

756 CONCERT CHOIR (CP)

2 Semesters

Credit 1.0

Prerequisite: chorus & audition

Concert Choir is the serious study of artistic music for the select chorus musician. This is an auditioned group of upperclassmen who show advanced skills in vocal production and score reading. They will study and perform advanced repertoire focusing on sacred and secular music ranging from 4 to 8 parts. There will be an emphasis on a capella singing. Choir members are required to participate in all concerts. They will also participate in community events and may travel to competitions or festivals. Students are highly encouraged to audition for the Connecticut All-State and Western Region honor choruses.

BUSINESS/COMPUTER SCIENCE**240 ACCOUNTING (CP)**

2 Semesters

Credit 1.0

This course is designed to provide the students with both knowledge and skills in elementary accounting and to enable them to manage their personal business affairs as well as to understand financial recording keeping practices in business. This course covers two types of business: proprietorship and partnership. A sole proprietorship business is presented in a complete accounting cycle. Students will analyze transactions, complete journal entries, posting, work sheets, bank reconciliation, financial statements and adjusting and closing entries. Students will also be introduced to accounting software to solve accounting problems.

605 COMPUTER LITERACY/WEB DESIGN (CP)

2 Semester

Credit 1.0

This course is a project based introduction to the fundamentals of web design using HTML as well as the basics of computing using Microsoft Word, Excel, and PowerPoint. Students will learn how to critically evaluate website quality, create and maintain quality web pages using the basics of HTML programming, understand web design standards and why they're important, create and manipulate images, and understand the fundamentals of graphic design. Students also will be able to navigate and take advantage of all the aspects of Microsoft Office programs to be used to create papers, documents, and projects throughout their education. The course will progress from introductory work on web design and Microsoft Office to culminating projects in which students will develop their own personal website incorporating projects being made on Microsoft Word, Excel, and PowerPoint.

606 DIGITAL SCHOOL PRODUCTIONS (CP)

2 Semesters

Credit 1.0

This collaborative photojournalism class has the primary goal of producing an accurate, thorough, and consistent record of the lives, emotions, and activities of the Immaculate High School students through the production of the yearbook as well as a weekly digital newsletter once the yearbook is completed. Students will have the opportunity to express their creativity while developing new skills in computer design, photography, editing, marketing, and budget management. Members of this class are expected to be responsible, self motivated students that work well in a group. They will develop leadership skills through managing their own individual projects as each student takes on their specific roles in the production of the yearbook and newsletter.

ENGLISH**111 ENGLISH I (CP)**

2 Semesters

Credit 1.0

This course is an introduction to basic concepts of literature and composition. Students read, analyze, and evaluate various genres of literature: short story, drama, novel, essays, poetry, biography, and autobiography. Review of basic grammar, as well as, unity and coherence in writing will be stressed. Other topics include study skills, use of the library, and vocabulary development.

112 ENGLISH I (H)

2 Semesters

Credit 1.0

In addition to the description above in English I, the Honors course will cover a unit on classical heritage including mythology, the epic, and Homer's *Odyssey*. Students will write an original short story and/or poem. They will present oral reports on mythology, poetry, and Shakespeare. There will be training in SAT tests. Independent reading is required throughout the year.

121 ENGLISH II (CP)

2 Semesters

Credit 1.0

English II is a logical development of the skills and critical thinking techniques acquired in English I. Students read and analyze literature according to genres; however, content will be slightly more sophisticated. In addition to grammar, writing, and vocabulary development, the mechanics of the research paper will be covered, and students will be required to produce a paper of moderate length.

122 ENGLISH II (H)

2 Semesters

Credit 1.0

Prerequisite: A in Eng.I (CP) or B in Eng. I (H)

English II Honors is an accelerated course which consists of in-depth analysis of challenging classical and modern readings. Students will examine textual and supplementary examples of short story, poetry, drama, non-fiction, novels, and medieval legends. Expository writing and the writing process will be emphasized, complemented by extensive vocabulary study. The students will read independently and will produce several small papers and one comprehensive research paper. Creative writing will include an original short story, poetry, and a one-act play. Students will also write and deliver persuasive speeches. Critical thinking skills will be emphasized in preparation for the PSAT and SAT.

131 ENGLISH III (CP)

2 Semesters

Credit 1.0

The junior level English III class surveys the tradition of American literature. Literary works are chosen to reflect the evolution of American thought within an historical setting. Reading selections are analyzed as representative pieces of American thought and literary movements from 1620 into the 1900s. Students will be required to produce a research paper and complete all outside assigned readings.

132 ENGLISH III (H)

2 Semesters

Credit 1.0

Prerequisite: A in Eng. II (CP) or B in Eng. II (H)

Literary works are chosen to reflect the evolution of American thought within an historical setting from the 17th to the 20th centuries. In addition to selections from the text, several novels/essays will be analyzed as representations of American thought and literary movements. Furthermore, the student will examine the role of the individual in American society, his search for identity, and his pursuit of the American Dream. The concerns of modern man as reflected in the literature of each era will be the focus of the short stories, poetry, non-fiction, drama, and novels for this course. Students will be required to do independent reading, write several papers, and deliver oral presentations.

133 AP ENGLISH LANGUAGE AND COMPOSITION

2 Semesters

Credit 1.0

Prerequisite: A+ in Eng. II (CP) or B+ in Eng. II (H)

In AP English Language and Composition, student reading and writing experiences focus on diversified prose. Teachers ask that students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts. Writing tasks give students the practice necessary to make them aware, flexible writers who can compose in different modes and for different purposes. In developing sophisticated reading and writing skills, students explore and describe how language works. They learn to observe and analyze diction and syntax that create subtle effects on language. AP students learn to describe language through discussion of rhetorical strategies and terms, demonstrating a working knowledge of parts of speech, structural patterns, awareness of connotation and shades of meaning in context. Attention will be focused on models from major American literature selections.

141 ENGLISH IV (CP)

2 Semesters

Credit 1.0

English IV College Preparatory surveys English literature in the Anglo-Saxon, Medieval, Renaissance, and Elizabethan periods, and the 17th, 18th, and romantic (19th) centuries. Students study the various literary genres in these periods, including English poetry, drama, the essay, short story, and novel. In addition, the student can expect to produce a major research paper, along with numerous other papers designed to develop the student's academic, as well as creative expression.

142 ENGLISH IV (H)

2 Semesters

Credit 1.0

Prerequisite: A in Eng. III (CP) or B in Eng. III (H) or AP Language

English IV Honors is intended for students of exceptional reading and writing ability. Like English IV College Preparatory, the course surveys English literature in the Anglo-Saxon, Medieval, Renaissance, and Elizabethan periods, and the 17th, 18th, and Romantic and 20th centuries, where students will study literary genres including English poetry, drama, the essay, short story, and novel. Independent study will be encouraged in addition to outside readings of critical analysis and comparative studies, as developed through expository and research papers.

143 AP ENGLISH LITERATURE

2 Semesters

Credit 1.0

Prerequisite: A+ in Eng. III (CP) or B+ in Eng. III (H) or B in AP Language

AP Literature and Composition is a college-level course for qualified, highly motivated seniors. Concentrating on British Literature, the course includes representative works in several genres: novel, short story, poetry, drama and essay. Students receive a list of required works to be read during the summer. In addition to close analysis of the representative works, frequent writing assignments develop the student's skills and style. Workshops will be used to develop additional skills required on the AP exam and to provide students with a more intensive writing experience. Students will produce a literary criticism research paper on an author of their choice.

156 COMMUNICATION WORKSHOP (CP)

2 Semester

Credit 1.0

The Communication Workshop course is a blend of the previously offered Public Speaking and Writers Workshop classes. Students will focus on improving and creating effective verbal and written communication skills, concentrating on organization, main idea development/elaboration, diction, grammar and mechanics. Rhetorical strategies and audience-appropriate tools will be utilized in individual, group, and formal presentations. Students will maintain a portfolio of diversified writing and speaking assignments, including major papers and projects.

WORLD LANGUAGES**314 FRENCH I (H)**

2 Semesters

Credit 1.0

Students are introduced to the skills of understanding basic spoken French, expressing their own ideas related to the topics studied in understandable French, and to reading and writing about essential concepts correctly. Vocabulary is student-centered, dealing with friends, family, shopping, eating, and daily activities.

In addition to learning grammar and vocabulary, the students use supplementary materials which introduce them to the culture and civilization of France and the countries where French is spoken. A major project focuses on Paris.

324 FRENCH II (H)

2 Semesters

Credit 1.0

Prerequisite: C+ in French I(H)

Students continue their study of French culture and language, adding mastery of more tenses and more advanced grammar concepts. Much additional vocabulary on many topics is added to the students' repertoire, and there is a continued emphasis on accurate pronunciation to reinforce their progress towards fluency in French.

During the second semester students will research, prepare and serve a French meal to their families, describing their efforts with French captions in a photo album they will create.

334 FRENCH III (H)

2 Semesters

Credit 1.0

Prerequisite: B in French II (H)

In the third year, students are challenged to grow in listening comprehension and communicative skills as their confidence and fluency in French increases. Longer readings, frequent short writing assignments, and daily use of the language will be standard. During the second semester, French becomes the main medium of communication for most purposes.

Students will be introduced to the remaining indicative tenses, including the literary tenses, and to the subjunctive mood. Students will learn how to respond effectively in French in many situations and predicaments.

The text will be supplemented with a variety of authentic French materials, including news articles, literature and film.

354 FRENCH IV (H)

2 Semesters

Credit 1.0

Prerequisite: B in French III (H)

This course is designed for students who enjoy French language and culture and wish to continue to improve their communication skills. In addition to continued speaking and listening practice with a practical cultural theme, students will view films and read literary selections and articles from various print and online sources. There will be an emphasis on the French language and the diversity of French culture around the world. French continues to be the main medium of communication.

Preparation for the SAT II and college placement exams will be included.

353 UCONN ECE FRENCH 3267

2 Semesters

Credit 1.0

Prerequisite: B+ in French III (H) and, for UCONN credit, compliance with enrollment and scholastic criteria

Designed for the responsible, superior student, this is a demanding course which can lead to a student's earning three hours of University of Connecticut credit provided the student enrolls in the class no later than the second week of September, pays the UCONN fee (expected to be \$75.00 for the 2009-2010 school year), and meets the required scholastic criteria.

From the UCONN French 3267 course description:

"The study of French and Francophone culture through fiction, non-fiction, journalism and film. Emphasis on perfecting both oral and written expression through discussion, presentations, and composition on assigned topics." **This class is conducted in French.**

343 AP FRENCH LANGUAGE

2 Semesters

Credit 1.0

Prerequisite: A in French III (H) or with the permission of the instructor

Students with a strong background in French may choose to prepare to take the AP French Language examination in May by following this intensive course designed to reinforce and perfect their French language skills. Students will concentrate on five areas of fluency: listening comprehension, advanced French composition techniques, French grammar, conversation and narrative expression, and reading comprehension and vocabulary building. This is an exciting challenge for the truly superior student. **The class is conducted in French.**

315 LATIN I (H)

2 Semesters

Credit 1.0

Latin is the key to the vocabulary and structure of the Romance languages and to the structure of all the Teutonic languages, as well as to the technical vocabulary of all the sciences and to the literature of the entire Mediterranean civilization, together with all its historical documents. Across the nation, studies have shown Latin to be effective in improving SAT scores. Studies conducted by the Educational Testing Service show that Latin students consistently outperform all other students on the verbal portion of the Scholastic Aptitude Test.

Students will learn the relationship of Latin to modern languages, with an emphasis on learning the basic structures necessary to their understanding of Latin and a greater appreciation and knowledge of English. The declensions of nouns and adjectives as well as the conjugation of verbs will be stressed. Students are introduced to translation as a tool for textual analysis. Topics on Roman culture, mythology and customs are integrated with the learning of the language.

325 LATIN II (H)

2 Semesters

Credit 1.0

Prerequisite: B in Latin I (H)

This course is a continuation of Latin I (H) with longer reading passages in both adapted Latin and original Latin texts. Students will demonstrate understanding by responding to comprehensive questions and writing simple Latin sentences. They will also practice listening comprehension and reading aloud. The study of Latin grammar continues with both the review of concepts previously learned and the introduction of new concepts. Cultural components of the course include the study of the influence of Rome and its language on American life in language, government, philosophy and the arts.

355 ADVANCED LATIN (H)

2 Semesters

Credit 1.0

Prerequisite: B in Latin II (H) or A in Latin II (CP)

Students will develop an appreciation for the Roman experience by a study of the life and times of Ancient Rome through literature. Grammar and translation are the focus and more complex grammar structures are introduced in additional reading. Oral and written reports will be required on topics relating to Roman culture.

319 INTRODUCTORY SPANISH (I CP)

2 Semesters

Credit 1.0

This course helps students to develop all four of the basic skills needed for success in second-language acquisition: listening, speaking, reading and writing. Vocabulary topics include talking about family, friends and possessions and communication about likes, dislikes, shopping and daily activities. Students also learn about the commonalities and differences between and among the various Hispanic cultures and our own.

326 FUNDAMENTALS OF SPANISH (II CP)

2 Semesters

Credit 1.0

Prerequisite: C in Introductory Spanish (I CP)

This course reviews and continues to build on the basic grammatical, vocabulary and syntactical concepts begun in the first year. Using for their studies the same textbook they used in Spanish I CP, students are introduced to several new grammatical concepts, and they learn how to talk and write about past events. Cultural comparisons and contrasts continue to be an important focus. Vocabulary and language structures used in a broader variety of everyday situations will be emphasized and practiced using all four major language skills.

322 SPANISH II (H)

2 Semesters

Credit 1.0

Prerequisite: B in Spanish I (H) or A in Fundamentals of Spanish (II CP)

Continuing the development of the skills taught in Spanish I (H) using pair and group activities, projects and presentations, students will practice new vocabulary and language structures used in many everyday situations. Grammar structures will be presented with greater emphasis on reading skills and quick recognition of meanings and cognates. Cultural aspects of the Spanish-speaking world are highlighted through student reports. Students are expected to maintain the accelerated pace begun the previous year.

330 INTERMEDIATE SPANISH (III CP)

2 Semesters

Credit 1.0

Prerequisite: C in Fundamentals of Spanish (II CP)

Continuing and reinforcing the work done in Spanish II, students continue developing the four language skills. More advanced grammatical structures are introduced and basic structures are reinforced. All aspects of the course, including projects, are presented in a cultural context which enhances the students' understanding of the geography, history and rich diversity in the Spanish-speaking world. Spanish is used as the medium of instruction as much as possible.

332 SPANISH III (H)

2 Semesters

Credit 1.0

Prerequisite: B in Spanish II (H)

This is an extensive and more challenging course for superior students who have excelled in Spanish II (H) and who plan to continue their study of Spanish at the most advanced levels. Communication skills are stressed while students practice and master more complicated grammatical structures. More difficult readings are presented. Class discussions and formal essays stress the utilization of the language and incorporate the diverse cultures of Hispanic countries. The goal is to make Spanish the main medium of communication in all listening speaking, reading and writing activities.

339 ADVANCED INTERMEDIATE SPANISH (IV CP)

2 Semesters

Credit 1.0

Prerequisite: C in Intermediate Spanish (III CP) or
C in Spanish III (H)

This course is designed for the student who enjoys Spanish language and culture and desires to continue study of the language in order to improve listening and speaking skills. In addition to continued aural and oral practice, students will read original and adapted literary works as well as current articles from Spanish newspapers, magazines and selected websites. Projects will concentrate on the target language and the diversity of cultures. Some preparation for the SAT II and college placement exams will be included.

341 SPANISH IV (H)

2 Semesters

Credit 1.0

Prerequisite: A+ in Intermediate Spanish (III CP) or
B in Spanish III (H)

The immediate precursor to Advanced Placement Spanish Language, this course is specifically designed for the highly motivated student who has successfully completed Spanish III (H) and plans to continue study of the Spanish language at the college level. Great emphasis is placed on aural and oral exposure to the language as well as on achieving mastery of the most complex grammatical structures in writing assignments. Thematic vocabulary acquisition continues with extensive, in-depth study and weekly assessments. Original works of Spanish literature are read and interpreted. All class activities use the Spanish language as much as possible as the vehicle for communication. The class will prepare for the SAT II exam and college placement exams.

351 AP SPANISH LANGUAGE

2 Semesters

Credit 1.0

Prerequisite: B+ in Spanish IV (H)

Having achieved success in the pre-AP sequence of courses, superior students increase their level of aural and oral proficiency, their interpretative and analytical skills and their writing ability using masterpieces of Hispanic literature and contemporary media resources, and extensive AP test review materials as a starting point. Intensive practice both in and outside the class concentrates on the skills necessary to prepare for the Advanced Placement examination given in May. Continued in-depth study of the most complex grammatical structures and additional broadening of vocabulary are stressed. In preparation for the class, students complete a comprehensive packet of summer reading and listen to a vast array of selected podcasts.

MATHEMATICS

COLLEGE PREPARATORY (CP) PROGRAM: This sequence of courses is offered for the college preparatory student. For all CP courses, except CP Algebra II, a grade of D will allow the student to pass into the next course in the CP sequence; however, in CP Algebra II students must achieve an average of C, before being allowed to pass into Math IV/TRIG. Any student in a CP mathematics course who has achieved an A average may request enrollment in the next honors course in the sequence; both the student's previous record in mathematics and the recommendation of his current mathematics teacher are considered in granting this request. Students, who have achieved an A average in CP Algebra II and Geometry, may enroll in Pre-Calculus (Honors), if they successfully complete a course in trigonometry during the intervening summer.

211 ALGEBRA I (CP)

2 Semesters

Credit 1.0

This course develops a background in basic algebraic skills: basic properties of real numbers; solving first-degree equations; word problems using first-degree equations; solving first-degree inequalities; word problems using first-degree inequalities; graphing linear functions in two variables; graphing linear systems in two variables; solving linear systems in 2 variables by substitution and linear combination; word problems using linear systems in two variables; operations with natural exponents; adding/subtracting/multiplying/dividing/rationalizing radicals; operations with polynomials; factoring polynomials; reducing algebraic fractions; operations with algebraic fractions; solving quadratic equations over the rational numbers by factoring; and word problems using quadratic equations.

221 GEOMETRY (CP)

2 Semesters

Credit 1.0

This course, sequential to Algebra I, is an integration of plane geometry with arithmetic and algebra. All of the basic concepts of geometry, such as points, lines, planes, angles, triangles, quadrilaterals, polygons, circles, area, congruence, similarity, formal proofs of theorems, constructions, areas and volumes of solids and trigonometric ratios of right triangles, are treated in this course.

231 ALGEBRA II (CP)

2 Semesters

Credit 1.0

This course, sequential to Geometry, offers a continued study of the skills and concepts of algebra: the solution of first- and second-degree equations; linear systems in two and three variables and quadratic systems with their applications to word problems; rational expressions; irrational, imaginary and complex numbers; functions with their applications; operations with rational exponents; and an introduction to analytic geometry through conic sections.

241 MATH IV/TRIG (CP)

2 Semesters

Credit 1.0

Prerequisite: Successful completion of Algebra II

This course, a functions approach to algebra and trigonometry, is offered to those students who passed Algebra II with an average of C or better. The following topics are covered: exponential and logarithmic functions with applications; sequences and series; trigonometry with both an analytic and triangular emphasis; complex numbers, including graphical representation, and polar notation.

This course is totally integrated with TI 84 plus calculator; therefore, all students must purchase a graphing TI 84 plus calculator to use in class on a daily basis. No instruction will be given on any other make or model.

246 PRE-CALCULUS (CP)

2 Semesters

Credit 1.0

Prerequisite: B in Algebra II (CP)

This course, a functions approach to advanced Algebra and Trigonometry provides an in-depth study of polynomial and rational functions, partial fractions decompositions, linear programming, exponential and logarithmic functions with applications, sequences and series, matrices and determinants. Additional emphasis is given to the trigonometric functions including the unit circle, graphs, identities, inverse functions and their graphs.

This course is totally integrated with the TI-84 plus calculator; therefore, all students must purchase a TI-84

plus calculator and a scientific calculator.

HONORS PROGRAM: This sequence of courses is offered to those students who have been recommended by the placement committee, the teachers of mathematics, and the chairman of the department. A final grade of D is accepted as a passing grade in all honors courses; however, any student who receives a grade below a B will not be recommended for the next course in the honors sequence.

222 GEOMETRY (H)

2 Semesters

Credit 1.0

Prerequisite: B in Algebra I (H) or A in Algebra I (CP)

This course, sequential to Algebra I (Honors), requires an in-depth study of all the topics covered in the CP Geometry course, but offers such additional topics as: elementary logic; 3-dimensional concepts; coordinate geometry; inequalities in geometry; locus of a circle; area of sectors; vectors; and a more comprehensive study of formal proofs of geometric theorems including a focus on writing indirect and paragraph proofs.

232 ALGEBRA II (H)

2 Semesters

Credit 1.0

Prerequisite: B in both Algebra I (H) and Geometry (H) or A in Algebra I (CP) and Geometry (CP)

This course, sequential to Geometry (Honors), requires an in-depth study of all the topics covered in the CP Algebra II course, but offers such additional topics as: algebraic proofs; solving polynomial equations; factor and remainder theorem; finding rational roots; analytic geometry; trigonometry of the right triangle and the circle, linear programming and applications of word problems relating to each topic studied.

242 PRE-CALCULUS (H)

2 Semesters

Credit 1.0

Prerequisite: B in both Algebra II (H) and Geometry (H)

This course, sequential to Algebra II (Honors), covers the following topics: numbers, axioms, relations, functions and their graphs, inverse functions, and composition of functions; circular and trigonometric functions, including complex numbers in polar form; DeMoivre's Theorem; graphs of polar equations; sequences, series, polynomial, exponential, and logarithmic functions and their graphs; and matrices. This course covers the curriculum of the College Board SAT Subject Test (Level II).

This course is totally integrated with TI 84 plus calculator; therefore, all students must purchase a graphing TI 84 plus calculator as well as a scientific calculator to use in class on a daily basis. No instruction will be given on any other make or model.

244 CALCULUS (H)

2 Semesters

Credit 1.0

THIS COURSE WILL NOT BE OFFERED IN 2010

Prerequisite: C+ in Pre-Calculus (H) or a B+ in Pre-Calculus (CP)

This course, sequential to Pre-Calculus, is an introductory college-level course intended for students who desire to enroll in a university Calculus course or in A.P. Calculus. The course contains an examination of polynomials; rational, exponential and logarithmic functions with an emphasis on the study of differential and integral calculus in one variable.

This course is totally integrated with the TI-84 plus calculator; therefore, all students must purchase a TI-84 plus calculator and a scientific calculator.

AP PROGRAM: AP Calculus is a college-level course designed for students with the highest ability and interest in mathematics and thus moves at a very rapid pace.

243 AP CALCULUS

2 Semesters

Credit 1.0

Prerequisite: B+ or higher in Pre-Calculus

This course, sequential to Pre-Calculus, prepares students for the Advanced Placement Calculus examination (AB level). Topics include: limits and continuity; the differential calculus of algebraic, trigonometric, exponential and logarithmic functions; anti-derivatives of algebraic, trigonometric, exponential and logarithmic functions; techniques of integration, definite integrals and numerical approximations. The derivative, as the slope of a function at any given point, and the definite integral, as the area under a function between any two given points, are regularly graphed and checked on a graphics calculator. Applications of derivatives and integrals are explored regularly.

This course is totally integrated with TI 84 plus calculator; therefore, all students must purchase a graphing TI 84 plus calculator as well as a scientific calculator to use in class on a daily basis. No instruction will be given on any other make or model.

RELIGION

Philosophy Statement

The objective of the Religion Department is to assist and guide the student to live their life as an active, participating member of the Roman Catholic faith. We achieve this objective by first, believing in the importance of academic study of Religion to encourage a deeper intellectual understanding of the Roman Catholic faith and secondly, to develop students awareness of their personal role and development in the Christian community.

An important goal of the Religion department is the development of the students "hands-on" faith experience; in light of this, students must complete a twenty-five hour *Opus Fidelium* requirement each academic year for a total of one-hundred hours of service during their high school career.

The successful completion of four years of Religion and one-hundred hours of *Opus Fidelium* is required of all students to meet graduation requirements.

011 RELIGION I: THE OLD TESTAMENT

2 Semesters

Credit 1.0

An overview of the Old Testament will provide the student with a solid foundation in the Biblical roots of the Christian religious tradition. Students develop a deeper appreciation of their relationship with the Holy Trinity – God the Father, His Son, Jesus Christ and the Holy Spirit. Knowledge and study of the Old Testament is essential for continued spiritual growth and faith development. Integrating Sacred Scripture into prayer life will be stressed.

021 RELIGION II: THE NEW TESTAMENT AND THE SACRAMENTS

2 Semesters

Credit 1.0

Students will explore the New Testament and gain a thorough understanding of the truth of God's revelation. The student will study the person, role, nature and message of Jesus the Christ. Students will also explore the development of Christology from the first century to the modern age. The Acts of the Apostles and the epistles will illustrate the role of the early Christian community in the formation of the Church.

Through the study of the Sacraments students will experience Jesus' continued living presence in the world. The development and historical significance of the sacraments, symbols, and rituals of the Roman Catholic Church will be explored.

031 RELIGION III: MORALITY AND THEOLOGY OF THE BODY

2 Semesters

Credit 1.0

Students will study the fundamental principles for living a moral life based on the Roman Catholic belief that we are created in the image of God. We begin with an introduction to the Theology of the Body to provide the basis for understanding our identity and moves to a study of Catholic Morality. Students will gain an understanding of the dignity of every human being as created in the image and likeness of God. Grounded in prayer and the study of the Church's moral teachings, students will deepen their process of moral development. In addition, students will be offered a broader insight into their role in the life of the Church, especially in the Eucharist and Sacrament of Reconciliation, as part of their ongoing moral development.

041 RELIGION IV: VOCATIONS AND SOCIAL JUSTICE

2 Semesters

Credit 1.0

The first semester will assist students in the exploration and understanding of God's call to a vocation as a Christian.

The second semester will explore the issues of peace, justice, racism, poverty, hunger, violence, war in the world today and the role of Catholic Social Teaching in addressing these issues by the Church.

SCIENCE

411 BIOLOGY (CP)

2 Semesters

Credit 1.0

The purpose of this course is to teach basic biological concepts, skills and facts, which enable the students to build competency in analytical and critical thinking and to apply their knowledge to the understanding of patterns and relationships. Emphasis is placed on fostering an awareness of the relevance of the study of biology to their lives.

The course begins with an overview of the characteristics of life and the diversity of living things. After mastering the fundamentals of organic chemistry, the students progress to the study of cellular structure and function as well as the production and consumption of energy by living things. Students then investigate basic genetic principles, modern genetics and applied human genetics. A study of evolution and an overview of the five taxonomic kingdoms complete the course.

Course requirements include daily homework, laboratory exercises, and maintenance of a complete notebook. The course grade is a weighted average of tests, quizzes, laboratory reports, homework, class work, and the mid-term and final examinations. CP Biology meets 6 periods per week.

412 HONORS BIOLOGY

2 Semesters

Credit 1.0

This course introduces the above-average freshman to the major biological principles: cells, evolution, genetic continuity, metabolism, and complementarity of structure and function. All levels of biological organization are depicted. Emphasis is placed on science as inquiry. Students perform approximately 30 experiments, covering basic laboratory skills, biochemical analysis, microbiology, microscope procedures, and an introduction to the Technological Computer Lab. In order to meet the demands of this laboratory program, Honors Biology meets 6 periods per week.

Homework is required daily; a written lab report is submitted following each experiment; each student is required to maintain a complete notebook. The course grade is a weighted average of the tests, quizzes, lab reports, homework, and mid-term and final exams.

421 SECOND-YEAR BIOLOGY (CP)

2 Semesters

Credit 1.0

Prerequisite: CP or H Biology

This course is offered to any student following the successful completion of CP or Honors Biology. The purpose of the course is to introduce the student to various aspects of biological science, which are not covered in our conventional one-year biology course. Using basic biological concepts, the student has the opportunity to investigate the broad spectrum of this science. An overview of the major kingdoms of life is offered along with a comprehensive study and comparison of the organ systems in various organisms with emphasis on human organisms.

As in any other college-preparatory course, requirements include daily homework, various laboratory exercises, and the maintenance of a complete notebook. The course grade is a weighted average of tests, quizzes, laboratory reports and worksheets, homework, class work, and a mid-term and final examination. Second-Year Biology meets 6 times per week.

422 HONORS CHEMISTRY

2 Semesters

Credit 1.0

Prerequisite: B in Biology (H) and 9th grade Honors Math Course or A in Biology I (CP) and CP Math

This course conceptually and mathematically analyzes basic chemical phenomena. Subjects thoroughly studied include the unit-analysis method of problem solving, measurement, atomic structure, the historical development of modern atomic theory, the periodic table, chemical bonding, and energy changes in chemical and physical changes. Skill in naming chemical compounds and writing balanced chemical equations is emphasized. Problem-solving skills are strengthened with the mole concept and stoichiometry. Both the behavior of various states of matter and the gas laws are studied with the kinetic molecular theory. Studies of solutions and acid/base chemistry are included. As time permits, additional topics as oxidation/reduction reactions, chemical equilibrium, nuclear chemistry, and organic chemistry, may be briefly covered.

During the year each student does approximately 30 laboratory experiments and submits a written report on the results. Homework is required daily and checked periodically. Each student is required to keep a complete set of notes. The course grade is a weighted average of the homework, tests, lab reports, and the mid-term and final examinations. Honors Chemistry meets six periods per week.

Equipment: each student must have a "scientific" calculator.

448 ENVIRONMENTAL STUDIES (CP)

2 Semesters

Credit 1.0

Prerequisite: Junior/Senior Elective

This course introduces the student to the multi-disciplined world of environmental studies. The lecture-discussion format is supplemented by group projects, AV resources, lab activities, independent studies and possible field trips and guest speakers. Topics in the first semester include: ecosystem dynamics, biogeography, natural resources and pollution, toxic wastes, and energy resources. Second semester topics center in our region, either Western CT or New England in general. They include: biogeologic history of CT, coastal marine ecology, and wildlife management. Good note taking skills and willingness to participate are expected. The grade is a weighted average of unit tests, classroom and independent assignments and the midterm and final exam.

431 CP CHEMISTRY (CP)

2 Semesters

Credit 1.0

Co-requisite: Algebra II or Honors Algebra II

This course conceptually examines the basic physical and chemical properties of matter and the energy changes that occur during phase change and chemical reactions. It includes the study of atomic structure, chemical bonding, naming compounds, equation writing, stoichiometry, the gas laws, kinetic theory, solutions, and acids and bases. Time permitting, electrochemistry, equilibrium, and elementary organic reactions are covered. The unit analysis problem solving approach is emphasized when appropriate.

Homework is assigned regularly. Each student does about 30 laboratory exercises during the year and submits a written report for grading. The final grade is a weighted average of the tests, quizzes, computer lab

exercises, lab reports, homework, and mid-term and final examinations. CP Chemistry meets six periods per week.

Equipment: each student must have a “scientific” calculator.

453 AP BIOLOGY (AP)

2 Semesters

Credit 1.0

Prerequisite: B+ in Honors Biology and Honors Chemistry, or A+ in CP Biology and CP Chemistry

This course prepares students for the Advanced Placement examination in Biology. The curriculum represents those topics covered in a college-level introductory Biology course: chemistry of life, cells, cellular energetics, heredity, molecular genetics, evolutionary biology, diversity of organisms, structure and function of plants and animals, and ecology. This course goes beyond the high school introductory Biology course in the breadth and depth of content studied, sophistication of the textbook, and the kind of laboratory work done by the students, as well as the time and effort required of the students. In order to meet the demands of the AP curriculum, this course meets 6 times per week. Students are expected to do considerable outside reading and independent learning.

In late May, students take the Advanced Placement Examination in Biology; however, the course grade is totally independent of the AP Exam: it is a weighted average of the homework, lab reports, tests, and the mid-term and final examinations.

463 AP CHEMISTRY

2 Semesters

Credit 1.0

Prerequisite: B+ Average in Honors Chemistry or Honors Physics

Co-requisite: Concurrent enrollment in Math IV/TRIG or Pre-Calculus

The major objective of this course is to provide a chemistry program to the students that is equivalent to a course taken during the first college year. This course prepares students for the Advanced Placement Examination in Chemistry. In order to do this in the time frame we have, there will be a summer assignment for each student to review the fundamental skills needed to be successful (first five chapters in the text with assigned problems). This will allow us to hit the ground running in the Fall. The course will differ from their first year course in chemistry with respect to the textbook used, the strong emphasis on chemical calculations, the mathematical treatment of problems, and the laboratory work performed by the students. It meets six periods per week.

In late May, students take the Advanced Placement Examination in Chemistry. However, the course grade is totally independent of the AP Exam. The final grade in the course will be determined by the quality of the student's lab reports, test and quiz grades, and the mid-term and final examination scores.

441 HUMAN ANATOMY & PHYSIOLOGY (CP)

2 Semesters

Credit 1.0

Prerequisite: Jr/Sr elective; B in CP Biology or C in Honors Biology. Chemistry is advised (can be concurrent)

This course is the logical gateway offering for any student considering a career in health studies, medical science, physical training or any other related field. Designed for highly motivated students, a review of human biological concepts learned in earlier courses is quickly followed by the study of human structure and function, both in health and illness. Lecture and lab activities will support all systems covered, as well as various research and independent work projects. In order to meet the demands of this laboratory program, Human Anatomy and Physiology meets 6 periods per week.

Expectations include prompt and complete submission of assignments, daily review of lecture/lab materials and a desire to fully involve oneself in the learning process. The course grade is a weighted average of tests, quizzes, laboratory reports, various homework assignments, and the mid-term and final examinations.

432 HONORS PHYSICS

2 Semesters Credit 1.0

Prerequisite: B average in CP Algebra II and CP Chemistry, OR B average in Honors Geometry or Honors Algebra II and Honors Chemistry.

Co-requisite: Concurrent enrollment in either Math IV/TRIG or Honors Algebra II.

This course mathematically analyzes basic physical phenomena: force, motion, energy, heat, waves, sound, light, electricity and magnetism. During the year each student performs approximately 35 experiments on these topics. In order to meet the demands of this laboratory program, Honors Physics meets 6 periods per week.

Homework is assigned daily; a comprehensive written lab report is submitted following each experiment; each student is required to maintain a complete notebook. Approximately 7 unit tests are given each quarter. The course grade is a weighted average of the homework, tests, lab reports, and the mid-term and final examinations.

Equipment: Each student must have a “scientific” calculator.

443 AP PHYSICS (AP)

2 Semesters Credit 1.0

Prerequisite: B average in Honors Physics; B average in Honors Algebra II or B+ average in CP Algebra II

Co-requisite: Concurrent enrollment in either Math IV/TRIG or Pre-Calculus.

This course, sequential to Honors Physics, prepares students for the Advanced Placement examination in Physics (B level). The curriculum represents those topics covered in a non-calculus college physics course: kinematics, dynamics, conservation of mechanical and heat energy, electrostatics, DC electricity, magnetism, waves, sound, optics, relativity and an introduction to modern physics. In order to meet the demands of the AP Physics curriculum, this course meets six periods per week. Throughout AP Physics strong emphasis is placed on “creative thinking”: the application of familiar principles in new situations, in which the student must devise a logical solution. Only students who enjoy this sort of challenge on a regular basis should consider AP Physics.

Homework is assigned daily; it consists of reading and outlining the textbook in advance of each lesson, and solving problems based on the material presented in class. Each student is required to maintain a complete notebook. Approximately 8 unit tests are given each quarter. In late May students take the Advanced Placement Examination in Physics (Section B); however, the course grade is totally independent of the AP Exam: it is a weighted average of the homework, tests, and the mid-term and final examinations.

Equipment: Each student must have a “scientific” calculator; graphics calculators are provided, as needed.

SOCIAL STUDIES

511 WORLD CIVILIZATION I (CP)

2 Semesters Credit 1.0

This course is designed to introduce students to the early “Cradles of Civilization”, ancient Greece and Rome, and the Middle Ages in Europe to the Renaissance. Students will also study Asian, African, and American civilizations in their pre-modern periods. The origins of world civilization will be examined to provide an understanding of the foundations of the modern world. A global approach is taken with particular attention to the geography of each civilization studied. Course requirements include text readings, regular homework, quizzes, and periodic testing. Several small projects may also be given as part of the course requirements.

512 WORLD CIVILIZATION I (H)

2 Semesters Credit 1.0

This course presents an advanced study of the early “Cradles of Civilization”, ancient Greece and Rome, and the Middle Ages in Europe to the Renaissance. Students will also be introduced to Asian, African, and American civilizations in their pre-modern periods. The origins of each civilization are examined in depth in order to provide an understanding of the foundations of the modern world. Students enrolling in this course should have above average proficiency in reading comprehension, geographic literacy, oral, and written communication. Students also should be capable of critical reading and thinking, independent research and analysis, as well as fluency of expression. Course requirements include text readings, written homework, quizzes, and regular testing on each area studied. In addition, outside research will be assigned as part of the course requirements.

552/510 REGIONAL STUDIES: THE AMERICAS(CP)/AMERICAN GOVERNMENT (CP)
2 Semesters Credit 1.0 Sophomores

This course combines Regional studies: Americas (CP) with American Government (CP) for sophomores only. Both courses are 1 semester each and offer .5 credits each.

Regional Studies: Americas (CP) introduces students to the major nations comprising North America: The United States, Canada, and Mexico. The physical and political geography, economics, and cultural problems of the region will be discussed. Particular emphasis is placed on the physical and political geography of each nation. In addition, there will be an introductory unit on map skills, climate, landforms, languages, and religions of the areas prior to the individual study of each nation. Course requirements include text readings, regular homework, quizzes, and periodic testing. A mini-project will also be scheduled in the semester.

American Government (CP) is a one semester course and a general introduction to American Government. It provides a description of the framework within which political decisions in the U.S. are made. Students will become aware of their basic rights, duties, and responsibilities as American citizens. Topics will include: the basic principles of government, the U.S. Constitution, the three branches of government, the differences between personal liberties and justice, as well as election campaigns and voting. Course requirements include text readings, note-taking, regular homework, quizzes, and periodic testing.

553/509 REGIONAL STUDIES: THE AMERICAS (H)/AMERICAN GOVERNMENT (H)

2 Semesters Credit 1.0 Prerequisite: B in social studies course(H) or A in social studies course(CP)

This course combines Regional studies: Americas (H) with American Government (H) for sophomores only. Both courses are 1 semester each and offer .5 credits each.

Regional Studies: Americas (H) is an in-depth analysis of the major regions comprising North America: The NAFTA nations of the U.S., Canada, and Mexico. A short introductory unit will be given on map skills, climate, environment, major landforms, and religions of these nations will be given prior to the individual study of each country. Historical, cultural, and current issues of each region will also be analyzed including immigration, patterns of human settlement, economic activity, land use, physical and political geography, and the politics of each nation will be covered. Course requirements include text readings, regular homework, quizzes, and periodic tests. A written project on each nation studied will be required of each student enrolled in this class. In addition, weekly current events discussions with news article summaries as well as outside readings will be given on a regular basis.

American Government (H) is an in-depth study of the government of the U.S. with emphasis on individual rights and liberties. Students will study the Bill of Rights, the Constitution, the federal court system, landmark Supreme Court cases, political parties, mass media and public opinion, executive and legislative branches of government and comparative economic and political systems. Students will be expected to participate regularly in class discussions and deliver at least one oral presentation to the class during the marking period. Students will also complete essays on each topic covered in the semester. In addition, students will analyze and write personal reflections on the importance of various landmark Supreme Court cases such as *Gideon v. Wainwright*, *Miranda v. Arizona*, *Marbury v. Madison* among others. Students will take regular tests and quizzes consisting of multiple choice, matching and short answer responses.

544/510 U.S. ISSUES (CP)/ AMERICAN GOVERNMENT (CP)

Offered in 2010 only

2 Semesters Credit 1.0 Juniors/Seniors

This course combines U.S. Issues (CP) with American Government (CP) for juniors and seniors only. Both courses which must be taken together are 1 semester each and offer .5 credits each. All juniors and seniors who have not taken an American Government course must take this course or AP American Government and Politics to meet the graduation requirement.

Students in U.S. Issues (CP) make an in-depth analysis of current issues on the American political, social, and cultural agendas. Emphasis is placed on the study of recent American history (1945 to the present) as the basis for contemporary American perspectives. Issues studied include domestic social issues such as Civil Rights, changing family structures, immigration, etc. Guided and independent research supports the course topics throughout. Textbook and regular testing is required. Students will perform research on all the topics covered in the course. Additional outside reading is stressed as preparation for classroom discussion of the issues.

American Government (CP) – For a description of this course, please see American Government (CP) under the description for Regional Studies: Americas (CP)/American Government (CP).

531 U.S. HISTORY (CP)

2 Semesters

Credit 1.0

This course, or U.S. History (H) or U.S. History (AP), is a requirement for graduation. The college-preparatory level offers a survey of American history from the European Age of Exploration through the 20th century. Emphasis is placed on the growth of the United States from its founding to its present position as a world leader. In addition to taking regular tests, students are also required to complete regular reading and written assignments. Additionally, students may be asked to do independent research projects.

532 U.S. HISTORY (H)

2 Semesters

Credit 1.0

Prerequisite: B in social studies course (H) or A in social studies course (CP)

This course, or U.S. History (CP) or U.S. History (AP), is a requirement for graduation. The honors level course offers a more detailed approach to American history from the European Age of Exploration through the 20th century than the survey style of the college preparatory course. Emphasis is placed on the growth of the United States from its founding to its present position as a world leader. In addition to taking regular tests, students are required to complete regular reading and written assignments. Additionally, students are asked to complete at least one major research project on the honors level.

533 U.S. HISTORY (AP)

2 Semesters

Credit 1.0

Prerequisite: B+ in Eng. II (H) or A+ in Eng. II (CP)

The advanced-placement (AP) level course is an in-depth examination of American history from the Age of Exploration to the present, emphasizing political, social, economic, diplomatic, and intellectual interpretations of events. Students are required to do extensive reading and essay assignments at an advanced level, in order to develop the reading-comprehension and writing-proficiency skills required on the three-hour Advanced-Placement Test given in May (optional). A successful performance on the AP exam may earn college credit and/or advanced placement in college for the participating student. Should summer reading be required, students would be tested on that assignment soon after beginning the school year.

554 GLOBAL STUDIES (CP)

2 Semesters

Credit 1.0

Juniors/Seniors

The twenty-first century has transformed how people live, work, and think. More than ever before, interactions between cultures transform our ideas, our values, our technology, and our way of life. This elective provides students with an introduction to world geography with the first semester's emphasis placed on the political and physical geography of such areas as Europe, Asia, Pacific Rim nations and Northern Africa. The second semester of the year-long course will provide students an opportunity to analyze the enduring problems and controversial issues that affect the regions being studied in the course. Major issues that could be covered in the course include: human rights, AIDS/disease, global terrorism, environmental stress, gender equality, trafficking in human slavery, political conflicts and unrest and the global economy. Students will play a significant role in shaping their own learning experiences. Active participation in class discussions, debates, and collaborative learning projects will be ongoing.

Students will be quizzed and tested on the geography of the regions as well as position papers on each topic covered in the second semester. Every student will make at least one oral presentation to the class and read a wide variety of publications to be knowledgeable about the regions studied in the course.

555 20th CENTURY EUROPE (H)

2 Semesters

Credit 1.0

Prerequisite: B in social studies course(H) or A in social studies course(CP)

This course offers the student an in-depth examination of the major events that shaped European history throughout the 20th Century. It attempts to offer explanations on how Europe was transformed from its position from the pinnacle of world domination in 1900 to a much more modest member of the world community at the beginning of the 21st Century. A concentration on the two world Wars that weakened Europe as a whole is examined in detail, as is the period between the wars, and the post-world War 2 era to the present. Students will utilize a variety of source materials and higher thinking skills in reading, writing, computer research, and discussion. Outside projects may be additionally assigned as part of the course requirements.

562 AMERICAN GOVERNMENT AND POLITICS (AP)

2 Semesters

Credit 1.0

Prerequisite: B+ in Eng.(H) or A+ in Eng. (CP)

Prerequisite: American Government or concurrently taking American History

This course in government and politics provides the student with a variety of theoretical perspectives and explanations of the general concepts used to interpret and analyze U.S. politics with its various institutions, groups, beliefs, behaviors, parties, interest groups, mass media, and the Internet. Particular attention will be paid to the interaction between the various branches of the federal government. The role of Congressional committees, Executive departments, and judicial oversight will be explored. The methods by which the individual can affect government policy and the importance of public opinion will be the focus of our study. Student will prepare for the Advanced-Placement Test given in May (optional). A successful performance on the AP exam may earn college credit and/or advanced placement in college for the participating student.

573 ADVANCED PLACEMENT PSYCHOLOGY

2 Semesters

Credit 1.0

Prerequisite: B+ in Eng. II (H) or A+ in Eng. II (CP)

Psychology is the study of the reasons people behave as they do. What effects does their behavior have upon the lives of others, as well as upon themselves? This course explores these basic questions as well as other topics dealing with human behavior, including states of consciousness, memory, intelligence, personality theories, behavior disorders, and their treatments. The class focuses on the ways in which psychology operates in everyday life. In addition to lectures, teaching strategies include videotapes, interviews, debates, and other active learning exercises. Evaluation is based on class participation, short papers, regular tests, and quizzes.