



AQUINAS HIGH SCHOOL

“...developing Christian leaders...”

2009-2010

REGISTRATION GUIDE

Developing Christian Leaders

The mission of Aquinas High School is “*Developing Christian Leaders*” through an excellent Catholic secondary education. The school emphasizes moral/ethical standards, and strives for a Christian integration of spirit, mind, and body in each student. Aquinas seeks to foster respect for all persons, to encourage responsibility in each individual and to promote leadership and service among its students.

INTRODUCTION

Aquinas strives to develop young Christian leaders. Each student is challenged to achieve his or her greatest potential in a dynamic learning environment, characterized by academic success, service to others, and a deep, personal love of our Lord.

This registration guide provides students and parents important information on the course offerings, work expectations, grading policies, and matriculation requirements. Parents and students should review the current year of course requirements as well as the full four-year program. Ability levels and individual student work ethic should be considered when selecting courses.

Aquinas High School is accredited by the Southern Association of Colleges and Schools (SACS) and is a member of the National Catholic Education Association (NCEA).

REGISTRATION & GRADE INFORMATION

CREDIT

A full year course earns one credit. A semester course earns ½ credit. Credit is recorded at the end of every semester. The maximum number of credits that can be earned in any one school year is SEVEN. All semester grades are recorded on the student’s permanent transcript.

MINIMUM CLASS LOAD

Students are expected to carry SEVEN classes during the freshman and sophomore years. Juniors and seniors may elect to take a study period as long as they carry a minimum of SIX full classes each semester.

MAXIMUM CLASS LOAD FOR HONORS AND AP COURSES

Due to the heavy workload and expectations in upper level courses, students are limited to 3 AP courses and 2 honors, or 4 AP courses.

ADMISSION REQUIREMENTS

Aquinas is open to young Catholic boys and girls who have completed elementary education, who are competent to follow a college-prep course of studies, and who have a record of good conduct. Qualified non-Catholic students are admitted, as space is available.

Students must be under the care of a parent or legal guardian and must have a valid immunization form.

Incoming freshman students will be tested for entrance and placement purposes.

TRANSFER STUDENTS

Aquinas welcomes transfer students into the first three grade levels provided space is available. Transfer students must provide transcripts showing a minimum of six courses earned per year and a positive discipline record.

All necessary academic forms as well as personal and medical information should be handled through the counselor.

Aquinas will not accept students who have been expelled from a school for any reason, and, ordinarily, does not accept students who have been suspended. Only in rare instances will a student be admitted for diploma as a senior.

GRADE POINTS

Aquinas has a weighted grade point system, which uses the following scale:

	College Prep	Honors Course	AP Course
95-100	4.5	4.7	5.0
90-94	4.0	4.2	4.5
85-89	3.5	3.7	4.0
80-84	3.0	3.2	3.5
76-79	2.5	2.7	3.0
73-75	2.0	2.2	2.5
70-72	1.5	1.7	2.0
0-69	0.0	0.0	0.0

REPORT CARDS

Report cards are issued quarterly, utilizing the following conversion scale:

A+	95 -100
A	90 - 94
B+	85 - 89
B	80 - 84
C+	76 - 79
C	73 - 75
D	70 - 72
Failure	Below 70
INC	Incomplete

INCOMPLETES

Only students with a serious extended illness at the end of an academic quarter can receive an incomplete grade. These individuals will be allowed to make up work for their classes. Exceptions to this policy can be granted only by the administration.

WITHDRAWAL FROM A COURSE

Students may request changes in their class schedule within the first TEN school days in August. Seating limits and scheduling restrictions might not permit a change. After this period, class changes can only be made with the approval of the counselor and all impacted teachers.

REQUIRED CREDITS

To be classified at each grade-level, a student must have earned a minimum of full-year credits as follows:

Sophomore	6 credits
Junior	12 credits
Senior	18 credits

AVERAGING OF SEMESTER GRADES

Students who receive a failing grade for one semester may still receive full credit for the course. The passing semester grade must average with the failing semester grade to produce a final-year minimum grade of 70 in order to receive credit for the entire year.

GRADUATION

In order to graduate, a senior must accumulate 24 full-year credits and complete all required courses.

Seniors who do not have the required 24 credits (including all 19 state-mandated core-curriculum courses) and satisfactory conduct, or who have any bills outstanding to Aquinas, will not be permitted to participate in the commencement ceremonies.

TRANSCRIPTS

An official transcript from Aquinas High School contains the following information about the student: courses completed, credits earned, grade received, and results of standardized tests.

The school will not release official transcripts to any student who is delinquent in tuition, fees or fines.

Aquinas does not indicate class rank on the official transcript. Seniors who wish to have that information provided on their college application forms and counselor letters can request inclusion of class rank from the college advisor.

Eighth grade course work is not listed on the Aquinas transcript. Students who have accelerated work from the eighth grade will still need to complete the required 24 units of high school credit.

SPECIAL PROGRAMS

ADVANCED PLACEMENT

Students have the opportunity of taking Advanced Placement courses in English Literature and Composition, English Language and Composition, Calculus, European History, U.S. History, Biology, Government, and Microeconomics. AP Exams are administered in May of each year and are optional. Each individual college decides on the advanced credit earned based on the student's AP exam grades.

In order to be eligible for Advanced Placement courses, students must fulfill two of the following three criteria:

- 1) excellent standardized test results,
- 2) approval of their present subject area teacher,
- 3) a grade of **B** or higher in previous courses taken in the same academic field.

Due to the heavy workload and expectations in upper level courses, students are limited to 3 AP courses and 2 honors, or 4 AP courses.

HONORS COURSES

Students are eligible for Honors Courses if they satisfy the same criteria established for AP courses. Most AP courses require honors courses as prerequisites.

ACADEMIC SUPPORT PROGRAM

The Academic Support Program is designed for students with average ability that have been diagnosed with a learning disability. These students will work toward an Aquinas diploma. Students will be admitted to this program after consultation with the administration.

INDEPENDENT STUDY

Independent Study is intended as an opportunity for a student to design (with help from a teacher) a semester course that is advanced study in a subject area for which a course is not offered at Aquinas. Juniors and seniors may take independent study if they have a GPA of "B" or higher, or have demonstrated high ability in the subject field.

The student with the sponsoring teacher must write the Independent Study proposal in a form to be included in his/her permanent record. The proposal must indicate sixty hours of study time and the method of evaluation. The student submits the proposed course to the department chair who submits the proposal to the counselor by May 15. Final approval rests with the principal.

OPEN STUDY HALL

Open study hall is a privilege extended each quarter to seniors according to the following guidelines: 1) seniors must have a 3.0 cumulative GPA and 2) must have a good record of attendance. Seniors who gain this privilege must remain in the cafeteria or the media center. This privilege is subject to quarterly review by the administration.

SUMMER SCHOOL

Aquinas High School recognizes the need for summer school for students who have taken a course at Aquinas but have not passed the course with at least a 70. Summer school is not intended as an opportunity for students to work ahead in any area. The only summer school courses offered at Aquinas are in religion.

Aquinas accepts summer school credits from accredited schools, including public and private. The guidance counselor notifies students and parents if students have not passed a course. On rare occasions a counselor may permit a student to take an on-line course in English or Social Studies only. [Math and science courses must be taken at an accredited summer school program.] The counselor is available to discuss the best options for each student.

REQUIREMENTS FOR GRADUATION

Religion	4 credits
English	4 credits
Mathematics	4 credits
Social Studies	3 1/2 credits
Science	3 credits/ 4 credits*
Foreign Language (same)	2 credits
Fine Arts	1 credit
Phys Ed/Health	1 credit
Computer Lit.	1/2 credit
Elective	1 credit
Total	24 credits

*This is a new graduation requirement for students starting ninth grade in the 2008-2009 school year. The fourth science credit may be used to meet both the science and elective requirements.

Classes at Aquinas are divided into "Advanced Placement," "Honors" and "College Preparatory." Most students enrolled in "Advanced Placement" and "Honors" classes will also be enrolled in some "College Preparatory" classes.

COLLEGE RECOMMENDATIONS

The Aquinas High School requirements for graduation exceed the recommendations of the Georgia Board of Regents for acceptance at Georgia colleges and universities.

GRADUATION REQUIREMENTS

Incoming freshmen can expect to follow this plan of study at Aquinas.

The following is for you and your parents to keep a record of your progress toward graduation. It is suggested that after receiving a final report card, the course names and grades be transferred from the card to this sheet. In this way, there will never be any doubt about how many credits you have earned or in what area credits are needed in order to graduate from Aquinas High School.

FRESHMAN YEAR				
7 Credits Required	Subject Area	Course Name(s)	Credits Earned	Final Grade
1	Religion	Scripture		
1	English	Literature & Composition, H-Literature & Composition		
1	Mathematics	Integrated Math I, Integrated Math II, H-Integrated Math II		
1	Science	Biology, H-Biology		
1	Phys Ed/Health	Phys Ed/Health		
½	Computer Education	Computer Literacy		
½	Social Studies	World Civilizations		
1	Foreign Language	Spanish, French, Latin		

SOPHOMORE YEAR				
7 Credits Required	Subject Area	Course Name	Credits Earned	Final Grade
1	Religion	Moral Theology		
1	English	American Literature, H-American Literature		
1	Mathematics	Algebra II, H-Algebra II, Integrated Math II		
1	Science	Physical Science, Chemistry, H-Chemistry, Environmental Science		
1	Social Studies	U.S. History, H-World History		
1	Foreign Language	Spanish, French, Latin		
1	Elective (Fine Art)			

GRADUATION REQUIREMENTS

JUNIOR YEAR				
6 or 7 Credits Required	Subject Area	Course Name	Credits Earned	Final Grade
1	Religion	Roman Catholic Theology		
1	English	English Literature, AP- English Literature and Composition		
1	Social Studies	World History or AP-European History		
1	Mathematics	Algebra II, Algebra III, H-Pre Calculus		
1	Science	Environmental, Physics, Chemistry, H-Chemistry, Zoology, H-Chemistry II, Physical Science		
1	Elective			
1	Elective/Study			

SENIOR YEAR				
6 or 7 Credits Required	Subject Area	Course Name	Credits Earned	Final Grade
1	Religion	Senior Religion		
1	English	Advanced Composition, AP-English Language and Composition		
½	Social Studies	Economics, AP-Economics		
½	Social Studies	Government, AP-Government		
1	Mathematics	Algebra III, H-Pre Calculus, AP-Calculus		
1*	Science	Environmental, Physics, Chemistry, H-Chemistry, Zoology, H-Chemistry II, Physical Science, H-Marine Biology		
1	Elective			
1	Elective/Study			

*New graduation requirement for students starting ninth grade in the 2008-2009 school year.

COMPUTER EDUCATION

REQUIREMENT: All students are required to take one semester of computer literacy.

COMPUTER LITERACY
GRADES 9 – 12

SEMESTER
½ CREDIT

This course is a "learn by doing" type of class. The student will learn how to take full advantage of the computer's capabilities. Topics covered include computer architecture, word processing, desktop publishing, presentation graphics, databases, spreadsheets, the Internet, computer history, and ethical issues surrounding the computer field.

COMPUTER APPLICATION I: BEGINNING PROGRAMMING

GRADES 10-12

SEMESTER
½ CREDIT

PREREQUISITE: COMPUTER LITERACY AND GEOMETRY

The major goal of this course is for students to develop the computer science skills of algorithm development, problem solving, and programming. While the emphasis of the course will be on programming, students will also be introduced to other important topics, such as careers, the limits of computing and the difference between interpreters and compilers.

COMPUTER APPLICATION II: OPERATING SYSTEMS AND MANAGEMENT

GRADES 10–12

SEMESTER
½ CREDIT

PREREQUISITE: COMPUTER APPLICATION I

Students in this course develop an in-depth understanding of the components of computer systems and how operating system software manages the operation of those components. The course includes hardware design, operation, and maintenance; operating systems; basic mainframe concepts; software systems management; and system administration and control.

FINE ARTS

REQUIREMENT: All students must earn one credit in Fine Arts.

STUDIO ART I
GRADES 9-12

YEAR
1 CREDIT

This class will introduce the student to a variety of studio projects that might include: collage, yarn painting, clay-sculpture, drawing, painting, charcoal, etc. It will introduce the student to some master artworks, art history and art criticism.

BASIC DRAWING
GRADES 10 - 12

SEMESTER
½ CREDIT

This is a basic drawing course that does not require a previous drawing background. It will introduce cartooning, figure drawing, portraits, perspective, and other topics. It will include a variety of media that might include: pen, pencil, graphite, markers chalk or crayons. Students will examine solutions to drawing problems, will learn about several artists, and will use art criticism skills. Students may do some drawing outdoors, and/or with student models.

THREE-DIMENSIONAL DESIGN
GRADES 10 - 12

SEMESTER
½ CREDIT

This course introduces the design of relief sculpture and sculpture-in-the round. It will require the use of more tools and construction techniques than are used in other art classes. It will include additive, subtractive and modeling methods. The student will also learn about various sculptors and their use of artistic materials.

DRAWING II
GRADES 10 – 12

SEMESTER
½ CREDIT

PREREQUISITE: BASIC DRAWING

This course enhances Basic Drawing skills in technique and provides further exploration of drawing media. It will include the study of several artists and the use of critical analysis skills. Students may do some drawing outdoors, with student models and/or with the use of casts or manikins.

MIXED CHORUS
GRADES 9 - 12

YEAR
1 CREDIT

The chorale provides a means of expression and development for the student of vocal music. The student will be challenged with vocal technique; sight-reading, ear training, theory and a creative show production. Performance activities are a required part of this course.

ART HISTORY & APPRECIATION
GRADES 10 - 12

YEAR
1 CREDIT

This course makes art come alive with hands-on projects that relate historical examples to the students' own works. The course will include time-lines—from Egypt to the Middle Ages—cultural overviews, classical artists, and basic techniques. The second semester option continues to examine artistic achievement through the modern age.

YEARBOOK
GRADES 9 - 12

YEAR
1 CREDIT

This course specifically addresses the multifaceted needs of the students by introducing them to all phases of a yearbook and newspaper production. Students will become familiar with the topics of, theme writing development, photos and captions, design and graphics, and budget and sales.

FILM APPRECIATION I & II
GRADES 10 – 12

SEMESTER
½ CREDIT

This class is intended to introduce students into an academic and critical appreciation of Film. Student will become familiar with vocabulary necessary to discuss the artistic merits of film, as well as offer well-written critiques. The class will study many different genres and films from within the genre. A semester and final project will give the students an opportunity to demonstrate the knowledge gained in the class.

ART OF COMMUNICATION
GRADES 10 – 12

SEMESTER
½ CREDIT

PREREQUISITE: Successful completion of 9th grade English (at least a C average in English)

First semester of this course is ideal for those of you who have ever thought, "You mean I really have to get up there and speak in front of all those people?" This lively course is designed to teach upperclassmen the skills required to prepare and present a public address.

Second semester of this course is designed to spark the imagination and encourage creative expression. Students will discover and develop their own unique voices and hone their skills as writers in a workshop setting. We will experiment with poetry, fiction, and brief personal essays.

FOREIGN LANGUAGE

REQUIREMENT: All students must earn two credits in Foreign Language.

FRENCH I **YEAR**
GRADES 9-12 **1 CREDIT**

The first year of French focuses on vocabulary acquisition and self-expression through story telling. By mid term, students will be able to tell seven or eight stories and create original stories. Poems, songs, films and a French TV provide the much-needed exposure to the language to facilitate acquisition.

FRENCH II **YEAR**
GRADES 10 - 12 **1 CREDIT**
PREREQUISITE: FRENCH I

Second year French builds on the vocabulary and story telling skills acquired in French I and continues to develop the confidence and language skills necessary to speak a second language.

FRENCH III-HONORS **YEAR**
GRADES 11 - 12 **1 CREDIT**
PREREQUISITE: FRENCH II

In third year French, the students put their language skills to use through role playing and reading short chapter books. Films, songs and poems are included to increase the students' vocabulary base and speaking proficiency.

FRENCH IV-HONORS **YEAR**
GRADES 12 **1 CREDIT**
PREREQUISITE: FRENCH III

This final year of high school French enables the student to test out of the first two or three courses in college. After four years, communication in the second language begins to seem natural and students can enjoy the fruit of their labor. The fourth year curriculum includes films, French TV, poems, songs, and chapter books.

SPANISH I **YEAR**
GRADES 9 - 12 **1 CREDIT**

Spanish I is designed to help students learn to speak, write, read and comprehend Spanish. This course offers a practical proficiency-based approach in which language, grammar, vocabulary and culture interrelate in various learning settings. Students will communicate in Spanish using authentic language while becoming familiar with the culture of the Spanish-speaking world.

SPANISH II **YEAR**
GRADES 10 - 12 **1 CREDIT**
PREREQUISITE: SPANISH I

Students will improve their ability to interact with others in daily life situations enhancing their language skills. Students will communicate in Spanish while becoming familiar with the culture of the Spanish-speaking world.

SPANISH III-HONORS **YEAR**
GRADES 11 - 12 **1 CREDIT**

PREREQUISITE: SPANISH II
This course will expand the practical vocabulary needed for active language use and deepen appreciation of Hispanic culture through an introduction to literary works by Hispanic authors. Students will be able to strengthen their conversational skills in typical daily-life situations.

SPANISH IV-HONORS **YEAR**
GRADE 12 **1 CREDIT**

PREREQUISITE: SPANISH III
This final year of high school Spanish enables the student to test out of the first two or three courses in college. The students gain confidence and proficiency in the language through extensive practice and participation in competitions. A weekend immersion camp and internship programs are optional opportunities.

LATIN I **YEAR**
GRADES 9 – 12 **1 CREDIT**

Latin I is an elementary course that explores the basic rules of Latin grammar and develops vocabulary to enable the student to translate Latin into English and English into Latin. The student will have the ability to read with understanding Latin stories of some degree of difficulty.

LATIN II **YEAR**
GRADES 10 – 12 **1 CREDIT**

PREREQUISITE: LATIN I
Latin II provides a review of grammar introduced in Latin I as well as an exploration of the rules of syntax in advanced Latin. The student will acquire additional vocabulary so that more complicated sentences will be translated. The student will be able to read with relative ease and understanding more complicated passages, including some of the classical literature of ancient Rome

LATIN III & IV – HONORS **YEAR**
GRADES 11 – 12 **1 CREDIT**

PREREQUISITE: LATIN II
The third and fourth year of Latin gives the advanced student an opportunity to further study the classical literature of ancient Rome, including the great works of Cicero and Virgil.

HORTICULTURE

REQUIREMENTS: Students can use horticulture to fulfill their elective requirement.

HORTICULTURE
GRADES 11 - 12

YEAR
1 CREDIT

This course introduces the student to landscape design and maintenance, greenhouse management, plant pathology, and the major groups of ornamental plant materials. The course is taught as a lab with the students using the school greenhouse and grounds as their test area. There is a field trip to Atlanta or Savannah to one of the Botanical gardens.

MATHEMATICS

REQUIREMENT: All students are required to take four years of mathematics during their four years of high school. At least one course must be above the Algebra II level in order to apply to a four-year university in Georgia. The TI-83 is required in all classes.

INTEGRATED MATH I GRADES 9 - 12

YEAR
1 CREDIT

This is the first course in mathematics under the new state guidelines. This course is taught in a problem-solving format. It introduces the algebra and geometry needed to solve problems at the first level of high school mathematics. There is an emphasis on the use of the TI-83.

INTEGRATED MATH II GRADES 9 - 10

YEAR
1 CREDIT

PREREQUISITE: (AS A 9TH GRADER) COMPLETION OF INTEGRATED MATH I IN 8TH GRADE WITH AT LEAST AN AVERAGE OF 80%

This second course in mathematics extends the algebra, geometry, trigonometry, data analysis, and probability to the intermediate level. It starts with an introduction to complex numbers. There is extensive use of technology to solve problems and to find patterns.

INTEGRATED MATH II - HONORS GRADES 9 - 10

YEAR
1 CREDIT

PREREQUISITE: (AS A 9TH GRADER) COMPLETION OF INTEGRATED MATH I IN 8TH GRADE WITH AT LEAST AN AVERAGE OF 90% AND 90th PERCENTILE PLACEMENT TEST SCORES

This second course in mathematics covers the same concepts as Integrated Math II but is designed to prepare the student to take AP Calculus in high school. Homework assignments are more complex and require independent study.

ALGEBRA II GRADES 10 -12

YEAR
1 CREDIT

PREREQUISITE: GEOMETRY OR INTEGRATED MATH II

This is an integrated course in intermediate algebra, with a thorough review of elementary algebra and an introduction to trigonometry if time permits.

ALGEBRA II-HONORS GRADES 10 - 12

YEAR
1 CREDIT

PREREQUISITE: COMPLETION OF GEOMETRY – H/INTEGRATED MATH II - H OR GEOMETRY/INTEGRATED MATH II WITH AT LEAST AN AVERAGE OF 90%

This course is a challenging preparation for advanced mathematical topics. It begins with a review of elementary algebra then develops the basic concepts of functions and set theory by thoroughly covering linear functions, quadratic functions, exponential and logarithmic functions, rational functions, and their graphs. It also studies the graphs of the conic sections, sequences and series, probability and an introduction to trigonometry, if time permits. There is a greater emphasis on application rather than simple comprehension, more time is spent on out of class assignments, more independent learning is required, and more material is covered than in Algebra II.

ALGEBRA III GRADES 11 - 12

YEAR
1 CREDIT

PREREQUISITE: ALGEBRA II

The first semester of this course reviews and extends the material covered in Algebra II, closely resembling a college Algebra course. Study groups are encouraged as an outside resource. The second semester of this course is an introduction to elementary statistics. Although statistical theory is addressed, this course does not stress the mathematical rigor required for mathematics majors. Statistics is a mathematical elective for students interested in careers in business or field research.

PRE-CALCULUS - HONORS GRADES 11 – 12

YEAR
1 CREDIT

PREREQUISITE: COMPLETION OF ALGEBRA II - H OR ALGEBRA III WITH AT LEAST AN AVERAGE OF 80%

Since functions are the foundation of Calculus, this course is designed to cover the elementary functions. It begins with a semester of trigonometry that covers topics such as trigonometric functions and their graphs, solving right and oblique triangles, proving identities, inverse trigonometric functions and complex numbers. The second semester covers polynomial, rational, exponential, and logarithmic functions as well as their properties and graphs. This course relies on mastery of algebraic concepts covered in prior courses. Some topics on probability, mathematical induction, and a brief introduction to calculus as well as analytic geometry are discussed. Homework assignments are complex and require independent study.

MATHEMATICS

AP CALCULUS AB
GRADE 12

YEAR
1 CREDIT

PREREQUISITE: COMPLETION OF PRE-CALCULUS – H WITH AT LEAST AN AVERAGE OF 85%

This is an advanced placement course. Students will be able to find derivatives and integrals of polynomials, algebraic, exponential, and logarithmic and trigonometric functions. They will use these skills to solve problems. The assigned work is very difficult and lengthy. The class is taught at a demanding pace. This course requires a great deal of independent study.

9TH	10TH	11TH	12TH
INTEGRATED MATH I	INTEGRATED MATH II	ALGEBRA II	ALGEBRA III
INTEGRATED MATH I	INTEGRATED MATH II - HONORS	ALGEBRA II - HONORS	PRE-CALCULUS - HONORS
INTEGRATED MATH II	ALGEBRA II	ALGEBRA III	PRE-CALCULUS - HONORS
INTEGRATED MATH II - HONORS	ALGEBRA II - HONORS	PRE-CALCULUS - HONORS	AP CALCULUS

PHYSICAL EDUCATION

REQUIREMENT: All students must complete a year of physical education/health.

PERSONAL FITNESS/HEALTH
GRADE 9

The goal of this course is to encourage students to develop an individual optimum level of physical fitness, acquire knowledge of physical fitness concepts and understand the significance of lifestyle on one's health and fitness. The Health curriculum in this course explores issues in social, mental and physical health development. Self-concept, drug/alcohol awareness and human sexuality are scrutinized extensively in this course.

YEAR
1 CREDIT

TEAM SPORTS
GRADES 10 – 12

The goal of this course is to introduce the fundamental skills, strategies, and rules associated with team sports.

SEMESTER
½ CREDIT

LIFE FITNESS I, II, III & IV
GRADES 10 - 12

These courses will provide instruction in weightlifting, cardio, and opportunities to participate in recreational sports.

SEMESTER
½ CREDIT

OUTDOOR EDUCATION
GRADES 10 – 12

The goal of this course is to promote an appreciation of the outdoors. Skills covered may include camping, hiking, orienteering, and boating and hunting safety.

SEMESTER
½ CREDIT

RELIGION

REQUIREMENT: All students are required to take a full credit of Religion each year they attend Aquinas.

SCRIPTURE
GRADE 9

YEAR
1 CREDIT

This course explores the major development characteristics of adolescents and an Introduction to Catholicism. A survey of the books and themes of the Bible, both Old and New Testament, is set within an overview of the geographical, historical, political and spiritual climate of the ancient Middle East is also presented.

CATHOLIC MORAL THEOLOGY
GRADE 10

YEAR
1 CREDIT

This is a survey and overview of the general content and spirit of Roman Catholic teaching of Moral Theology and Ethics based on Natural Law and the Ten Commandments. Emphasis is placed on God's objective will and man's response based on his own character formation. Included in the course is an extended segment on Christian principles of human sex and sexuality.

ROMAN CATHOLIC THEOLOGY
GRADE 11

YEAR
1 CREDIT

This is a comprehensive course in Roman Catholic Theology based on the articles of Faith and the Nicene Creed (Council of Nicea, AD 325) and presented in traditional apologetic format and sequence. Includes reading a "Life of Christ". Introduction to the development of the spiritual life by building to psychological foundation using Scott Peck's *Road Less Traveled*. Then moving into the Christian tradition by reading John P. Gorsuch's, *An Invitation to the Spiritual Journey*, and (time permitting) Anthony Bloom's, *Beginning to Pray*. Students study the Ignatian Exercises and keep a journal. [Service hours required.]

SENIOR RELIGION-COLLEGE PREP
GRADE 12

YEAR
1 CREDIT

The College Prep Senior Religion returns to a study of Scripture with an overview of Ecclesiastes, Job, and Song of Songs which present the three philosophies of life: Despair, Suffering, Love. Authors such as C.S. Lewis and J.R.R. Tolkien are used as examples of modern Christian writers. A large part of the course involves the Senior Project, which covers many subjects based on an initial study of a historically significant church building. Christian Art and Architecture are also introduced and there is a Service Hour Requirement.

SENIOR RELIGION-HONORS
GRADE 12

YEAR
1 CREDIT

Honors Senior Religion covers the major philosophers both ancient and modern using Socrates to Sartre by Samuel Enoch Stumpf. Christian Art and Architecture are covered as well. A large part of the course involves the Senior Project that covers many subjects based on an initial study of a historically significant church building. This class is offered to students who are recommended by the Religion Department based on the student's ability in English and Social Studies classes and their ability to think abstractly. [Service hours required.]

SCIENCE

REQUIREMENT: Students entering high school during the 2008-2009 school year will be required to take four years of science to include Biology, Physical Science or Physics, Chemistry or Environmental Science, and one additional course. Students entering high school prior to the 2008-2009 school year are required to take three years of science to include a Physical Science and a life science.

Taking two science courses simultaneously requires a 90 average in both math and science in the previous year, plus recommendation from the previous science teacher.

BIOLOGY I-HONORS **GRADES 9**

YEAR
1 CREDIT

This honors alternative to regular biology is structured and paced for the student who is interested in pursuing life science related studies in college.

BIOLOGY I **GRADE 9**

YEAR
1 CREDIT

This course introduces the student to basic themes of life science. The student acquires a fundamental knowledge of the scientific method, the chemical basis of life, cell structure and function, genetics, evolution, eubacteria, archaeobacteria, protists, fungi, plants, and animals. Lab safety and technique, dissection skills, identification procedures, and mastery of the microscope are emphasized.

CHEMISTRY I-HONORS **GRADES 10 - 12**

YEAR
1 CREDIT

PREREQUISITE: COMPLETION OF ALGEBRA I & BIOLOGY I

This honors alternative to regular chemistry is structured and paced for the advanced student.

CHEMISTRY **GRADES 10 - 12**

YEAR
1 CREDIT

PREREQUISITE: COMPLETION OF ALGEBRA I & BIOLOGY I

Chemistry is an introductory course in experimental science dealing with the structure, composition, and properties of matter. The course material includes: measuring and calculating, classification of matter, energy changes, atomic structure, electron cloud and probability, the periodic table, chemical formulas, the mole, chemical reactions, periodic properties, chemical bonding, changes of state, gases, and acid – base reactions.

***PHYSICAL SCIENCE** **GRADE 10 - 12**

YEAR
1 CREDIT

Physical science is intended as an alternative to Chemistry or Physics. The student will cover basic concepts of physics and chemistry. As important as the topics themselves are the skills developed, such as using the metric system, graphing, measuring, calculating, and the laboratory techniques are learned which are useful throughout the science curriculum.

*Physical Science and Environmental Science are on a rotating schedule. Environmental Science will be offered during the 2009-2010 school year.

*Physics and Chemistry II - Honors are on a rotating schedule. Physics will be offered during the 2009-20010 school year.

***CHEMISTRY II-HONORS** **GRADES 11 - 12**

YEAR
1 CREDIT

PREREQUISITE: CHEMISTRY I

Chemistry II – Honors is a second - year course that is strongly recommended for students intending to pursue science at the college level. The course material includes: chemical foundations, stoichiometry, chemical reactions, gases, thermochemistry, atomic structure and periodicity, bonding, properties of solutions, kinetics, equilibrium, acids and bases, aqueous equilibria, spontaneity, entropy, electrochemistry, and organic nomenclature.

***PHYSICS** **GRADES 11 - 12**

YEAR
1 CREDIT

PREREQUISITE: COMPLETION OF ALGEBRA I & GEOMETRY

COREQUISITE: ALGEBRA II

Physics is the study of matter and energy. The topics are those of a traditional college-preparatory course, including vector analysis of motion problems, conservation of energy and momentum, heat, waves, light, electrostatics and electromagnetism, and atomic and nuclear structure. The course makes extensive use of skills developed in algebra and geometry.

ANATOMY AND PHYSIOLOGY **GRADES 11 - 12**

YEAR
1 CREDIT

PREREQUISITE: COMPLETION OF BIOLOGY I & PHYSICAL SCIENCE OR CHEMISTRY

The course continues a series of life science themes. They include a study of mammals, human genetics, genetic engineering, animal behavior, and comparing vertebrates. An extensive study of human body systems includes the nervous, skeletal, muscular, integumentary, respiratory, circulatory, excretory, endocrine, reproductive, and immune systems. Nutrition, digestion, and disease processes complete the study of human biology.

SCIENCE

MARINE BIOLOGY-HONORS

GRADE 12

YEAR

1 CREDIT

PREREQUISITE: COMPLETION OF BIOLOGY I, CHEMISTRY I, AND ZOOLOGY

The course will emphasize the biological, ecological, and structural principles that govern marine life throughout all environments within the world's oceans. The major areas of study will include basic oceanography, properties of water, comparison of terrestrial and marine ecosystems, composition of the oceanic nekton, deep-sea biology, subtidal zones, intertidal zones, estuaries, coral reefs, symbiotic relationships, human impact on the sea, and the use of current biological collecting and sampling techniques. Extensive lab time will also be devoted to the organisms that populate the marine systems studied.

Dissection and keying of specimens will be used extensively.

Several Saturday lab-collecting trips will be required throughout the year in order to study the taxonomy and organization of the life occupying the marine environment.

	9 th	10 th	11 th	12 th
Biology I - Honors		Chemistry I	A & P Physics Chem II - H Zoology Env. Sci	Marine - H A & P Chem II - H Physics Zoology AP Bio
Biology I		Chemistry I	A & P Physics Chem II - H Zoology Env. Sci	Marine - H A & P Chem II - H Physics Zoology AP Bio
Biology I		Physical Science	Chemistry I Physics A & P Env. Sci	Chemistry I Chem II - H Physics A & P Zoology AP Bio
Biology I		Environmental Science	Phy Sci Chem I Physics	Chem I Physics Chem II - H A & P Zoology AP Bio

ADVANCED PLACEMENT BIOLOGY

GRADE 12

YEAR

1 CREDIT

PREREQUISITE: COMPLETION OF BIOLOGY I, CHEMISTRY I, AND A SECOND LIFE SCIENCE

This course is an expanded coverage of all the topics covered in general biology. Additional areas relating to current scientific research are also reviewed. The major areas covered include molecular biology, genetics, taxonomy, evolution ecology, anatomy and physiology of members of all major kingdoms.

*ENVIRONMENTAL SCIENCE

GRADE 10 – 12

YEAR

1 CREDIT

PREREQUISITE: COMPLETION OF BIOLOGY I

This course reviews interrelationships of the natural world, existing biomes, changes in the environment, environmental problems and potential solutions, and concerns for the future.

ZOOLOGY

GRADE 11 – 12

YEAR

1 CREDIT

PREREQUISITE: COMPLETION OF BIOLOGY I

COREQUISITE: CHEMISTRY I

This course is a detailed study of the animal kingdom. This course will include a review of biological principals, animal – like protists, animalia classification and evolutionary perspectives, and a detailed comparison of animal form and function.

SOCIAL STUDIES

REQUIREMENTS: All students are required to have three credits to include United States History, World History, Economics and Government.

WORLD CIVILIZATIONS
GRADE 9

This course examines forms of governments from many areas of the world community and how each relates to the other. The course also focuses on world geography and its impact on the development of modern civilizations.

SEMESTER
½ CREDIT

U.S. HISTORY
GRADE 10

This college preparatory course is a survey course in American History. Connections are made between historical events occurring in the development of the U.S. Focus is on the evaluation of the 19th and 20th century American history and emphasizes the political and economic causes for the development of particular policies and outcomes. Domestic and foreign policies are given equal treatment as to their successes and failures.

YEAR
1 CREDIT

AP U.S. HISTORY
GRADE 12

U.S. History AP is a survey course in American History equivalent to college introductory courses. The course is presented in chronological order beginning with colonization through the end of the 20th century. Emphasis is placed on social, political, and economic events. The course is designed to provide students with analytic and critical thinking skills. This course is intended for highly motivated students. All participants in this course are required to take the Advanced Placement History Examination in American History that will be administered in May.

YEAR
1 CREDIT

WORLD HISTORY – HONORS: ANCIENT & MEDIEVAL
YEAR

GRADE 10
This is designed primarily for the students who intend to take the Modern European History advanced placement course in the 11th grade. The course traces the development of theocratic, monarchical, and republican forms of government from the beginning of organized society through the decline of feudalism in Western Europe. The course also compares and contrasts the cultures of several eastern and western empires which rose and fell in the ancient world, follows the development of Christianity and the consolidation of its hegemony over Europe, and examines the major economic practices and trends which resulted in the emergence of current economic systems, including modern socialism and capitalism after the Renaissance.

1 CREDIT

WORLD HISTORY: 1450 – PRESENT DAY
GRADES 10 - 11

This survey course covers the Renaissance to the present. The course focuses on providing students with a better understanding of contemporary times by evaluating events that have impacted the modern world. The student is given the opportunity to see the world in all its inter-relationships, rather than as isolated civilizations.

YEAR
1 CREDIT

AP EUROPEAN HISTORY
GRADE 11

This course imparts a framework for the understanding of world history viewed from a European perspective with special emphasis on the period covered by the advanced-placement examination (ca. A.D. 1450 to the present).

YEAR
1 CREDIT

ECONOMICS
GRADES 12

Focus is on the structure and functioning of capitalism as an economic system, traditional and modern economic theories and principles. Also, the technique for thinking about economics is introduced so that plausible conclusions can be drawn and events and decisions analyzed.

SEMESTER
½ CREDIT

GOVERNMENT
GRADE 12

Focus is on the development of an understanding of the way U.S. government institutions and the policy-making process lead to specific policy choices, i.e., on the policies of decision making. The impact of the Constitution and its interpretation are stressed, as is the uniqueness of the American system and the historical focus that has shaped its development.

SEMESTER
½ CREDIT

AP U.S. GOVERNMENT

GRADE 12

SEMESTER

½ CREDIT

This course explores the political theory and everyday practices that direct the daily operation of our government and shape our public policies. The express purpose of this course is to prepare students to take the AP exam for U.S. Government and Politics. The course is for all intents and purposes taught on a college level and requires a substantial amount of reading and preparation for every class. The objectives of this course go beyond a basic analysis of how our government “works”. The students will develop a critical understanding of the strengths and weaknesses of the American political system, as well as their rights and responsibilities as citizens. This course is a half-year course and is intended to coincide with a half-year of AP Economics. When taken together the series of courses will equal one full credit.

AP MICROECONOMICS

GRADE 12

SEMESTER

½ CREDIT

The advanced placement course will introduce students to the microeconomic concepts of demand, supply, market equilibrium, production costs, profit maximization, diminishing returns, and elasticity of demand. Also, covered in this course will be the importance of the marketplace, the three forms of imperfect markets, competition, the efficiency of markets, and market failure. Students will be expected to master graphing skills, analyze tables, charts, and schedules, and perform functions necessary to determine profit maximization. The ultimate goal of the students will be to take the Advanced Placement Exam in May in order to demonstrate their mastery of these microeconomic concepts.