	
Community Service 100 hours total	Community Service The more the better for application	Minimum of 20 hours _____	Minimum of 30 hours _____	Minimum of 30 hours _____	Minimum of 20 hours _____
Senior Portfolio & Presentation				Date Met: _____	
Citizenship (good standing)	Citizenship (good standing)			Citizenship GPA: _____	

g) *(CSU/UC required "g" College Prep Elective met in * items above.)

All UC/CSU a-g courses must be passed with a C+ or better.

Completion of all Rock Academy a-g courses meets the Div. 1 NCAA 16-core course requirement.

**Adjustments in credit totals will be made for students who matriculate into TRA after grade 9, depending on curriculum requirements in their former institutions, at the discretion of TRA, but must meet UC a-g requirements.

Print Parent Name _____

Parent Signature _____

Date _____

Student Signature _____

Date _____

ENGLISH

ENGLISH 7

ACADEMIC: Required
GRADE: 7
LENGTH: Year Course

This course focuses on developing the fundamental skills of critical reading, creative and expository writing, vocabulary development, the basics of grammar and usage, speaking and listening. Students read a variety of plays, short stories, novels and poems and through the study of these works, learn the basic elements of fiction and poetry, and explore the grade level theme of "Identity." Summer reading and regular outside reading are required.

ENGLISH 8

ACADEMIC: Required
GRADE: 8
LENGTH: Year Course

This course continues to develop students' skills in reading, writing, speaking, and listening. Students read a variety of literature; much of it related to the Eighth Grade Integrated Humanities curriculum, including Greek mythology, A Midsummer Night's Dream, and short stories and poetry. The works explore the grade level theme of "The Individual in Society." Using the process approach to develop their writing skills, students focus on writing expository and persuasive essays, and poetry. Grammar studies continue as an aid to composition. Summer reading and regular outside reading are required.

ENGLISH I

ACADEMIC: Required
GRADE: 9
LENGTH: Year Course

This course emphasizes the development of compositional skills, with practice in personal, creative, and expository writing along with continued grammar and usage study. The literature includes a multi-cultural unit of non-fiction and fiction selections, a Shakespeare play, and the study of poetry, short stories, and the novel. Some oral presentations and outside reading are required.

ENGLISH II

ACADEMIC: Required
GRADE: 10
LENGTH: Year Course

This course presents works of British literature from medieval times to the 20th century. Novels read may include works by Austen, Emily Bronte, Dickens, or other 19th-century writers. Shakespeare's Macbeth is a part of the curriculum, along with poetry of the medieval, 17th-century, Romantic, Victorian, and modern periods. Through exercises and intensive writing units, students enhance their understanding of grammar and improve their composition skills.

ENGLISH III

ACADEMIC: Required
GRADE: 11
LENGTH: Year Course

This course requires students to read, discuss, and write about representative works of American literature in the context of understanding and evaluating the ideas, the aspirations, and the reality of the American experience. The literature includes prose, poetry, and drama by a variety of authors, ranging from Puritan times to the present. Composition assignments focus on literary interpretation and analysis, the use of more complex writing techniques, and the development of a more sophisticated style. Students who complete this course sometimes take the A.P. English Language and Composition examination.

ENGLISH III HONORS

ACADEMIC: Required
GRADE: 11
LENGTH: Year Course
PRE-REQUISITE: 90% or better in English II

This course is an in-depth course covering all major literary time periods, classifications, and genres of American Literature from the Colonial times to the present. Throughout the year, we will learn about the history which informed each writer's work, as well as the stylistic trends and values of his/her era. We will focus on four primary skill areas this year: 1) critical thinking; 2) analytical reading and style analysis; 3) persuasive and argumentative essay writing; and 4) grammar mastery. In addition to *(Continued on p. 8)*

the college prep English III course, the honors course will study 3 additional full length works by well known American authors and complete a unit on the Introduction to Poetry: Forms and Elements.

ENGLISH IV

ACADEMIC: Required

GRADE: 12

LENGTH: Year Course

This Senior English class is a survey of British literature, beginning with the Anglo-Saxon period and covering canonical works through to the Twentieth Century. We will use Holt's Anthology of Literature VI. In addition to the anthology, students will focus on whole works including *Pride and Prejudice*, *The Screwtape Letters*, and *The Color of Water*.

AP ENGLISH LITERATURE AND COMPOSITION

ACADEMIC

GRADES: 11 or 12

LENGTH: Year Course

PRE-REQUISITE: Teacher Recommendation or A or B in previous course

In accordance with the most recent *AP English Course Description*, students will read, discuss, and interpret classic and/or significant literary works, short stories, documents and poems. Students will engage in close reading and critical analysis of imaginative literature which requires careful, deliberate reading that yields multiple meanings. Students will make multi-level connections within a wide array of literature styles, genres and eras from the sixteenth century to contemporary times. Students will explore a combination of British and American novels, plays, short stories, poems and excerpts to achieve the necessary breadth of knowledge.

AP ENGLISH LANGUAGE AND COMPOSITION

ACADEMIC

GRADES: 11 or 12

LENGTH: Year Course

PRE-REQUISITE: Teacher Recommendation or A or B in previous course

The purpose of this course is to prepare students for writing for the variety of audiences that they will encounter in their immediate future as well as at the university

and beyond. This course is modeled after a college level equivalent course and will train students in critical thinking, reading, writing and speaking as they respond to a variety of texts that represent different time periods and cultures.

HISTORY AND SOCIAL SCIENCES

World History

ACADEMIC: Required

GRADE: 7

LENGTH: Year Course

This course strives to give each student an understanding of and appreciation for the many different cultures of ancient civilizations. Our course of study takes each student through the ancient Greek and Roman periods that influenced the U.S. in the realm of architecture, government and law. We will understand how Alexander the Great kept his huge Macedonian-Persian empire together, as well as learn about the effect his death had on his empire. We conclude the first semester with the Middle Ages and the distortion of Christianity. During the second semester students study the Modern Age. The year is concluded by examining the 20th century.

AMERICAN HISTORY

ACADEMIC: Required

GRADE: 8

LENGTH: Year Course

The students will explore the rich history of the United States through its origins in the Protestant Reformation, the subsequent yearning for religious freedom in Western Europe, the Pilgrims establishing colonies, the growth of the colonies, the fight for independence, the writing of the constitution, the advancements made possible by free capitalism, the World Wars, and present day.

WORLD GEOGRAPHY

ACADEMIC: Required

GRADES: 9-12

LENGTH: Year Course

This course is designed to integrate the cultural, economic and political aspects of nations into a geographical (*Continued on p. 9*)

understanding of the world. The text is supplemented with newspapers and magazines to enliven perceptions of the interaction between people and their environments.

WORLD GEOGRAPHY HONORS

ACADEMIC

GRADES: 9

LENGTH: Year Course

PRE-REQUISITE: Successful completion of 8th grade history with a B or better

World Geography Honors is a two semester course of study for students who are well-prepared for advanced history and who will go on to take an AP or college level world history course. This course is designed to integrate the cultural, economic and political aspects of nations into a geographical understanding of the world. The textbook is designed to reach all learning styles and prepare students for a high school AP World History or college history course. Your understanding of geographical locations and cultures will be stressed throughout this course in relation to the history of the world.

MODERN WORLD HISTORY

ACADEMIC: Required

GRADES: 9-12

LENGTH: Year Course

This survey course examines the history of Europe, Africa, Asia and Latin America. Students investigate cause, effect, and change from the Renaissance world of the 15th century, through scientific discovery and revolution, to the ideological conflicts of the modern world. Students also research contemporary problems that demand creative and thoughtful solutions. Skills emphasized are note taking, research techniques, analysis and synthesis of conflicting viewpoints and problem solving.

AP WORLD HISTORY

ACADEMIC

GRADES: 10-12

LENGTH: Year Course

PRE-REQUISITE: Faculty Recommendation

Advanced Placement World History is designed to prepare students for intermediate and advanced college courses by making

demands similar to those of a full-year college survey course. AP World History develops a greater understanding of global processes, encounters, and interactions that have shaped human history since 8000 BCE. Daily activities focus on the mastery of a selective body of factual knowledge and the development of analytical skills required of advanced college students. Critical reading and writing skills are developed through the evaluation of primary and secondary sources, oral presentation, short essays and research assignments.

UNITED STATES HISTORY

ACADEMIC: Required

GRADE: 11

LENGTH: Year Course

This survey course examines U.S. History from the first immigrants to the present day, considering the political, economic, social, cultural and intellectual developments that have shaped the nation. Students sharpen reading, writing and analytical skills through lecture, discussion, outside readings, and work with a variety of documents.

AMERICAN GOVERNMENT

ACADEMIC: Required

GRADE: 12

LENGTH: Semester Course

PRE-REQUISITE: Completion of, or current enrollment in, regular or AP U.S. History)

This course examines the Constitutional background of American government, as well as our political institutions, political beliefs, political parties and interest groups, and civil rights issues. General concepts and specific case studies are explored. Upon completion of the class, students are prepared to take the Advanced Placement examination.

AMERICAN GOVERNMENT HONORS

ACADEMIC

GRADE: 12

LENGTH: Semester

PRE-REQUISITE: 11th Grade U.S. History or AP U.S. History with an A- or better

In this American Government Honors course students apply knowledge gained in previous years of study to pursue a deeper understanding of the *(Continued on p. 10)*

institutions of American government. Students will draw on their studies of American history and of other societies to compare different systems of government in the world today. In addition, students will conduct a research project and present their findings in an annotated research paper. This course should be viewed as the culmination of the civic literacy strand that prepares students to vote, to reflect on the responsibilities of citizenship, and to participate in community activities.

MACRO-ECONOMICS

ACADEMIC: Required
GRADE: 12
LENGTH: Semester Course

This course is designed to build upon an understanding of microeconomic principles and explore the big picture of the economy. Students will learn how to interpret macroeconomic statistics as they relate to economic growth and economic fluctuations. The analysis of economic activity will focus particular attention on the role of money and financial markets. Upon gaining an understanding of how the broader economy works, students will evaluate policies for economic growth and stabilization. Students who successfully complete this course will have taken a big step toward becoming the next generation of economic policy.

FOREIGN LANGUAGE

SPANISH A/B

ACADEMIC: Required
GRADES: 7 & New 8th Graders
LENGTH: Year Course

This course introduces the beginning student to Spanish. Vocabulary includes greetings, personal descriptions, time and weather, leisure activities, articles of clothing, colors, and school-related terms. The course presents the parts of speech, gender and article usage, noun-adjective agreement, the present tense, question formation, interrogative words, and introduces the use of the indirect object pronoun. Vocabulary and structurally based videos and readings accompany text-based activities.

SPANISH I

ACADEMIC: Required
GRADES: 8 & New 9th or 10th Graders
LENGTH: Year Course

This course is for students new to the school and covers material listed above in the introductory courses. The emphasis is on grammar, writing, reading, speaking and listening skills. Cultural material is introduced as time permits. This course will also include the study of AR/ER/IR verbs with direct object pronouns. Thematic vocabulary chapters will also be covered.

SPANISH II

ACADEMIC: Required
GRADES: 9-12
LENGTH: Year Course
PRE-REQUISITE: Spanish I

This course reviews the fundamentals of Spanish I and completes the study of all verb forms and basic grammatical structures. These elements are presented in the context of thematically organized units with vocabulary relating to practical situations, e.g., travel, daily routines, leisure activities, clothing and personal characteristics, holidays, etc. This course also presents cultural material including history, geography, and the arts. Successful completion of this course fulfills the language requirement and prepares students for Spanish III.

SPANISH III

ACADEMIC
GRADES: 9-12
LENGTH: Year Course
PRE-REQUISITE: Completion of Spanish II or departmental recommendation

This course follows and is a continuation of Spanish II. After reviewing the fundamental structures of the level 2 course, Spanish III introduces formal and negative commands, double object pronouns, preterite-imperfect contrast, the present subjunctive in noun and adjective clauses, the future, conditional and four perfect tenses, preterite and imperfect, direct and indirect object pronouns, the use of *por* and *para*, and passive voice. There is considerable emphasis on new vocabulary acquisition. Cultural material about the Spanish-speaking (*Continued on p. 11*)

world is also presented. Successful completion of this course prepares the student for Spanish IV.

SPANISH III HONORS

ACADEMIC

GRADES: 9-12

LENGTH: Year Course

PRE-REQUISITE: Spanish 1 and Spanish 2 with an A- or better

Students seeking to take Spanish 3 honors must first complete both Spanish I and Spanish II with an A- or better. Spanish 3 Honors is a third year course designed to develop the students' skills in reading, writing, speaking and listening to Spanish. Students will learn to use Spanish appropriately in a range of settings and situations and for a variety of purpose. The student will learn the Spanish language itself and about the Spanish Speaking world; its fascinating history, culture and above all, its great need for the gospel of Christ. Students will gain an increased understanding of basic cultural differences, history of the target culture and discussions of current events.

SPANISH IV

ACADEMIC

GRADES: 9-12

LENGTH: Year Course

PRE-REQUISITE: Placement by department recommendation

This course offers a survey of Hispanic culture, history, geography, political systems and sociology. Spanish vocabulary is expanded through conversational activities, newspaper articles, and films. A complete Spanish grammar review is presented. The class is conducted in Spanish. Successful completion of this course normally prepares the student for Advanced Placement Spanish Language.

AP SPANISH LANGUAGE

ACADEMIC

GRADES: 9-12

LENGTH: Year Course

PRE-REQUISITE: Placement by department recommendation

AP Spanish Language is conducted completely in Spanish and is designed for students who desire to become more proficient in reading,

writing, speaking, and listening in Spanish, as well as successfully complete the AP Spanish Language Exam. Students will learn to use Spanish appropriately in a range of settings and situations and for a variety of purposes. The student will learn the Spanish language itself and about the Spanish Speaking world – it's fascinating history, culture and above all, it's great need for the gospel of Christ. The activities and assessments in the AP Spanish Language course includes authentic material that integrates reading, writing, speaking and listening for the purpose of preparing the student for the AP exam.

MATHEMATICS

All Middle School students must take mathematics. Upper School students must take three additional years of mathematics, including Algebra II/Trigonometry. Courses through Advanced Placement Calculus and beyond are offered by the department. Any student receiving a grade below C- in a required mathematics course must improve his or her record in that course before continuing the study of mathematics at the Rock Academy. For such a student, the Mathematics department shall prescribe whether the student need attend Summer Session, attend some other summer school, or obtain independent tutoring.

Accelerated, or Honors sections of Mathematics courses are offered. These sections cover more material in greater depth than regular sections. Most students are placed in the regular track. Only those students who have demonstrated exceptional motivation, ability and achievement in mathematics are considered for placement in the accelerated track. To continue in the accelerated track, students generally need to earn grades of at least B. Two AP courses are currently offered; AP Calculus and AP Statistics. Students must maintain a 'B' average to remain in this course.

REGULAR TRACK

7 th Grade:	Pre-Algebra
8 th Grade:	Algebra I
9 th Grade:	Geometry
10 th Grade:	Algebra II/Trigonometry
11 th Grade:	Pre-Calculus or AP Statistics
12 th Grade:	AP Calculus

PRE-ALGEBRA

ACADEMIC: Required

GRADES: 7-8

LENGTH: Year Course

This course prepares students for the study of algebra. Topics covered include problem solving, expressions, variables, algebraic properties, linear equations, inequalities, functions, ratio, proportion and percents, Cartesian coordinate system, factors and fractions, rational numbers, statistics and probability.

ALGEBRA I

ACADEMIC: Required

GRADES: 7-9

LENGTH: Year Course

PRE-REQUISITE: Completion with grade C or better of Pre-Algebra or Algebra Readiness

This is a regular first-year course in algebra that covers basic (*Continued on p. 12*) algebraic topics including: linear equations and inequalities, quadratic functions and their graphs, and linear systems of equations. The topic of word problems is also given an extensive development. The emphasis is on building a firm foundation for future math courses.

GEOMETRY

ACADEMIC: Required

GRADES: 8-10

LENGTH: Year Course

PRE-REQUISITE: Completion with grade C or better of Algebra I

The predominant focus of this course is geometry and its relationship to other strands of mathematics, including algebra. This course focuses on Euclidean Geometry with emphasis on the formal proof. A TI-83+ or TI-84+ graphing calculator is required.

ALGEBRA II/TRIGONOMETRY

ACADEMIC: Required

GRADE: 9-11

LENGTH: Year Course

PRE-REQUISITE: Completion with grade C or better of Geometry

The unifying subjects for this course of advanced algebra and (*Continued on p. 13*) geometry are straight lines and the figures they produce - polygons and polyhedra. From

the beginning of the course, vectors and parametric equations are used to model motion in two and three dimensions. A TI-83+ or TI-84+ graphing calculator is required.

PRE-CALCULUS

ACADEMIC

GRADES: 10-12

LENGTH: Year Course

PRE-REQUISITE: Completion with grade C or better of Algebra II/Trigonometry

This course prepares students for the Calculus course or the AP Calculus AB course. Topics include triangle trigonometry, elementary functions (polynomial, exponential, logarithmic, inverse functions coordinate geometry, graphing techniques and sequences and series. A TI-83+ or TI-84+ graphing calculator is required.

PRE-CALCULUS HONORS

ACADEMIC

GRADES: 10-12

LENGTH: Year Course

PRE-REQUISITE: Successful completion of Algebra II/Trigonometry with a 90% or better

Honors Pre-Calculus is a two semester course of study for students who are well-prepared for advanced mathematics and who will go on to take an AP or college level math course. Previous experience with trigonometry is helpful, but not a prerequisite. This course will incorporate real-world applications, preparation for the SAT and ACT, use of a graphing calculator and much more. The textbook is designed to reach all learning styles and prepare students for a high school AP calculus or college calculus course. Your understanding of mathematical arguments and processes will be strengthened throughout this course.

AP CALCULUS

ACADEMIC

GRADE: 11-12

LENGTH: Year Course

PRE-REQUISITE: Completion with grade B or better of Pre-Calculus

This course will explore limits, derivatives and integrals through, whenever possible, applications and problem (*Continued on p. 13*)

solving. Students will work directly with calculus and will gain an understanding of how calculus can be used to analyze situations and relationships. A TI-83+ or TI-84+ graphing calculator is required. Students are strongly encouraged to sit for the AP exam in May.

AP STATISTICS

ACADEMIC

GRADES: 11-12

LENGTH: Year Course

PRE-REQUISITE: Completion with a B or better of Algebra II/Trigonometry and/or Teacher Recommendation

This course directly reflects the College Board course description for AP Statistics combining data analysis and technology. Students will be introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will focus on four themes: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference.

PHYSICAL EDUCATION AND HEALTH

MIDDLE SCHOOL PHYSICAL EDUCATION

NON-ACADEMIC: Required

GRADES: 7-8

LENGTH: Year Course

These classes, scheduled by grade and gender, consist of varied "activity units" that include both team and individual sports. Those "units" may include, but are not limited to: aerobics, baseball, basketball, field hockey, flag football, indoor hockey, lacrosse, soccer, softball, swimming, tennis, volleyball, and water polo. The curriculum emphasizes developmental skills, hand-eye coordination, foot-eye coordination, teamwork, good sportsmanship and general body awareness.

UPPER SCHOOL PHYSICAL EDUCATION

NON-ACADEMIC: Required

GRADES: 9-12

LENGTH: Two semesters per year

(PE credit is not given for summer participation in activity)

The Upper School physical education requirement can be completed in a variety of ways that allow flexibility for the student. School day classes, interscholastic sports, dance classes and after-school weight training classes are offered. Off-campus club sports may be approved by the administration through a specific application and weekly activity log. Students are enrolled in PE/Athletics on a semester basis regardless of trimester after-school sports seasons, students, however students may move back and forth between PE and athletics depending on their season of sport(s).

The school day classes include individual and team sport practice as well as an introduction to less traditional activities. The activities may include, but are not limited to, basketball, flag football, golf, soccer, softball, tennis, volleyball, weight training and aerobics. The emphasis is on overall physical fitness, enjoyment of activity and a basic knowledge of appropriate skills and rules of many of the previously listed sports.

INTERSCHOLASTIC ATHLETICS

NON-ACADEMIC

LENGTH: Seasonal

In order for a student to participate in CIF sports, he/she must maintain a 2.0 GPA. These GPA scores will be calculated at the end of each 3-week grading period. Should a student's grade fall below a 2.0 GPA, he/she will be placed on probation. Should his/her GPA remain below a 2.0 at the next 3-week grading period, he/she may not participate in CIF sports for the entire 3-week grading period that follows. At the end of this grading period, scores will again be calculated and if they have been raised to the 2.0 level, the student will again be eligible to participate. GPA's at the end of second semester will qualify or disqualify a student's participation for the first 3 weeks of the fall term.

For those students interested in participating in interscholastic competition, the Rock Academy offers the following sports:

(Listed on p. 14)

HIGH SCHOOL ATHLETICS

Men's Football
Men's Soccer
Men's Basketball
Men's Baseball
Women's Volleyball
Women's Soccer
Women's Basketball
Women's Softball
Wrestling
Cross Country
Track
Varsity Cheer
Dance

MIDDLE SCHOOL SPORTS

Boys Flag Football
Boys Basketball
Boys Soccer
Girls Volleyball
Girls Basketball
Girls Soccer

SCIENCE

All courses listed below are year courses. Those marked "Lab Course" meet five periods per week (a double-period once a week and three single periods).

Science Department General Policy Statements

1. As part of the graduation requirements at the Rock Academy each student is required to take TWO lab science courses, each in a separate field of study.
2. If a student intends on pursuing a science-related field in the future, the science department strongly recommends that he/she take all three science lab courses (biology, chemistry, and physics).
3. Two science courses may be taken concurrently with the permission of the science department and the Administration.

Science Department Advanced Course Work Philosophy:

The Rock Academy Science Department offers instruction in every course that is both extensive and profound. All of our courses are designed to instill an appreciation of fundamental scientific principles that govern

our world, to develop a student's analytical and critical thinking skills, and to challenge the minds of every student among a very gifted student body. Our advanced courses are particularly designed for those students who have especially distinguished themselves in prior work at the School as being prepared to handle intellectual challenges beyond the rigors offered in our regular courses, who are able to think and learn independently, and who have demonstrated a sincere interest in the sciences.

Life Science

ACADEMIC: Required

GRADE: 7

LENGTH: Year Course

This course is the first in the two-year Middle School science program. The program emphasizes student acquisition of learning skills and laboratory techniques while covering important fundamental scientific principles. The 7th grade year focuses on life sciences as they relate to humans and the environment, but all the science disciplines are integrated into the curriculum. Whenever possible the program supports integration of other subjects in the Middle School curriculum.

Physical Science

ACADEMIC: Required

GRADE: 8

LENGTH: Year Course

This course is the second in the two-year Middle School science program. The program goals outlined for Science 7 continue with an emphasis on the physical earth sciences as they relate to humans and the environment.

CONCEPTUAL PHYSICS

ACADEMIC

GRADE: 9 - 12

LENGTH: Year Lab Course

PRE-REQUISITE: Algebra I

This course is an introduction to the study of the basic physical principles that govern how the universe works. Some of the topics that students will investigate include fundamental concepts of motion and mechanics, gravity, electricity and magnetism, waves, sound, and light. Class work will involve lectures, demonstrations, (*continued on p. 15*)

laboratory work, homework problems, and group projects emphasizing physics at work in real life settings. In addition to gaining a solid foundation in important physical principles, students will develop abstract thinking and problem solving skills.

BIOLOGY

ACADEMIC

GRADES: 10-12

LENGTH: Year Lab Course

PRE-REQUISITE: Physical Science or Accelerated Physical Science

This course provides a thorough introduction for all students to the increasingly important field of biology, covering the core concepts of biochemistry, genetics, natural selection, and ecology. In this challenging laboratory course, students experience biology as a scientific process involving inquiry-based work and collaborative activities. There is a strong emphasis on the development of skills, including experimental skills, critical thinking, cooperative learning, and study skills.

CHEMISTRY

ACADEMIC

GRADES: 10-12

LENGTH: Year Lab Course

This course will familiarize students with the underlying principles that govern the chemical reactions in our world. Through extensive laboratory experiments, lecture and discussions, students will explore the answers to five fundamental questions regarding matter and the changes it undergoes. (1) What is matter? (Structure of matter and Atomic Theory) (2) How does matter change? (Chemical reactions) (3) Why does matter change? (Thermodynamics) (4) How fast do reactions occur? (Kinetics) (5) How far do reactions go? (Equilibrium) In addition to the chemical principles covered in the class, a heavy emphasis is placed on the development of skills, including problem-solving, abstract modeling, experimental analysis, scientific writing, and critical thinking.

ANATOMY PHYSIOLOGY

ACADEMIC

GRADES: 11-12

LENGTH: Year Lab Course

PRE-REQUISITE: Biology, Chemistry and Algebra I

This course provides a comprehensive investigation of the anatomy and physiology of the human body. Topics include the structure, function, and interrelationship of organ systems, and homeostatic maintenance at each level of organization in the human body.

Integrated labs and activities allow students to explore anatomy and physiology through experimental type scientific investigations. There is a strong emphasis on development of experimental skills, critical thinking, cooperative learning, study/research skills, and scientific writing

ANATOMY PHYSIOLOGY HONORS

ACADEMIC

GRADES: 11-12

LENGTH: Year Lab Course

PRE-REQUISITE: Biology, Chemistry and Algebra I with faculty recommendation

This is a life science course designed for 11th and 12th grade students seeking a third or fourth year of honors level laboratory science. Additionally, this course introduces students to topics related to the healthcare and medical fields.

This course provides a comprehensive investigation of the anatomy and physiology of the human body. Topics include the structure, function, and interrelationship of organ systems, histology, homeostatic maintenance and disruption at each level of organization, in the human body. Integrated labs and activities allow students to explore anatomy and physiology through experimental type scientific investigations. There is a strong emphasis on the development of experimental skills, study/research skills, critical thinking, scientific writing, and common laboratory and clinical practices.

VISUAL AND PERFORMING ARTS

*These courses may be taken for physical education credit:

***DANCE I**

NON-ACADEMIC

GRADES: 9-12

LENGTH: Year Course

This class focuses on the development of introductory theatrical dance vocabulary. Students begin each class with a set warm-up that emphasizes correct body placement, strength, stretch and control. The process of combining skill with theatrical aesthetics will be addressed and constantly reiterated. The course progresses with movement phrases utilizing full body motion and musicality. The class ends with a final enrichment performance.

DRAMA

NON-ACADEMIC

GRADES: 9-12

LENGTH: Year Course

This class gives students an opportunity to explore theatre and art. Although their focus is on technical theatre, students are also exposed to performance. Students learn the fundamentals of theatre production and drama, including basic theater terminology for stage, improvisation, acting, monologues, special effects, technical production and history. This will be achieved through a variety of interrelated exercises, performance projects and interaction with professionals in the field. Students perform a scripted play.

GUITAR

NON-ACADEMIC

GRADES: 9-12

LENGTH: Year Course

Guitar 1 is a course designed for beginning guitar players. Basic fundamentals and history of guitar will be covered. Students will learn and perform pieces. Students will also have the opportunity to create their own compositions in the styles that we are studying.

DIGITAL MEDIA

NON-ACADEMIC

GRADES: 10-12 only

LENGTH: Year Course

Digital Media offers both an abstract and practical academic foundation to the art of graphic design. Through research, critique and a study of fundamentals of design the students will express originality and creativity by producing works of visual art. Design lessons in this class will also help with time management, and familiarize students with online tools and interactive websites

ELECTIVES

MUSIC/WORSHIP BAND

NON-ACADEMIC

GRADES: 9-12

LENGTH: Year Course

This year long performing arts course will be offered to grades 9-12. Students enrolled in this course will receive non-VPA arts credit. This level of band is for students with at least one year of previous playing experience on a wind, brass, or percussion instrument. Students taking this class will further develop both technical and musicianship skills. Students will also further develop their leadership skills by leading worship for the high school students during chapel on a weekly basis.

YEARBOOK

NON-ACADEMIC

GRADES: 7-12

LENGTH: Year Course

This is a full year course in which students produce the Rock Academy Yearbook. Students will be instructed in the area of desktop publishing. Organization, graphic design, photography, teamwork, leadership and the value of a deadline are also emphasized.

COMPUTER DRAFTING

NON-ACADEMIC

GRADES: 7-12

LENGTH: Year Course

This year long course will cover the basics of computer drafting. *(continued on p. 17)*

Students will become proficient in the use of CAD software. Design, layout, organization, and management of a project will also be taught.

HOME ECONOMICS

NON-ACADEMIC

GRADES: 7-12

LENGTH: Year Course

This year long non-academic class will prepare the students in daily household and domestic duties. Students will be instructed in the areas of food preparation, sewing, household safety, nutrition and budgeting.

SENIOR LIFE AND LEADERSHIP PREP

NON-ACADEMIC

GRADES: 12

LENGTH: Year Course

This year long non-academic class will prepare students to face the challenging transition from high school to the world of being on their own. The class covers the use of Naviance, college/military applications, scholarship searches, organization skills, time management, financial literacy, relationships, college survival, dorm life and roommates, renting their first place, basic home plumbing and electrical, cooking made easy, doing the laundry, sewing basics, buying and maintaining a car, etc.

BIBLE

7TH GRADE BIBLE

NON-ACADEMIC, Required

GRADE: 7

LENGTH: Year Course

7th Grade Bible is a survey of the Old Testament. The study of each book in the Old Testament, authorship, and chronology is covered. Major Biblical characters and their significance to the Christian faith are also studied.

8TH GRADE BIBLE

NON-ACADEMIC, Required

GRADE: 8

LENGTH: Year Course

8th Grade Bible is a survey of the New Testament. The study of each book of the New Testament, authorship and chronology is covered. The life of Jesus is emphasized along with the establishment of the Christian Church. Pauline literature and the epistles are also studied.

9TH GRADE BIBLE

NON-ACADEMIC, Required

GRADE: 9

LENGTH: Year Course

9th Grade Bible is an in-depth study on the Life of Christ. Christ's birth, life, death, miracles, and deity are studied. Students will develop their own testimony and be able to defend their faith.

10TH GRADE BIBLE

NON-ACADEMIC, Required

GRADE 10

LENGTH: Year Course

10th Grade Bible is an in-depth study of the Old Testament Major Prophets and the books surrounding those prophets. Students will study the book of Isaiah, Jeremiah, Ezekiel and Daniel.

11TH/12TH GRADE BIBLE

NON-ACADEMIC, Required

GRADE: 11 & 12

LENGTH: Year Course

11th/12th Grade Bible first semester is a practical study in finding and fulfilling each student's unique mission in life. The second semester, is an Apologetics Course. Students will learn how to defend the Christian Faith. Students will also examine other religions.