

Hudson Catholic Regional High School

Course Selection Catalog 2016-2017



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Mission Statement

The mission of Hudson Catholic Regional High School, a Lasallian college preparatory school serving a diverse community, is to educate the students entrusted to our care through a comprehensive and demanding curriculum complemented by an integrated program of extracurricular activities emphasizing spiritual, social and physical values, designed to encourage individual development and responsibility to the community.

Introduction

This academic catalog is published to help all concerned parties during the course selection process for the 2016-2017 school year. Everyone should be sure to review and understand this information completely in preparation of selection of courses 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 based on 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 school counselors are well-informed about general college and career requirements, while administration 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. Please keep in mind that all course selections are subject to course enrollment and teacher availability.

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 or Advanced Placement (AP). The national AP Program 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, greater depth, and with more intensity. For these courses, certain prior qualifications, including grade average in the subject area and teacher/departmental approval are required.

Students will meet with their school counselor prior to finalizing their course selection. Parents will receive a listing of their child's course selection with the final report card.

GRADUATE PROFILE

Upon graduation from Hudson Catholic, the student will:

- Demonstrate critical and logical thinking skills:
 - necessary to access and critically evaluate information;
 - focused on the solving of theoretical moral and practical problems.
- Evidence the fundamental literacy, technology, and numeracy skills:
 - to pursue appropriate advanced education;
 - to understand their potential as life-long learners;
 - to communicate effectively in various professional and social circumstances.
- Manifest the core Lasallian value of respect:
 - for personal self-worth;
 - for others in their diversity and uniqueness;
 - for the sacredness of all life;
 - in concrete actions of service to the local and global community.
- Be formed in the Lasallian heritage of education within the Catholic and humanist traditions and so be able to demonstrate:
 - knowledge of the teaching, tradition and values of the Church
 - commitment to personal and communal prayer and worship
 - facility for growth across the various dimensions of life.

Graduation Requirements

Students must successfully complete the following minimum course requirements in our college preparatory program of studies. Freshmen, sophomores and juniors are required to carry seven major subjects each semester. Seniors are required to carry six major subjects each semester.

All students are required to complete the following:

English: 4 years

Religious Studies: 4 years

Mathematics: 3 years

Social Studies: 3 years

Lab Science: 3 years

World Languages: 2 years

Physical Education/Health: 2 semesters

Art Education: 2 semesters

Freshman Cycle: 1 year

Additional Electives: 5 years

ADVANCED PLACEMENT AND HONORS COURSE POLICY

Advanced Placement (AP) Courses are designed to meet the needs of students who want an advanced college preparatory curriculum and have a high level of responsibility, interest, aptitude and achievement. These course principles and concepts are explored in greater depth, and more independent work is expected of the student. At Hudson Catholic Regional, registration for an AP involves several steps: (1) the student must meet the prerequisite requirements, (2) the student must read and agree to our AP policy, and (3) the student must be recommended by his/her current teacher within the department.

It is important that students make careful decisions about course selection. Once a student has selected an AP course, he/she may not drop the class.

The following conditions must be agreed to before a student may register for any AP course:

1. AP courses are college level courses and require considerably more homework and studying than an honors course. Work will be assigned and will be graded accordingly.
2. No student will be registered for an AP course unless he/she meets all prerequisites and has obtained required recommendations or approvals.
3. Any student who registers for an AP course during registration will be required to remain in the course until the completion of the course.
4. Students enrolled in any AP class will be required to take the AP exam in the spring. Students who need financial assistance when registering for the AP exam should see the AP coordinator, Mr. Phil Gazzale, Dean of Operations.
5. Please be aware that prerequisite requirements are instituted not to keep students out of a class, but to provide students with a solid foundation to be successful in a class.

2015-2016 COURSE DESCRIPTIONS

ENGLISH DEPARTMENT COURSES

121 Honors American Literature*

Credits 5.00

Grade 10

This course is a challenging course that covers various pieces of drawn from 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. *Requires recommendation of Comparative Literature teacher*

123/129 American Literature

Credits 5.00

Grade 10 – Required Course

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 Comp Lit. 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.

131 Honors British Literature*

Credits 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 theses 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. *Requires recommendation of American Literature teacher*

133/135 British Literature

Credits 5.00

Grade 11 – Required Course

This course builds on the critical, creative and basic skills developed in Comp Lit and American Lit 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.

111 Honors Comparative Literature*

Credits 5.00

Grade 9

Honors Comparative Literature 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,

* *Honors course can be taken in place of the required regular course*

tests, papers, homework and in-class activities. *Placement by entrance test scores and previous academic record*

115/117 Comparative Literature

Credits 5.00

Grade 9 – Required Course

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.

159 Creative Writing

Credits 5.00

Grades 11 and 12

In this course, students will work both independently and collaboratively to compose pieces of original fiction, nonfiction, memoir, poetry, and more. Students will engage in the creative writing process, including daily writing exercises and the workshop model. By the end of the course, each student will have completed a portfolio of writing from various genres.

140 Advanced Placement (AP) English Literature*

Credits 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. The optional AP exam provides the opportunity to earn college credits or placement. Considerable summer reading is required. *Requires either English teacher recommendation or instructor approval*

155 World Literature

Credits 5.00

Grade 12 – Required Course

World Literature 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.

MATHEMATICS DEPARTMENT COURSES

600 Accounting

Grades 11 and 12

Credits 5.00

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. Areas are as follows: basic accounting cycle, checking account and reconciliation of bank statement, eight-column worksheet, adjusting entries and closing entries, income tax.

410 Honors Algebra 1*

Credits 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*

414/412 Algebra 1

Credits 5.00

Grade 9 – Required Course

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.

430 Honors Algebra 2/Pre-Calculus*

Credits 5.00

Grade 11

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. *Prerequisite: Honors Geometry/Trigonometry; requires departmental approval*

432 Algebra 2

Credits 5.00

Grade 11 – Required Course

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: Geometry*

455 Honors Calculus

Credits 5.00

Grade 12

Main areas include: the theory of elementary functions, the differential calculus, & the integral calculus. *Prerequisite: Honors Trigonometry/Pre-Calculus or Honors Algebra 2/Pre-Calculus; requires departmental approval*

421 Honors Geometry/Trigonometry*

Credits 5.00

Grade 10

The course will accelerate through Euclidian Geometry including 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. The course will also include course information from Trigonometry. *Prerequisite: Algebra 1 or Honors Algebra 1 (minimum grade of 85%); requires departmental approval*

* Honors or Advanced Placement course can be taken in place of the required regular course

422/424 Geometry

Credits 5.00

Grade 10 – Required Course

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: Algebra 1***444 Math 4**

Credits 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, quadratics and functions, systems of linear equations, mathematical systems. *Prerequisite: Algebra 2*

*Algebra 2***462 Probability and Statistics**

Credits 5.00

Grade 12

Probability and Statistics is an activity-based introduction to statistics that emphasizes working with data, graphs, and statistical ideas. Students are expected to develop and present professional quality statistical analyses. Course content includes theory of probability, description of statistical measurements, sampling and experimental design, probability distributions, and statistical inference. *Prerequisite: Algebra 2*

440 Honors Trigonometry/Pre-Calculus

Credits 5.00

Grade 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: Algebra 2 (minimum grade of 92%); requires departmental approval*

443 Trigonometry

Credits 5.00

Grade 12

Trigonometry is designed for the higher student who is not yet prepared for Calculus or Pre-Calculus but who plans on taking 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. *Prerequisite: Algebra 2 (minimum grade of 85%); requires departmental approval*

PHYSICAL EDUCATION AND HEALTH COURSES**022 Physical Education/Health 2**

Credits 2.50

Grade 10 – Required Course

This course is designed to introduce students to various team sports. Students are offered the opportunity to learn the history, rules, terminology, strategy and basic skills of each sport covered during the course. Throughout the semester, students will assume the role of the coach, the official, and the player. Health 1 deals with the following topics: smoking, alcohol, drugs and nutrition.

026 Physical Education/Health 3

Credits 2.50

Grade 11 – Required Course

Physical Education II continues with 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. 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.

RELIGIOUS STUDIES DEPARTMENT COURSES**833 Sacraments/Morality**

Credits 5.00

Grade 11

The first semester of the junior curriculum examines the history of the Church as it traces the impact of Christ and His teachings over the past two thousand years. The students will explore how the early Christians endured persecutions, developed institutional structures, and developed statements of belief in response to challenges of the times. Students will see how the Church took shape through the development of its theology, liturgy, and initiation. They will study the impact of the East-West Schism, the Protestant Reformation and the major Councils of the Church. They will come to recognize that they are the Church and have an obligation to help build the Kingdom of love, peace, and justice envisioned by Jesus. Students will be made aware of their obligation to fight against abortion, exclusion, prejudice, racism, discrimination, poverty and all other obstacles that prevent people from being all that God wants them to be. The second semester provides a foundation for Christian morality as it examines virtues, conscience, and sin. The teachings of Scripture, Jesus, and the Church provide the basis for a moral decision-making process which students are encouraged to use with real-life moral issues. Adolescents are encouraged to become persons of character and aid in building communities where living morally is the norm. The text chosen provides many opportunities to apply the teachings of the Church to everyday situations. This course will be heavily discussion oriented thus providing the students with an opportunity to share their own perspectives in light of the Church's teachings. Additionally, all students in eleventh grade are required to complete 15 hours of community service.

852 Peer Ministry*

Credits 5.00

Grade 11 – *Application Required*

This course consists of in-class lectures, group work and discussion, training and orientation through weekend 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. *Requires grade average of 85% and instructor approval*

870 Mission/Church History

Credits 5.00

Grade 10 – Required Course

The first semester of the sophomore curriculum will focus on the Paschal Mystery of Jesus Christ. Students will come to understand all that God has done for us through his Son. Students will learn that for all eternity, God has planned for us to share eternal happiness with Him, which is accomplished through the redemption Christ won for us. They will also be introduced to what it means to be a disciple of Christ. The second semester curriculum will focus on Christ's mission carried out in the Church. Students will understand that in and through the Church, they encounter the living Jesus Christ. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is

* *Peer Ministry can be taken in place of Church History and Morality*

sustained by Him through the Holy Spirit. They will come to know that the Church is the living Body of Christ in the world today. Students will learn not so much about events in the life of the Church but about the sacred nature of the Church. Additionally, all students in tenth grade are required to complete 10 hours of community service.

860 The Revelation of Jesus Christ

Credits 5.00

Grade 9 – Required Course

The first semester of the freshman curriculum will examine the revelation of Jesus Christ in Sacred Scripture. Through their study of the Bible, students will come to encounter the living Word of God, Jesus Christ. They will learn about the Bible and its value to people throughout the world. They will learn how to read the Bible and will become familiar with the major sections and books of the Bible. Particular attention will be given to the Gospels, where students may come to know and love Christ more personally. The second semester curriculum will introduce students to the mystery of Jesus Christ. In this half of the course, students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning who Jesus is, the students will learn who He is calling them to be.

843 World Religions/Social Justice

Credits 5.00

Grade 12 – Required Course

The first semester of the senior curriculum the students examine those common bonds that the Great Religions of the world share with Christianity. While recognizing the differences of vision and religious practice among religions, the course encourages students to develop attitudes of understanding and respect for the beliefs and practices of others. It also discusses unhealthy aspects of religious observance, such as magic, emotional dependence on cults and sectarian violence. While primary emphasis is given to Hinduism, Buddhism, Islam and Judaism, significant contributions from other religions are also examined. The second semester of the senior curriculum examines the lifestyles that allow Christians to fulfill the basic Christian vocation to carry on Christ's mission in our world. The married, single, religious and ordained lifestyles are discussed in light of the fidelity and commitment that mark God's own model of love. It also suggests practical ways of developing loving, intimate relationships, as well as parenting skills that are most appropriate for a Christian home. Additionally, all students in twelfth grade are required to complete 20 hours of community service.

SCIENCE DEPARTMENT COURSE OFFERINGS

510 Honors Biology 1*

Credits 5.00

Grade 9

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. *Placement by entrance test scores and previous academic record*

520/521 Biology

Credits 5.00

Grade 9 – Required Course

This course is designed to introduce the student to the basic structure, function and interaction of living things. Emphasis is placed on the molecular nature of biology and current trends in research. The laboratory experiments allow experience in the scientific method and technique while reinforcing concepts covered in the classroom. Strong graphic instruction and integration of new technology provide students with a visual description of complex processes. Math and Data labs link math to science.

* *Honors course can be taken in place of the required regular course*

529 Biology 2

Credits 5.00

Grades 11 and 12

This course will provide an overview of cell and molecular biology. Topics covered will include (but are not limited to) cellular functioning and composition, protein structure and function, basic molecular genetic mechanisms, the signaling pathways that control gene activity, bioinformatics as well as stem cell research. *Prerequisite: Chemistry and Biology (minimum grade of 85%); requires departmental approval*

530 Honors Chemistry*

Credits 5.00

Grades 10

Honors Chemistry is a one-year course that emphasizes an in-depth study of chemical topics, and involves a more rigorous and mathematically oriented curriculum. Development of the major concepts of matter and the changes which matter undergoes, atomic structure, chemical bonding, chemical reactions, and behavior of solutions and gases is enhanced by laboratory experimentation, critical thinking, and problem solving activities. The laboratory component of the course introduces students to techniques that are specific to principles of chemistry. The course also helps to prepare students for Advanced Placement Chemistry. *Prerequisites: Algebra 1 and Biology; co-requisite: Honors Geometry/Trigonometry; requires department approval*

532/534 Chemistry

Credits 5.00

Grades 10 – Required Course

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: Algebra 1 and Biology*

540 Advanced Placement Chemistry

Credits 5.00

Advanced Placement Chemistry represents a full year of college chemistry. The purpose of this course is to prepare students to take the mandatory Advanced Placement examination in the spring. Advanced Placement Chemistry is a second-level, laboratory-centered course that provides an opportunity for students to undertake a more comprehensive investigation. The topics included in this course include chemical kinetics, equilibrium, and thermochemistry. Since an Advanced Placement course is an introductory college course, the work is quite demanding. Considerable summer work is required. *Prerequisite: Honors Chemistry; co-requisite: Honors Algebra 2/Pre-Calculus or Honors Calculus; requires departmental approval*

526 Environmental Science

Credits 5.00

Grades 11 and 12

This full-year elective course will introduce students to major ecological concepts & the environmental problems that affect the world in which we live. It explores the interactions within ecosystems, and focuses upon the interrelatedness of life on earth. In addition, students will learn about environmental problems such as land, water, and air pollution, habitat destruction, & explore practical alternatives for protecting the environment & moving toward a sustainable future. *Prerequisite: Chemistry*

527 Forensic Science

Credits 5.00

Grades 11 and 12

This full-year elective will introduce students to the methodology needed to identify & evaluate evidence in understanding the nature of the world & in solving societal problems. Critical thinking skills learned in Biology & Chemistry are emphasized, using the proper laboratory mechanics needed to evaluate evidence, understand how materials are collected & analyzed on a crime scene, & how to compare between the known & the unknown. Students will learn how various tests can be used to solve a crime & expand their ability to document what took place & how they arrive at their conclusions. *Prerequisite: Chemistry*

* *Honors course can be taken in place of the required regular course*

523 Honors Human Anatomy/Physiology

Credits 5.00

Grades 11 and 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, genetic engineering, the gross and microscopic anatomy of various body parts, and the physiology of every body system. *Prerequisites: Chemistry and Biology (minimum grade of 85%); requires departmental approval*

545 Human Anatomy/Physiology

Credits 5.00

Grades 11 and 12

This full-year course examines the anatomy and physiology of the human body. Topics include the following: the organization of the body, the gross and microscopic anatomy of various body parts, and the physiology of every body system. *Prerequisites: Chemistry and Biology (minimum grade of 80%); requires departmental approval*

525 Honors Genetic Engineering/Histology

Credits 5.00

Grades 12

This full-year course deals with such topics as recombinant DNA, DNA sequencing, the Human Genome, and cloning and includes “wet labs” on DNA extraction and “virtual labs” on transgenic organisms. This offering also explores such topics as: the characteristics of the four main tissues types in the body, 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, online textbook, virtual labs, and an atlas of microscopic images. The student will also use PowerPoint to create presentations and organize their work. *Prerequisite: Honors Human Anatomy/Physiology (minimum grade of 85%); requires departmental approval*

550 Honors Physics*

Credits 5.00

Grades 11 and 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: Chemistry (Honors preferred) and Algebra 2 (minimum grade of 85%); co-requisite: Honors Pre-Calculus/Trigonometry or Honors Calculus; requires departmental approval*

552 Physics

Credits 5.00

Grades 11 and 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. *Prerequisites: Chemistry and Algebra 2 (minimum grade of 80%); co-requisite: Trigonometry; requires departmental approval*

541 Principles of Engineering Design

Credits 5.00

Grade 12

This course is designed for 12th grade students. It exposes students to some of the major concepts of engineering. Students will have the opportunity to explore their creativity and imagination through hands-on activity, project-, and problem-based learning using principles of civil, mechanical, chemical, and materials engineering. They will have the opportunity to connect and combine ideas using previous knowledge and educated assumptions. Independent and collaborative work will be encouraged while discovering solutions to real world challenges. *Prerequisites: Algebra 2 (minimum grade of 80%); co-*

* *Honors course can be taken in place of the regular course*

requisite - Trigonometry, Honors Trigonometry/Pre-Calculus or Honors Calculus; Physics or Honors Physic preferred; requires departmental approval

SOCIAL STUDIES DEPARTMENT COURSES

280 Economics

Credits 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.

242 Psychology/21st Century Issues

Credits 5.00

Grades 11 and 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.

250 Advanced Placement European History

Credits 5.00

Grades 11 and 12

The Advanced Placement Program in European History covers the basic chronology of events from 1450 (the High Renaissance) to the present. Students are expected to demonstrate knowledge of this basic chronology and of major events and trends in the intellectual cultural, political-diplomatic, and social-economic history of modern Europe. In addition, students are expected to demonstrate an ability to analyze historical evidence and to express that understanding and analysis in writing. All students are required to take the Advanced Placement examination in European History, for which college credit and/or placement is given if a qualifying score is achieved. *Requires grade of 85% or higher in previous history courses and teacher recommendation*

270 Advanced Placement United States Government and Politics

Credits 5.00

Grades 11 and 12

AP U.S Government and Politics is an intensive study of the formal and informal structures of government and the processes of the American political system, with an emphasis on policy-making and implementation. This course is designed to prepare students for the AP Exam. By the conclusion of the course, students will be expected to: know important facts, concepts, and theories pertaining to U.S Government and Politics; understand typical patterns of political processes and behavior and their consequences (including the components of political behavior, the principles used to explain or justify various government structures and procedures, and the political effects of these structures and procedures; and be able to analyze and interpret basic data relevant to U.S Government and Politics. The

course will follow the AP U.S. Government and Politics syllabus. Students will have the opportunity to take the AP exam. *Requires grade of 85% or higher in previous history courses and teacher recommendation*

220 Honors United States History 1*

Credits 5.00

Grade 10

With an accelerated pace, 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. There will be an introduction to materials relating to AP test prep. Students will practice developing effective responses to AP type questions and do critical analysis of high quality responses to AP style Document based questions. *Requires recommendation of World History teacher*

222/224 United States History 1

Credits 5.00

Grade 10 – Required 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.

230 Advanced Placement United States History*

Credits 5.00

Grade 11

This course starts with the Spanish-American War and ends with the current year. By 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. There will be an emphasis on critical thinking skills. The course will follow the AP American history syllabus with extensive practice and preparation for the AP US History Exam. Students will have the opportunity to take the AP American History exam. *Prerequisite: Honors U.S. History 1; requires teacher recommendation*

232/235 United States History 2

Credits 5.00

Grade 11 – Required Course

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

* *Honors or Advanced Placement course can be taken in place of the required regular course*

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.

210 Honors World History*

Credits 5.00

Grade 9

With an accelerated pace, 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. *Placement by entrance test scores and previous academic record*

214/213 World History

Credits 5.00

Grade 9 – Required Course

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.

256 World War II

Credits 5.00

Grades 11 and 12

This is a full-year course that covers the history of the Second World War and its impact on the world today. The course will begin with pre-World War I Europe and the cause of the First World War. It 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 attempts by Nazi Germany to exterminate the Jews of Europe will be thoroughly examined. The Rise of Japan and 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 and the post-World War II world – resulting in the Cold War.

VISUAL ARTS DEPARTMENT COURSES

931 Advanced Art

Credits 5.00

Grade 12

This course will provide students with a sincere interest in pursuing a future in visual arts career with the opportunity to create a portfolio. Students will complete art projects using mediums including, but not limited to, painting, drawing, sketching and/or photography. *Requires instructor approval*

921 Drawing 1

Credits 2.50

Grade 10 – Required Course

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. Students learn the basic skills of

* *Honors course can be taken in place of the required regular course*

drawing. Drawing from observation, along with learning various drawing techniques, is the focus of this course.

911 Drawing 2

Credits 2.50

Grade 11 – Required Course

This course is designed to follow Drawing I. This course aims to foster an individual approach to drawing. Emphasis is placed on drawing from observation. A variety of media is used, to include pencil, charcoal, pastel, watercolor, ink washes, acrylic painting and other mixed media drawing techniques. It will build on previous knowledge and vocabulary. Students will have an opportunity to display their work.

962 Printmaking/Photography

Credits 5.00

Grades 11 and 12

The printmaking course will be an exploration of both traditional and modern techniques in both ink printing & paper making. Through various assignments and class work, students will learn to use printmaking & paper making as tools for self-expression.

In Photography, students will begin the process of learning how to operate their camera in conjunction with the 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 digital camera is required in order to enroll in the class.

WORLD LANGUAGE DEPARTMENT COURSES

380 Honors Latin I*

Credits 5.00

Grade 9

This course is designed for incoming freshmen in the Scholars' Program. Its extended and accelerated curriculum will 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. *Placement by entrance test scores and previous academic record*

384 Latin I

Credits 5.00

Grade 10 and 11

This course will introduce students to the study of the Latin language, including its forms and syntax, and to develop the ability to translate selective passages from Latin to English, and English to Latin. The course will also emphasize the contributions of Roman culture as the most important route to Western Civilization.

385 Honors Latin II*

Credits 5.00

Grade 10, 11 and 12

Students continue to develop and refine their reading skills through the study of Latin literature. Additional vocabulary, more complex language structures and syntax are emphasized in order to be able to read the writings of prose authors. Through translation and interpretation, students gain a greater understanding of the foundation of Western government and civilization. *Requires approval of Latin 1 teacher*

* *Honors course can be taken in place of the regular course*

383 Latin II

Credits 5.00

Grade 10 and 11

This course will continue the language content covered in Latin 1, including translation of selective passages from Latin to English, and English to Latin. The course will continue to emphasize the contributions of Roman culture as the most important route to Western Civilization. *Prerequisite: Latin 1*

386 Honors Latin III/IV

Credits 5.00

Students continue to develop and refine their reading skills through the study of Latin literature. Students read Vergil's Aeneid silently for comprehension and orally for poetic meter and analyze the various passages for content, connotation of words and author's style. Students study the life and times of Vergil, his influence on later writers, his poetic devices, and his Aeneid as a literary work. *Prerequisite: Latin 2 Honors; requires approval of Latin 2 teacher*

323 Honors Spanish 1*

Credits 5.00

Grade 9 and 10

With an accelerated pace, It provides the students an extensive foundation in vocabulary, functional expressions and grammar structures. The course emphasizes the development of listening, speaking, reading, and writing skills through a proficiency based approach. The study of culture of Spanish-speaking countries is also part of the course. *Placement by proficiency test scores*

321 Spanish 1

Credits 5.00

Grades 9 and 10

This course is an introduction to the Spanish Language. It provides the students a solid foundation in vocabulary, functional expressions and grammar structures. The course emphasizes the development of listening, speaking, reading, and writing skills through a proficiency based approach. The study of culture of Spanish-speaking countries is also part of the course.

330 Honors Spanish 2*

Credits 5.00

Grade 10 and 11

This course moves students to more advanced language skills. It provides an extended and accelerated curriculum. The study of culture of Spanish-speaking countries continues with added music and geography. *Requires either approval of Spanish 1 teacher or placement by proficiency test scores*

332 Spanish 2

Credits 5.00

Grade 10 and 11

In this course, students will continue building vocabulary, functional expressions and grammar structures while developing major communication skills. The study of culture of Spanish-speaking countries continues is emphasized. *Prerequisite: Spanish 1*

340 Honors Spanish 3

Credits 5.00

Grade 10, 11 and 12

This course reviews and expands the course content from Honors Spanish 1 and 2. Students will master more advanced languages skills. It provides an extended and accelerated curriculum, moving students toward more fluent understanding and communication. There is an expectation that students will participate in conversational as well as written literacy of the language. Literature, art and history of Spanish-speaking counties are included within the course. *Prerequisite: Spanish 2 Honors; requires approval of Spanish 2 Honors teacher*

* *Honors course can be taken in place of the regular course*

343 Spanish 3*Credits 5.00*

Grades 10, 11 and 12

This course continues the language content from Spanish 1 and 2. Depending on student interest and qualifications, this capstone course in the Spanish language can be offered to qualified students. Students will master more advanced languages skills. There is a greater emphasis on conversation and composition. Literature, art and history of Spanish-speaking countries are introduced. *Prerequisite: Spanish 2*

392 Advanced Placement Spanish Language*Credits 5.00*

Grades 11 and 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. *Prerequisite: Spanish 3 Honors; requires approval of Spanish 3 teacher*

ADDITIONAL ELECTIVE COURSES**158 21st Century Publications***Credits 5.00*

Grades 11 and 12

Twenty-first Century Publications is an elective course, which will use various means of technology to create formal documents. Students enrolled in the course will be responsible for the layout, editing, creation and publication of completed works, which will be published to the student body. Students will complete a myriad of tasks to create a quality yearbook that reflects the pictorial history of the activities for the present school year.

145 Film Study*Credits 5.00*

Grades 11 and 12

This course serves as an introduction to concepts of film style and topics in film studies. Students begin building a precise vocabulary to describe mise-en-scene, cinematography, editing, and sound in film with the goal that students will learn to trace the function of style and form within a scene and across a film, and learn to reflect on their own spectatorial practices. The second part of the class explores alternative modes of filmmaking (including non-fiction, experimental, and art cinema) and critical methods related to film theory, genre, and history. Students will be expected to engage familiar films in unfamiliar ways and to work through films that may not be as accessible.

100/801/802/803 Freshman Cycle Course*Credits 5.00*

Grade 9 – Required Course

This course serves as a full transitional program for all freshman students at Hudson Catholic. The purpose of the program is to assist students with the transition from middle to high school. It will cover an array of topics, such as: goal setting, academic planning, career and college exploration. Students will rotate through a range of instructional sessions including but not limited to Character Counts, Study Skills and Health/Physical Education.

935 Graphic and Website Design*Credits 5.00*

Grades 11 and 12

Create personally expressive, original artworks using technology; further use of graphic design with website design and creation. Develop expertise in the use of computers, scanners, and digital cameras for art making and website development. Use Adobe Photoshop, Adobe Illustrator for graphic design, and digital imaging. Use Adobe Dreamweaver for CSS, HTML and/or PHP coding. Learn to address ethical issues concerning computer-generated imagery.

157 Journalism

Credits 5.00

Grades 11 and 12

Journalism is an elective course, which will focus on all aspects of gathering, processing, and dissemination of news and information related to the news of Hudson Catholic as well as the outside world. Students enrolled in the course will be responsible for the publishing of quarterly newspapers, which will be distributed to the student body. Topics that will also be covered in the course will include: interviewing, editing, assessing sources, photography and current events.

661 Media Studies

Credits 5.00

Grades 11 and 12

Students learn basic media literacy by developing conceptual tools to think critically about cinema, television, advertising, print journalism, sound, the internet, etc. The course focuses on the process of reading and creating media from distinct rhetorical perspectives--in terms of a text's form and in terms of its relationships to audiences, authors, and the real world--in order to explore how the mass media shape and convey meaning.

262 Research and Inquiry Honors

Credits 2.50

Grade 10

Designed for the students in the Scholars' Program during their sophomore year, this full year course will prepare students to become 21st century learners. Students will work closely with their advisor in order to focus on important, interesting, essential questions or problems; search for, collect and process information; think logically and creatively; synthesize and apply learning; and communicate frequently and effectively orally, in writing and by other means. A "cornerstone" project will be used to assess student growth and development and will be presented before panels of teachers and/or outside community representatives, depending on the school or the nature of the project. This project will be tied to a student's talents and interests, community issues and problems, or a general research project or science experiment. Students may choose stage an interview, perform a play, write a position paper, have a debate, give a speech, create a newspaper, teach a class, or come up with an idea of your own that allows you to present the issue and defend your position. *De La Salle Scholar designation required.*

590 Supporting the Technology Environment

Credits 5.00

Grades 11 and 12 - *Application Required*

This course is designed to provide students with a background in a range of technology topics, as well as to equip course participants with applicable communication, troubleshooting, procedural, administrative and ethical skills to be used in professional and personal technology settings. Among the major tech areas to be covered in the course are customer service, troubleshooting (via a daily role as part of HC's Service Desk operation), database structure, tech support lifecycle, storage and cloud computing, and connectivity and networking. *Requires instructor approval*

591 Technology Project Management

Credits 5.00

Grade 12

This course is designed to provide students with skill in managing the administrative and technical aspects of IT projects. Among the major areas to be covered in the course are IT Change Management, IT Asset/Configuration Management, project management creation and implementation via cloud-based PM tools, IT Release Management, and appropriate metrics and reporting. *Prerequisite: Supporting the Technology Environment (minimum grade of 80%); requires instructor approval*



Office of Technology

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COURSE APPLICATION - 2016-2017 SCHOOL YEAR
COURSE NAME: Supporting the IT Environment

PLEASE SUBMIT THIS FORM TO YOUR COUNSELOR DURING COURSE SELECTION

Instructor: Mr. Johnston

Overview: HC offers a course that will allow students the opportunity to support the school's technology environment. Duties for students in the course will include iPad and hardware troubleshooting, application support, network configuration, customer service, and several other areas.

Name: _____ Graduation Year (Circle One): 2017 2018

Current GPA (approx): _____ Email: _____

Phone: _____

Are you available to be interviewed during the month of June/July in person or via phone/web?
Yes No

Name of an HC teacher that can recommend you for admission to this course:

Recommending teacher initials: _____

Are you available to attend a course orientation session during the month of August?
Yes No

Do you have any experience developing or troubleshooting technology solutions?
Yes No

Why would you like to be a part of Hudson Catholic's new technology course?

What technology areas interest you the most? (Check all that apply)

Table with 2 columns: checkbox, text. Rows include: Example, General troubleshooting, Customer service, Network configuration, Supervision of technology personnel, Application development, Teacher/classroom tech support, Other:

A course information session will be held during the week of 06/01/16.
Questions can be directed to Mr. Johnston at cjohnston@hudsoncatholic.org.



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2016-2017 PEER MINISTRY APPLICATION

Name _____

Homeroom _____

Contact Phone Number _____

You must have two teachers sign below to indicate that you are a good candidate for Peer Ministry.

Teacher Recommendation: _____

Teacher Recommendation: _____

Religion Average as of 2ND Quarter: _____

(You must have at least an overall 85 average in Religion courses order to apply)

In a 250-word essay, please explain why you think you would be a good candidate for Peer Ministry. Please attach essay to this application.

APPLICATION AND ESSAY DUE **FEBRUARY 26, 2016**