

Hudson Catholic Regional High School

Course Selection Catalog 2009-2010



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This academic catalog is published to help students and their parents/guardians during the course selection process for the 2009-2010 school year. Be sure to read and understand it completely and to use it well in preparing the student's course of studies for next year. Wise choices demand a realistic appraisal of the student's past records, present aptitude and future goals.

Parents/guardians, teachers, counselors, administrators, and students all have roles to play in this process of course selection. Present teachers can offer realistic advice about future courses given what they have observed of the student in their classes. Teachers of the courses being considered can advise about the requirements of their classes and the performance standards they hold. The guidance counselors are well-informed about general college and career requirements, while I can offer supervisory guidance as to whether a student's course of studies appears consistent with a college preparatory curriculum and his or her own academic record.

This catalog ends with a list of the required and elective classes that will be offered in the new school year if numbers warrant. Accelerated courses are listed as Honors (H or Hon). In addition, the national Advanced Placement Program (AP) provides an opportunity for students to pursue college-level studies while at Hudson Catholic. Based on the outcome of a national examination, these students may receive university level credit for high school courses that carry the AP designation. Students taking AP courses learn those subjects at a more sophisticated and analytical level, at greater depth, and with more intensity. For these courses, certain prior qualifications (including average in subject) and teacher/departmental approval are required. Registration for the examination in May is also mandatory. cr = credits.

Subject selection requires careful consideration over the course of the several weeks we will devote to it. Once parents/guardians, faculty, and students have submitted their course verification sheets to me, they should be considered final. Changes come through the Academic Dean's office only and require a \$25.00 late fee if approved. No fee is charged if a student schedule must be changed because of low enrollment in selected courses or schedule conflicts which become apparent over the summer.

Sincerely,

Philip Gazzale

Mr. Philip Gazzale
Dean of Academics

PHYSICAL EDUCATION/HEALTH COURSE OFFERINGS

011 - Physical Education/Health 1 **cr. 2.50** **Grade 9**

Physical Education 1 serves as an introduction to all the games and activities that a student will participate in while he is a student at Hudson Catholic. The student will be introduced to all the basic skills needed to perform these activities and will also become fully aware of all the rules and regulations of the entire Physical Education Program. Health 1 deals with the study of the following topics: smoking, alcohol, drugs and nutrition.

021 .Physical Education/Health 2 **cr. 2.50** **Grade 10**

Physical Education II is an introduction to the concept of team play in athletics as well as an introduction to the conditioning process. The student is encouraged to work on individual skills in all activities to find out what type of conditioning process is best for him. Health 2 deals with the following topics: driving privileges, traffic control devices, driving rules and regulations, defensive driving, adverse highway conditions and handling emergencies, buying and insuring a car, AIDS education and conditioning for life.

ENGLISH DEPARTMENT COURSE OFFERINGS

110 Honors English 1 **cr. 5.00** **Grade 9**

Honors English 1 is a challenging course that will introduce the students to the fundamentals of writing and grammar as well as exploring traditional and contemporary literature in a variety of literary genres. The course will mainly focus on the three major types of literature: drama, poetry, and prose. Material that will be covered ranges from the works of Shakespeare to Poe to the contemporary and local literature of Walter Dean Meyers. Students will be asked to express their opinions on the material in a mixture of examinations consisting of oral presentations, projects, quizzes, tests, papers, homework and in-class activities.

Prerequisites: Entrance test scores and previous academic record.

114 English 1 **cr. 5.00** **Grade 9**

This course introduces students to various types of vibrant literature, including the novel, short story, poetry, nonfiction and drama. The literature functions as a point of focus for developing thinking, speaking, viewing, vocabulary, listening and writing skills. Writing experiences are designed to develop growth in sentence-structure, grammar, mechanics and creativity. Throughout all freshman language arts activities, emphasis is placed on developing the kinds of critical thinking skills necessary for success in college. Students are placed in appropriate groups according to their previous academic records and the entrance exam.

Prerequisites: Entrance test scores and previous academic record.

120 Honors English 2 **cr. 5.00** **Grade 10**

This course is a challenging course that covers various pieces of literature with a concentration on American Literature. Students will examine classic and contemporary works by a variety of authors. Writing skills will be honed through the production of longer paragraphs and essays that will help students become more proficient in grammar, vocabulary, and usage. Independent reading for enjoyment is a vital component of this course. It will be assumed that since this is an honors course, the students will be knowledgeable in correct writing techniques. It will also be assumed that they are motivated and ready to face the challenge that awaits them. A term project will be required consisting of each student creating an original short story complete with a well developed plot, characters, theme and effective use of other literary techniques.

Prerequisite: Recommendation of English 1 instructor.

122/124 English 2**cr. 5.00****Grade 10**

This course surveys American Literature from its origins to today and, in the process, continues the in-depth study of literature and language begun in English 1. Students examine works of classic and contemporary American authors. Writing skills continue to be honed through the production of longer paragraphs and essays that help students become more proficient in grammar, paragraph development and usage. In addition, independent reading for enjoyment is a vital part of the course.

130 Honors English 3**cr. 5.00****Grade 11**

This course focuses on the expansion of critical thinking skills within a demanding writing based curriculum. By integrating argumentative, creative, and thesis based essays, students will prepare for college level assessment. The development of public speaking skills and use of advanced vocabulary will also be a primary focus. Novels will include a diverse selection from a variety of British authors ranging from Anglo-Saxon Period to the Modern Period. SAT prep will be an integral component of this course.

Prerequisite: Recommendation of English 2 instructor.

132/134 English 3**cr. 5.00****Grade 11**

This course builds on the critical, creative and basic skills developed in English 1 and 2 by integrating language arts study in a survey of British literature. The selections range from the Anglo-Saxon Period to the Modern Period. Critical reading once again centralizes the development of writing, thinking, viewing, listening, and speaking skills and vocabulary development. A strong, self-scrutinizing attitude is fostered in writing assignments. Sentence-structure, paragraph form, and grammar are emphasized in extended pieces of exposition, description, argumentation and narrative. SAT prep will be an integral component of this course.

140 Advanced Placement English**cr. 5.00 Grade 12**

The Advanced Placement Literature course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts and extensive writing, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Since an Advanced Placement course is an introductory college course, the work is quite demanding. **Students will take the Advanced Placement English Exam in the spring.** The exam provides the opportunity to earn college credits or placement. Considerable summer reading is required. *If you want to take this course, ask your English teacher and the current Advanced Placement English teacher if you are approved to apply for it.*

142 English 4**cr. 5.00****Grade 12**

English 4 is a course in multi-cultural literature, which includes works by authors in all literary genres. These selections are organized by culture and chronology to present the literature of the world in a cultural and historical context. Emphasis is given to the unique and varied cultural expressions found in literature. Students express thoughts and ideas orally and through a writing program, which is coordinated with the literature. Research skills, expository writing, and the research paper are stressed in the writing program. The systematic study of grammar-review and a program of vocabulary development extend and support the writing program and strengthening of oral language expression.

144 Literature and Film**cr. 5.00****Grade 12**

This course will examine and analyze major pieces of literature and their film adaptations. Students will express thoughts and ideas orally and in writing. Comparisons and contrasts will be discussed with emphasis on the author's and filmmaker's point of view. A written term project will be required. In addition, students will have the opportunity to create an original short film as a group project. Prerequisites: You must have the approval of the instructor and your current English 3 teacher. Minimum of 85% in your

154 Journalism**cr. 2.50****Grades 11, 12**

Journalism will get you writing quickly and confidently. It is a comprehensive approach to learning the fundamentals of news writing. The course emphasizes reportorial writing, information gathering, and interview techniques. It will focus on the current reporting style of the new millennium. It will also use old styles as references. The course will discuss text readings, writing assignments and a wide variety of problem areas in journalism. We will interview people inside and outside of the school, watch videos on how to report at a live scene, express our opinions in debates and our writing, and create a class newspaper at the end of the semester. One of the wonderful things about this class is that you will meet people, hear stories, and have unique experiences. Prerequisites: A grade of 85% in the prior year's English class. Recommendation of current English teacher

156 Creative Writing**cr. 2.50****Grades 11, 12**

This course will be the focus of an intense writing based curriculum, one that harnesses the creativity of the written word. The literature of this course will be comprised of a diverse selection ranging from poetry, to short stories, to philosophical and metaphorical texts. Though the analysis of creative literature will be imperative, the majority of work expected from students will derive from their own creativity and experiences. The ability to think abstractly, while having the desire to express one's self through poetry, free verse, and journal reflections will play a critical role in the success of this unique course.

Prerequisites: A grade of 85% in the prior year's English class. Recommendation of current English teacher

170 Language Study**cr. 5.00****Grade 9**

Required for freshmen who have demonstrated a need to achieve a level of reading competency necessary for high school, this course includes: developing study skills, improving comprehension powers, improving vocabulary development and increasing reading rate. The program aims to encourage positive reading habits and to strengthen reading in the content areas. Prerequisites: Placement test scores and previous academic record.

SOCIAL STUDIES DEPARTMENT COURSE OFFERINGS**210 Honors World History****cr. 5.00****Grade 9**

A full-year course for accelerated students, the emphasis in Honors World History is on social studies skills development, but a wide scope of historical references is offered as well as an examination of current world events and the many ethno-cultural influences in our world. The following topics are covered: 1) a survey of man's history from his advent on this planet to the present day, (man's evolution to the dawn of modern history with special emphasis given to ancient-classical and medieval civilizations); 2) reading comprehension in the content areas; study techniques; social studies research techniques; world geography; map, chart, and graph skills and lastly a knowledge and interpretation of current events. Prerequisites: Entrance test scores and previous academic record.

214 World History**cr. 5.00****Grade 9**

A required course for all freshmen, this course includes topics covered in Social Studies 210.

220 Honors U. S. History 1**cr. 5.00****Grade 10**

A full year-course, this course will present a chronological approach to the study of American History, from Colonization through "The Gilded Age". At the conclusion of the course, students will be expected to: identify, interpret and explain the U. S. Constitution; explain how our system of government operates; analyze and explain the growth of America as a political and economic power; identify and analyze important issues in American Foreign Policy today; state and explain their personal opinions on an issue. Prerequisite: Departmental approval.

222 U. S. History 1**cr. 5.00****Grade 10, 11**

A full-year course required of all sophomores, the course covers the same content areas as Social Studies 220.

230 Advanced Placement American History cr. 5.00 Grade 11

This is a full-year course, which will take a chronological approach to the study of American History, beginning with the Spanish-American War (1898) and ending with the current year. At the conclusion of the course, students will be expected to: recognize the basic principles on which this country was founded and to relate the principles to our present system of government; to identify the various problems that the United States has faced throughout her history and to realize how these problems were dealt with; to realize that America is a conglomerate of many ethnic groups which directly results in a diversity of culture; to relate American democratic principles to our dealings with other nations and peoples in an unbiased and truthful manner; to identify and explain the strengths and shortcomings of American policies both national and international; and finally, to view the national and international conflicts that the United States has faced through her history, and to demonstrate how our government today has utilized these conflicts toward the development of a better society. The course will follow the AP American history syllabus. The students will take the Advanced Placement American History exam in the spring.

Prerequisite: Honors U.S. History 1 & Departmental Approval.

232 U. S. History 2 cr. 5.00 Grade 11.12

A full-year course required of all juniors, the course covers the same content areas as Social Studies 230.

242 Psychology/21st Century Issues cr. 5.00 Grades 11. 12

Divided between an introduction to the study of human behavior and the study of how nations behave toward others and themselves, the material covered in Psychology will include, but is not limited to: defining and learning vocabulary terms associated with psychology; behavior development; personality development; measuring intelligence and evaluating behaviors; the process of thinking; emotion and motivation, frustration and conflict; personality disturbances and treatments; forces in social and group behavior; the role of psychology in shaping popular opinion in advertising and the media; psychology in everyday life.

The specific topics covered in 21st Century Issues each year will vary widely to reflect the critical issues of the day. They will include, but in no way will be limited to: America's role in the post – Cold War World; nuclear proliferation and efforts to control it; U.S. policy toward its allies; U. S. policy toward developing nations; international economic relationships and problems; key issues in American defense policy; terrorism as an international issue; distinguishing news from propaganda in international relations; identification of ongoing “hot spots” in world affairs; identification of key figures in world politics; use of vocabulary involved in discussion of international developments.

245 US Civil War/World War II cr. 5.00 Grades 11, 12

Divided between the study of two great wars, this course provides critical insights into the history of the United States. In the civil war portion, slavery, States' Rights, The Abolitionist Movement, political differences and key personalities of the time period will be investigated. A strong emphasis will also be placed on the military dimension of the war with key battles being studied and their effect on the outcome of the war. The WW II covers the growth of Fascism and the plans of the Axis Powers toward global domination along with the idea of appeasement and its failure to maintain peace. Pre-War Axis aggression's which led the world into military conflict will be the next topic followed by the early stages of the war in which the Axis was very successful. The United States' early involvement will be covered from the Isolationist Movement to the support of the Allies. The United States entering the war and its turning point will be covered. The final topic will be the military campaigns that led to the defeat of the Axis Powers in Europe and the Pacific Ocean

250 Advanced Placement European History cr. 5.00 Grades 11. 12

This full-year course investigates the following topics of historical importance: The transformation from Medieval to Modern society; the Renaissance, Reformation and Age of Exploration into the Sixteenth

Century; Politics and Absolutism in the Seventeenth Century; the Scientific Revolution; the Enlightenment and Intellectualism of the Eighteenth Century; the French Revolution and the Age of Napoleon; Reaction, Reform, Revolution and Romanticism: 1815-1914; Industrialization and Social Change throughout the Nineteenth Century; the National State, Nationalism, and Imperialism: 1850-1914; Culture, Thought, and Society: 1850-1914; War and Revolution: 1914-1920; Democracy, Depression and Instability: the 1920's and 1930's; Totalitarianism during the first half of the Twentieth Century; World War 2 and the Postwar World; and finally, the Present in Perspective. Students are required to read, analyze, discuss and interpret a series of primary and secondary sources through oral presentations and formal written reports and papers. **Students must take the AP Exam.**
Prerequisite: An average of 85% in social studies courses and department approval required.

260 Integrative Seminar **cr. 2.50** **Grade 10**

Designed for the students in the Scholars' Program during their sophomore year, the course explores thematically the development of the humanities and the sciences are explored from the Ancient World to the Renaissance. An interdisciplinary approach with different faculty members presenting material in their academic areas is used in this course. Field trips supplement in-class experience.

280 Economics & Marketing **cr. 5.00** **Grade 11, 12**

The study of economics and marketing go hand in hand. The subjects deal with the process of planning, pricing, promoting, selling and distributing ideas, goods, or services to create exchanges that satisfy customers. This course is designed to introduce students to the foundations of economics and marketing. These foundations are business, management and entrepreneurship; communication and interpersonal skills, and professional development. Any student interested in pursuing a career in business should consider taking this course.

WORLD LANGUAGE DEPARTMENT COURSE OFFERINGS

321 Spanish 1 **cr. 5.00** **Grade 9.10.11**

A proficiency based approach is used for students who have never studied Spanish before. The course emphasizes the development of listening, speaking, reading, and writing through a proficiency based approach. Oral exercises stress both proper pronunciation and spontaneous responses. The students also learn about life in Spanish-speaking countries as well as the Hispanic presence in the United States today. Multi-media components are integrated throughout.

330 Honors Spanish 2 **cr. 5.00** **Grade 10. 11**

With an accelerated pace, the teacher introduces the following new material: possessive adjectives, present tense of some irregular and stem changing verbs, reflexive verbs, expressions with tener, direct and indirect object pronouns, correct use of ser and estar, comparisons, demonstrative adjectives, present progressive tense, informal commands and the preterite tense. In addition, a cultural awareness of Latin America and the Hispanic influence in the USA is developed. Prerequisite: Approval of Spanish 1 teacher.

332 Spanish 2 **cr. 5.00** **Grade 10,11,12**

This course covers essentially the same content areas and approach as Honors Spanish 2 (330) but at a regular pace. Prerequisite: Approval of Spanish 1 teacher.

340 Honors Spanish 3 **cr. 5.00** **Grade 11, 12**

This elective course continues the development of skills begun in Spanish 1 and 2. It is on this level that more sophisticated reading is done and controlled composition is practiced. Grammatical structures include conditional,

future and perfect tenses; imperative and subjunctive mood; passive voice; preterite versus imperfect. The ability to communicate in oral and written form is the main goal of the course.

Prerequisite: Approval of Spanish teacher.

390-AP Spanish **cr. 5.00** **Grade 12**

Depending on student interest and qualifications, this capstone course in the Spanish language can be offered to qualified students. The course will focus on advanced composition and conversation. Grammar continues to be developed and more literature is introduced. Students can have the option of taking the Advanced Placement examination. The offering of this course will depend on sufficient student interest, enrollment and staff availability.

Prerequisites: Approval of Spanish 3 teacher.

350 French 1 **cr. 5.00** **Grade 9, 10, 11**

This course offers an integrated approach to language learning. Presentation and practice of functional expressions, vocabulary and grammar structure are interwoven with cultural information. The technology, audiovisual materials, and additional resources integrated throughout this course allow students to be exposed to a variety of learning styles. Prerequisite: Department approval.

360 Honors French 2 **cr. 5.00** **Grade 10, 11, 12**

This course is a continuation of Honors French 1. The class covers new functional expressions, vocabulary, grammatical structures and cultural information. The use of technology, audiovisual materials, and additional resources continues. Prerequisite: Approval of French 1 teacher.

370 Honors French 3 **cr. 5.00** **Grade 11, 12**

This course reviews the foundations of grammar and builds upon them, introducing advanced topics such as imperfect vs. passé compose, the subjunctive, multiple-object pronouns, etc. Increased use is made of idiomatic expressions, oral and written use of the language. Emphasis is put on a practical, travel vocabulary along with an introduction to French Literature. More attention is given to French civilization, its influence in the past and its value at present. Prerequisite: Approval of French 2 teacher.

380 Honors Latin 1 **cr. 5.00** **Grade 9**

This course is designed for incoming freshmen in the Scholars' Program; it is also open to qualified upperclassmen. Its aim is to introduce students to the study of the Latin language, its forms and syntax, and to develop the ability to translate selective passages from Latin to English, and English to Latin. A subsidiary goal of the course is to reinforce English language skills by pointing out and drilling students in Latin vocabulary related to English cognates. The course will also emphasize the contributions of Roman culture as the most important route to Western Civilization. Prerequisites: Entrance test scores and previous academic record.

MATHEMATICS DEPARTMENT COURSE OFFERINGS

410 Honors Algebra 1 **cr. 5.00** **Grade 9**

Honors Algebra 1 is a required full-year course designed to meet the needs of students who have demonstrated high math ability. The course is designed to further develop the student's problem-solving skills through the analysis of properties of real numbers, equations, inequalities, polynomials and their factors, quadratics and functions. In addition, some exercises will challenge the student to demonstrate insight into the logic of mathematics.

Placement by entrance test scores and previous academic record.

414 Algebra 1**cr. 5.00****Grade 9**

The course covers the basic properties of real numbers, order of operations, reflexive, commutative, and distributive laws. Solutions of first degree equations, inequalities, polynomials, and operations on polynomials are treated. Polynomials and their factors as well as computational procedures of rational expressions are also covered. Solutions to simple systems of equations and the graphing of such solutions are thoroughly covered. Problem solving techniques are integrated throughout the course with an emphasis on structuring the equation to solve the problem. The course closes with a study of quadratic equations and their solution by factoring and use of the quadratic formulas.

420 Honors Algebra 2/Geometry**cr. 5.00****Grade 10**

This course is designed for the student who wishes to study mathematics in depth and will later pursue higher levels of mathematics. Topics covered in algebra include systems of linear equations and inequalities, polynomials, rational expressions, radical and complex numbers. Topics included in geometry include points, lines, planes, angles, parallel lines and planes, congruent triangles, similar polygons and circles. Prerequisites: 85% or better average in Honors Algebra 1(410) or departmental approval.

422 Geometry**cr.5.00****Grade 10**

Students are introduced to Euclidian Geometry, its theoretical and practical aspects. Topics covered include lines, angles, parallel lines, perpendicular lines, congruent triangles, polygons, quadrilaterals, similar polygons, circles, areas and volumes of various geometric figures in both two and three dimensions. Emphasis is placed on development of the structure of geometry from axioms and theorems. Prerequisite: 80% or better in Algebra 1(414).

426 Algebra 1. Part 2**cr. 5.00****Grade 10**

This course is designed for students who need continued development. It begins with a thorough review of the concepts taught in Algebra 1, Part 1 and then focuses on the study of elementary algebra with emphasis on simple graphing, equations with two variables, working with fractions, squares and square roots and quadratic equations. Problem solving techniques are covered throughout the course. Prerequisite: Algebra 1, Part 1(416) (PLEASE NOTE: ALGEBRA 1, PART 1 HAS BEEN PHASED OUT).

432 Algebra 2**cr. 5.00****Grade 11,12**

The second-year algebra course is required for all students with a general mathematical ability. It is a college preparatory course offered with the intent of giving the student proficiencies in the use of real numbers, solving linear equations and their application to word problems, graphing, inequalities, the solution of polynomial and quadratic equations. SAT prep will be an integral component of this course. Prerequisite: 85% in Geometry (422) and Algebra 1 (414)

440 Honors Trigonometry/Pre-Calculus**cr. 5.00****Grade 11-12**

This course is designed to meet the needs of students who are talented in mathematics and intend to attend college. The course consists of an in-depth study of the algebra of functions. It investigates the behavior and the properties of mathematical relationships in the two variables. Techniques to analyze and graph relationships are presented, including domain, range, intercepts, symmetry, shifts, and reflections. The second half of the course familiarizes the students with the fundamentals of trigonometry. Topics covered include: trigonometric functions, circular functions, inverse circular functions and their applications to problems involving right triangles; identities; laws of sines and cosines. SAT prep will be an integral component of this course. Prerequisites: 80% or better in H Algebra. Geometry and math teacher's recommendation. 92% or better in Algebra II and math teacher's recommendation.

443 Trigonometry **cr. 5.00** **Grade 12**

Trigonometry is designed for the higher student who is not year prepared for Calculus or Pre-Calculus but who plans on taking level math in college. The course consists of a review of Algebra, the solving of inequalities, followed by the study of functions and their graphs.

Trigonometry is discussed in depth. Topics covered include: trigonometric functions, circular functions, inverse circular functions and their applications as well as Heron's formula.

Prerequisites: Average grade of 85 in Algebra 11(432/434) or grade of 80 in Algebra 11(432) with strong teacher recommendation. Average grade below 80% in H. Algebra/Geometry (and teacher's recommendation).

444 Math 4 **cr.5.00** **Grade 12**

This course covers the essential concepts and skills of algebra and problem solving which are needed for further study of mathematics in college. Topics covered included sets, the real number system, linear equations and inequations, quadratics and functions, systems of linear equations and inequations, mathematical systems, probability and statistics. Prerequisites: Successful completion of Algebra 2 and departmental approval.

480 Advanced Placement Calculus **cr.5.00** **Grade 12**

AP Calculus builds on the student's previous experiences with Mathematics. A three-phase approach is used to develop the student's understanding of this subject: 1) the theory of elementary functions is first explored and the general and particular properties of functions are then studied; 2) the differential calculus is presented, the derivative is defined and developed with some attention given to the application of the derivative; 3) the integral calculus is then studied. The concept of antiderivatives is defined and applied. Technique integration is presented and the concept of a definite integral as an area is then explored. The course concludes with applications of the integral. **AP Exam is given at the end of the course.**

Prerequisites: 85% in Honors Trig Pre-Calculus and math teacher's approval.

SCIENCE & TECHNOLOGY DEPARTMENT COURSE OFFERINGS

510 Honors Biology 1 **cr. 5.00** **Grade 9, 10**

This course is designed to give the accelerated student an introductory program of studies in the fundamentals of Biology. Students examine such traditional topics as plant and animal classification, genetics, evolution, and basic laboratory techniques. Prerequisites: Entrance test scores and previous academic record.

514 General Science **cr. 5.00** **Grade 9**

This offering serves to present several branches of science in an introductory manner. Topics include: scientific method, the metric system, chemistry, biology, and basic laboratory techniques.

520 Biology **cr. 5.00** **Grade 10**

This course provides students with an introductory background in the fundamental of biology. Topics include: basic lab techniques, classification, cell biology and genetics.

522 Honors Biology 2 **cr. 5.00** **Grades 11,12**

This full-year course examines the anatomy and physiology of the human body. Topics include the following: the organization of the body, basic chemistry dealing with living systems, cell structure and function, the gross and microscopic anatomy of various body parts, and the physiology of every body system.

Prerequisites: An average of 85% or higher in Biology and Departmental approval.

524 Honors Histology **cr. 5.00** **Grades 12**

This full-year course examines the tissues that make up the human body. Topics would include: the characteristics of the four main tissues types, how these tissues are arranged to form the organs and systems of the body, the proper use of various types of microscopes, and the utilization of the latest microscopic techniques. The Internet will be used extensively to provide students with a “home” web page for use as a reference base, an online textbook, and an atlas of microscopic images. The student will also use PowerPoint to create presentations and organize their work. Prerequisites: An average of 85% or higher in Honors Biology 2

530 Honors Chemistry **cr. 6.00** **Grades 10,11,12**

This course is designed for those students in the advanced math groups. Experiments are used to introduce principles. Chemistry is learned in the following way: facts are gathered and arranged in meaningful patterns, which reveal regularities that lead to an understanding of nature. Prerequisites: Students must have an 85% in 410 or 414; 420 or 422; 432 or 443 Math sections and receive Departmental approval.

532/534 Chemistry **cr. 5.00** **Grades 10,11,12**

This full-year course has been developed to provide an understanding of the key concepts of Chemistry to the average math students. Topics include: atomic theory, mole concept, kinetic theory, atomic structure, chemical bonding and principles of chemical reactions. Prerequisites: Students must be in 434 Math or higher or receive departmental approval.

550 Honors Physics **cr. 6.00** **Grades 12**

The main areas of concern during this two-semester course are light, sound, mechanics, thermodynamics, electricity, magnetism, and nuclear reactions. Mathematical and experimental treatments of these topics are critical to this course. Prerequisites: Students must have an 85% in Math 420 or 432, presently be taking 440, 443, or 480 and receive Departmental approval.

552 Physics **cr. 5.00** **Grades 11,12**

This survey covers many of the standard topics in Physics such as mechanics, optics and electricity, but it is directed toward those students planning to major in a non-science field in college. Prerequisite: Departmental approval, successful completion of Algebra II and enrollment in 443 or higher math course.

632 Computer Applications I **cr. 5.00** **Grade 9,11,12**

Computer Applications is a full year course. Basic keyboarding is introduced and drilled extensively, using “Mavis Beacon Teachers Typing” software. After keyboarding has been mastered, students proceed to the introduction of Microsoft Office 2003. This office suite consists of Microsoft Word, Microsoft Access, Microsoft Excel, and PowerPoint which will enable us to cover all facets of production, including all types of correspondence, resume, term papers, tables, reports, database and spreadsheet applications. The most widely used operating system, Microsoft Windows *XP Professional*, will be also used.

561 Computer Applications II **cr. 5.00** **Grades 11, 12**

This course will deal with several popular application programs such as Adobe PageMaker and Microsoft PowerPoint. The programming element of the course will include working with Java. Using these materials, the student will be introduced to the tools he needs to create business and other types of documents. The student will be expected to demonstrate skills with “desktop publishing,” producing brochures, newsletters, etc. Java will introduce the student to the world of object-oriented programming and web page design. Prerequisites: Computer Applications I.

565-Multimedia Projects for Today cr. 2.50 Grades 11,12

In this semester course the student will develop interactive media pieces that include animation, sound, texts, graphics, and digital video. Upon completion of this course the students will be able to import media pieces from another source into their projects, develop interactivity that allows the project to respond to events and change in specified ways, use hardware such as scanners and digital cameras, and consider items such as type of audience, breadth of knowledge for choosing such a project. Prerequisites: Successful completion of Computer Applications I.

566-Web Page Design and Desktop Publishing cr. 2.50 Grades 11,12

This introductory course (one semester, five days a cycle) will include developing material for publishing and selecting elements of that material to include in designing a web page. The course covers such key aspects of web page design as organization of content, audience considerations, interactivity, and graphical components. This course will require the use of elemental HTML/Java and landscape/architectural design software. Prerequisite: Successful completion of Computer Applications I (632) or equivalent.

BUSINESS COURSE OFFERINGS

600 Accounting 1 cr. 5.00 Grades 11,12

Accounting 1 is a one-year course. The course is designed to allow students to develop the basic skills that are necessary for more advanced accounting. The basic areas of coverage are as follows: basic accounting cycle, checking account and reconciliation of bank statement, eight-column worksheet, adjusting entries and closing entries, income tax.

640 Economics & Marketing cr. 5.00 Grade 11, 12

As per new State of New Jersey requirements, this course has been moved to our Social Studies Department as course # 280.

RELIGIOUS STUDIES DEPARTMENT COURSE OFFERINGS

812 Religion 1 cr. 5.00 Grade 9

This introductory course deals with the basic teachings and practices of the Catholic Church, and explores, within a moral framework, the God-given gift of human sexuality and the responsibility for using this gift. The life and teachings of St. John Baptist de La Salle, the founder of the Christian Brothers, is also discussed as part of this course. Recognizing the need for greater intellectual understanding for the student making the transition from elementary to high school, the ninth grade religion program attempts to provide him with the opportunities to develop more mature religious concepts and practices. Through the text, writing, class discussions and projects, the students will become familiar with the key concepts of Catholic Christianity.

822 Religion 2 cr.5.00 Grade 10

This course will help students arrive at a new understanding of what the Bible is so that they may grasp why Christians believe it to be the Word of God. Through reading the Bible and the text, writing, class discussions and projects, the students will become familiar with the language of the Bible, and the Catholic Christian interpretation of that language.

832 Religion 3 cr. 5.00 Grade 11

This is divided into two major topics. The first semester is a course in which the 2,000 year-old history of the Roman Catholic Church is explored, not only from an historical point of view but also from the perspective of the Church's impact on art, architecture and philosophy. In many respects, it is a humanities course. In the second

semester, the course addresses the formation of an individual's personal and social morality. Personal morality is concerned with the who, why and how of moral living with character conscience and the process of decision making. Personal morality also covers the "what" of moral living: values, contemporary issues and the abuses of our covenant with God. Social morality deals with the questions "How are we, as Christians, called to respond to the needs of our world today?" Students are encouraged to discover the ability that they have to make a difference in their own lives and in the lives of others. This study makes the practical connection between our religious values and/or action in society. There is a 10 hour Christian service requirement included for this course.

842 Religion 4 **cr. 5.00** **Grade 12**

This is divided into two major topics. The first semester is a course dealing with the themes of World Religions and Ecumenism. It is a comparative study of humankind's quest for a supreme being(s), life's meaning/purpose (major beliefs), suffering, death, moral living, reality, knowledge and truth as expressed and lived out within various world religions. It will emphasize a respect for the richness and limitations of various cultures and religious traditions. In addition, it will address the following topics on different world religions: political, cultural and historical factors, founders/prominent leaders, sacred witness, important practices, observances, sacred places, religious symbols and forms of worship. In the second semester, this course will address the concept of vocation and the call to different lifestyles/missions within the Catholic Christian tradition. A central concept is the Sacrament of Marriage where students will investigate the character of the personal relationship required in a successful marriage with all the responsibilities and requirements as a social institution. Other vocational lifestyles and careers dealing with a call from God to fulfill the command of Christ to love God, your neighbor and yourself are explored. The vocational lifestyles that will be explored are: marriage, single life, priesthood and religious life. Various ministries of the laity will be discussed including Church ministries here in the United States as well as in the foreign missions. There is a 14 hour Christian service requirement included for this course. 4 hours are completed on the annual Faculty/Senior Class Day of Service.

852 Peer Ministry **cr. 5.00** **Grades 11, 12**

This course consists of in-class lectures, group work and discussion, training and orientation through week-end long workshops and retreats. A minimum of one full year of in-service ministry to the school community is required. It provides the school with a team of students able to minister in the areas of retreats, days of recollection, service programs, liturgies, social events and other areas of community needs.

It is intended for students who seek a greater personal involvement in the life of the school and who wish to share their gifts, talents and religious faith with peers. It requires a commitment to the program, to the individual student's own professed religion and to the Christian principles of service and prayer. Prerequisite: Prior approval by instructor.

ART DEPARTMENT COURSE OFFERINGS

910 Introduction to Art and Art History **cr. 5.00** **Grades 11, 12**

Introduction to Art and Art History, a full year course, will cover drawing, painting, printmaking, design and art history. Along with art techniques the class will learn to explore ideas and to creatively problem solve, as well as an introduction to art history. This class is for all students, beginning to advanced. Prerequisite: Instructor's approval is required.

920 Art Appreciation **cr. 2.50** **Grade 10**

This course will provide an introduction to the ways in which people have expressed themselves in the visual arts including painting, sculpture, architecture, and photography. An appreciation and a deeper understanding of these media will be explored through projects, lectures, and slides. The focus will be on the nature and experience of art across many cultures and its central role in our daily lives. Prerequisite: Instructor's approval is required.

928 Honors Specialized Art I **cr. 5.00** **Grades 11,12**

Honors Specialized Art I students will begin to search for and develop their aesthetic senses. With longer-term projects and more room to develop their own projects these students will explore their own voice. In addition, there

will be introductions to new media and processes and more in depth art history studies.
Prerequisite: One previous full-year art course and the instructor's approval are required.

930 Honors Specialized Art 2 cr. 5.00 Grades 11,12

This course is designed for the student who has taken sufficient course credits to prepare him for advanced problems in drawing and painting. Through consultation and instructional guidance, the student is encouraged to pursue individualized study in the formulation of work that addresses specific issues dealing with the elements of art and principles of organization. The application of basic foundations to more expressive aesthetic situations remains a primary concern for the student. Prerequisite: Honors Specialized Art 1 and the instructor's approval are required.

932 Printmaking / Bookmaking cr. 5.00 Grades 11,12

Printmaking, a full year course, will be an exploration of both traditional and modern techniques in both ink printing, paper making and book creation. Students will be introduced to the histories of these mediums. Through various assignments and class work, students will learn to use printmaking, paper making and book creation as tools for self-expression. Prerequisites: Instructor's approval is required.

936 Photography (Semester) cr. 2.50 Grades 11, 12

In photography, a full year course, students will begin the process of learning how to operate their camera in conjunction with development and printing of their pictures. The technical side of photography will be explored as well as different genres of photography such as photojournalism and sports photography. A 35mm. camera is required in order to enroll in the class. There will be some additional costs (i.e. paper, film) that accompany this course. Prerequisites: Instructor's approval is required.

940 Sculpting cr. 2.50 Grade 11, 12

In sculpting, students will learn to express ideas three dimensionally. Through the use of different materials and techniques, students will be taught how to build expressive and thought provoking works of sculpture. Materials may include wood, chipboard, clay, and other traditional and nontraditional materials. Also included in this class will be presentations of historical works. This course is for both the college bound art student or a student with an interest in art.

COURSE OF STUDY

FRESHMAN YEAR (35.0 credits)

Religion 1	(5 credits)
English 1	(5 credits)
Mathematics ¹	(5 credits)
General Science ²	(5 credits)
World History	(5 credits)
World Language I ³	(5 credits)
Computer Applications	(2.5 credits)
Health & Physical Education 1	(2.5 credits)

- 1 Algebra I or another approved math course
- 2 Honors Biology for Scholars and selected students.
- 3 Upper level courses or Language Study for selected students.
Honors Latin 1 for Scholars

SOPHOMORE YEAR (35.0 CREDITS)

Religion 2	(5 credits)
English 2	(5 credits)
Mathematics ¹	(5 credits)
Biology ²	(5 credits)
U.S. History I	(5 credits)
World Language II ³	(5 credits)
Art Appreciation ³	(2.5 credits)
Health & Physical Education 2	(2.5 credits)

- 1 Geometry or another approved math course
- 2 Chemistry for Scholars and selected students
- 3. Integrative Seminar for Scholars

JUNIOR YEAR (at least 30 credits)

Religion III ¹	(5 credits)
English III	(5 credits)
Mathematics ²	(5 credits)
Chemistry ³	(5 credits)
U.S History II ⁴	(5 credits)
Elective ⁵	(5 - 10 credits)

- 1 Peer Ministry for selected students.
- 2 Algebra II or another approved math course
- 3 Science elective for Scholars and selected students
- 4 AP American History for selected students
- 5 At least 5 credits in approved electives (Either cluster)

SENIOR YEAR (at least 30 credits)

Religion IV ¹	(5 credits)
English IV ²	(5 credits)

- 1 Peer Ministry for selected students.
- 2 AP English for selected seniors

Elective Course	
Math/Science/Tech Cluster	(10 credits)
Humanities Cluster	(10 credits)
Other electives	(2.5 – 5 credits)

MATH/SCIENCE/TECHNOLOGY CLUSTER

Physics or Hon Physics	(5 credits ea)
Hon Biology II, Hon Histology	(5 credits ea)
Computer Applications II	(5 credits ea)
Web Page Design, Multimedia Projects,	(2.5 credits ea)
Algebra II, Math 4, AP Calculus, Trig,	(5 credits ea)
Advanced Physical Conditioning	(2.5 credits)

HUMANITIES CLUSTER

Hon Spanish III/IV, Hon French III	(5 credits)
AP European History,	(5 credits)
Psychology/21 st Century Issues	(5 credits)
Civil War/World War II	(5 credits)
Economics & Marketing, Accounting	(5 credits ea)
Literature and Film	(5 credits)
Creative Writing, Journalism,	(2.5 credits ea)
Intro to Art, Hon Specialized Art I, II, and	
Printmaking	(5 credits ea)
Sculpting, Photography	(2.5 credits ea)