2019-20 Course Guide



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Immaculate High School Course Guidelines

Immaculate High School course offerings are designed to provide an opportunity for students to pursue their interests as well as meet the requirements established by the Diocese of Bridgeport and the State of Connecticut. The process for selecting courses includes students reviewing the course guide, registering electronically and meeting with a counselor. Registration for courses should represent a firm commitment to enrollment in courses for the following year. However, a student may request a program change June 17-21, 2019:

-successful completion of an approved summer school course;

-discovery of a clerical error; or

-a course has been cancelled due to insufficient enrollment.

Course Levels

All course levels are created to provide an opportunity for every student to be successful as they prepare for college and beyond. We develop the courses with the intent to support learning needs and abilities so that students may progress to more challenging coursework during their four years at Immaculate. Students matriculate each school year with the opportunity for being engaged in new academically challenging courses.

College Preparatory Courses

The College Preparatory program is designed to offer stringent scholastic requirements for entry into colleges and universities. Courses include a rigorous quantity of classwork, homework, and expectations to achieve and meet the content skills expected by diverse colleges and universities. This level offers extended student support to master content, organizational and study skills.

Honors College Preparatory Courses

The rigor of a regular college preparatory course is extended and demands that a student be independent and have an ability to have more time for additional writing assignments, homework and classwork. The GPA weight per course is +0.3.

AP and ECE College Courses

This level of coursework has a syllabus approved by the College Board and affiliated colleges. Students must meet stringent prerequisites and are expected to engage in a college-level instruction model where the teacher facilitates instruction and the student is independent. Students must take the required AP or ECE exam as well as the course exam. The GPA weight for this level is +0.7. Exemption from the course exam is offered to seniors who have achieved a 90% in the course.

Student Ranking

Effective in the 2019-20 school year, Immaculate High School will adhere to the common practice of internal ranking of students beginning at the end of five semesters to those colleges who request such information for scholarships/other, for military school requests and for top ten student announcements in June. Percentile ranking only will appear on student transcripts. It is at the discretion of the school administration to determine the process of a top ten graduation speaker.

REQUIREMENTS FOR IMMACULATE HIGH SCHOOL DIPLOMA CLASS 2021 AND BEYOND

To meet minimum credits for graduation, students are required to earn **25** credits. The below requirements for graduation reflect the minimum core course requirements. Please consult with your school courselor for the recommended distribution of courses and credits most suited to your educational and career plans.

Religion	4 years	4.0
English	4 years	4.0
Mathematics	4 years	4.0
Science	3 years	3.0
Social Studies	3 years	3.0
World Languages	2 years	2.0
Fine Arts	1 year	1.0
Physical Education	2 years	1.0
Senior Seminar (Health/Personal Finance)	1 year	1.0
Community Service (25 hrs/yr)	4 years	1.0
Elective Credit Career & Technical Education: Business Technology World Languages	1 year	1.0
	Total Credits for Graduation	25

Freshmen Year	
Subject	7.75 Credits
Religion	1.0
English	1.0
Mathematics	1.0
Science (Biology)	1.0
Social Studies (World History)	1.0
World Languages	1.0
Physical Education	0.5
Elective	1.0
Community Service 25 hrs	0.25

Junior Year	
Subject	7.25 Credits
Religion	1.0
English	1.0
Mathematics	1.0
Science	1.0
Social Studies (US History)	1.0
World Languages	1.0
(recommended)	
Elective	1.0
Community Service 25 hrs	0.25

Sophomore Year	
Subject	7.75Credits
Religion	1.0
English	1.0
Mathematics	1.0
Science	1.0
Social Studies (Gov/RegStudies)	1.0
World Languages	1.0
Physical Education	0.5
Elective	1.0
Community Service 25 hrs	0.25

Senior Year	
Subject	6.25Credits
Religion	1.0
English	1.0
Senior Seminar (Health/Finance)	1.0
Electives: Mathematics (recommended) Science (recommend) World Languages (optional) Open Courses	3.0
Community Service 25 hrs	0.25

REQUIREMENTS FOR IMMACULATE HIGH SCHOOL DIPLOMA CLASS of 2020

Religion	4 years	4.0
English	4 years	4.0
Mathematics	3 years	3.0
Science	3 years	3.0
Social Studies	3 years	3.0
World Languages	2 years	2.0
Fine Arts	1 year	1.0
Physical Education	2 years	1.0
Senior Seminar (Health/Personal Finance)	1 year	1.0
Open Electives	2 years	1.5
	Total Credits for Graduation	23.5

Freshmen Year	
Subject	7.5 Credits
Religion	1.0
English	1.0
Mathematics	1.0
Science (Biology)	1.0
Social Studies (World History)	1.0
World Languages	1.0
Physical Education	0.5
Elective	1.0
Community Service 25 hrs	

Junior Year	
Subject	7.0 Credits
Religion	1.0
English	1.0
Mathematics	1.0
Science	1.0
Social Studies (US History)	1.0
World Languages (recommended)	1.0
Elective	1.0
Community Service 25 hrs	

Sophomore Year	
Subject	7.5Credits
Religion	1.0
English	1.0
Mathematics	1.0
Science	1.0
Social Studies (Gov/RegStudies)	1.0
World Languages	1.0
Physical Education	0.5
Elective	1.0
Community Service 25 hrs	

Senior Year	
Subject	6.0Credits
Religion	1.0
English	1.0
Senior Seminar (Health/Finance)	1.0
Electives: Mathematics (recommended) Science (recommend) World Languages (optional) Open Courses	3.0
Community Service 25 hrs	

English Department

Freshman Year English I CP English I H

Sophomore Year English II CP English II H

Junior Year

English III: American Literature CP American Literature H Language and Composition AP

Senior Year

British Lit/ Creative Writing CP British Lit/Shakespeare Drama British Literature H AP Literature and Composition

Junior/Senior Electives: Public Speaking/Film Literature

0111 ENGLISH I CP

This two-semester course is an introduction to basic concepts of literature and composition. Students read, analyze, and evaluate various genres of literature including short story, drama, novel, essays, poetry, biography, and autobiography. Review of basic grammar, unity and coherence in writing is stressed. Other topics include study skills, research skills, and vocabulary development.

0112 ENGLISH I H

In addition to the English I concepts, this two-semester Honors course practices essential skills with a stress on close-reading strategies as well as written and oral communication. Quarterly independent reading is required throughout the year. Students have multiple opportunities throughout the year for creative writing and presentations based upon their reading. Additionally, there will be training in standardized test-taking strategies.

0121 ENGLISH II CP

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

0122 ENGLISH II H Prerequisite: 90 in English I CP or 85 in English I H 1 Credit

English II Honors is an accelerated two-semester course that consists of in-depth analyses of challenging classical and modern readings. Students examine textual and supplementary examples of short story, poetry, drama, non-fiction, novels, and medieval legends. Expository writing and the writing process are emphasized, complemented by extensive vocabulary study. The students read independently and produce several small papers and one comprehensive research paper. Critical thinking skills are emphasized in preparation for the PSAT, ACT, and SAT.

0131 English III CP: American Literature

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

0132 ENGLISH III H : American Literature H Prerequisite: 90 in Eng. II CP or 85 in Eng. II H

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

1 Credit

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1 Credit

1 Credit

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0133 LANGUAGE AND COMPOSTION AP

Prerequisite: 95 in Eng. II CP or 90 in Eng. II H, plus teacher endorsement Students are required to take the AP Language & Composition exam as well as course exam. In the two-semester AP English Language and Composition class, student reading and writing experiences focus on diversified non-fiction prose. Teachers ask that students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts. Writing tasks give students the practice necessary to make them aware, flexible writers who can compose in different modes and for different purposes. In developing sophisticated reading and writing skills, students explore and describe how language works. They learn to observe and analyze diction and syntax that create subtle effects on language. AP students learn to describe language through discussion of rhetorical strategies and terms, demonstrating a working knowledge of parts of speech, structural patterns, awareness of connotation and shades of meaning in context. Attention will be focused on models from major American literature selections.

0142 ENGLISH IV: BRITISH LITERATURE H

Prerequisite: 90 in Eng.III CP or 85 in Eng. III H or AP Language and Comp English IV Honors is intended for students of exceptional reading and writing ability. Like English IV CP, the course surveys English literature in the Anglo-Saxon, Medieval, Renaissance, and Elizabethan periods, and the 17th, 18th, and Romantic 20th centuries, where students will study literary genres including English poetry, drama, the essay, short story, and novel. In addition to outside readings of critical analysis and comparative studies, independent study, research and expository papers are required.

0143 LITERATURE AND COMPOSITION AP

Prerequisite: 95 in Eng. III CP or 90 in Eng. III H or 85 AP Language and Comp, plus teacher endorsement. *Students are required to take the Literature & Composition AP exam as well as course exam.* Literature and Composition AP is a college-level course for qualified, highly-motivated seniors. Concentrating on British Literature, the course includes representative works in several genres including novel, short story, poetry, drama and essay. Students receive a list of required works to be read during the summer. In addition to close analysis of the representative works, frequent writing assignments develop the student's style and skill. Workshops will be used to develop additional skills required on the AP exam and to provide students with a more intensive writing experience.

145/155 BRITISH LITERATURE .5/CREATIVE WRITING CP .5 Credit Senior level class.

British Literature CP surveys English literature in the Anglo-Saxon, Medieval, Renaissance, and Elizabethan periods, and the 17th, 18th, and romantic (19th) centuries. Students study the various literary genres in these periods, including English poetry, drama, the essay, short story, and novel. In addition, the student can expect to produce a major research paper, along with numerous other papers designed to develop the student's academic and creative expression. The one semester writing course is designed to enhance student recognition, understanding, appreciation and application of strong writing skills. The course will explore a variety of styles and techniques in order to equip the student with a range of writing approaches. Students will model various styles of fiction, poetry and drama creating original short stories, poems and a one-act play. The school literary magazine will be a product of the class. Assessment will be by portfolio.

146/157 BRITISH LITERATURE (.5)/ SHAKESPEARE DRAMA(.5) CP

British Literature surveys English literature in the Anglo-Saxon, Medieval, Renaissance, and Elizabethan periods, and the 17th, 18th, and romantic (19th) centuries. Students study the various literary genres in these periods, including English poetry, drama, the essay, short story, and novel. In addition, the student can expect to produce a major research paper, along with numerous other papers designed to develop the student's academic and creative expression. The Shakespeare/Drama course focuses on both Shakespeare and modern works, incorporating reading, interpretation, and the preparation and presentation of monologues and scene studies. Students will become comfortable with basic terminology of the theatre, formulate design concepts, set renderings, costume and makeup techniques, and learn how these elements contribute greatly to both our understanding of the playwright's words and the audience experience. The final grade will be determined in part by a student portfolio.

0101/0157 PUBLIC SPEAKING .5/FILM LITERATURE .5 CP

Designed to learn effective public speaking communication skills. In this performance-based course, students will examine effective speaking techniques and self-presentation skills to be utilized in individual, group and/or public speaking opportunities. Attention will be given to speech-writing composition and analysis of famous public speeches. Film Literature examines film masterpieces and how stories are an essential part of every human culture. Students will analyze the use of plot, setting, style, and point of view in classic films. Class activities include viewing, listening, researching, and analyzing film. This course requires parental permission before students can participate in the classroom viewing. ****Please be advised that Film Lit is not an NCAA sanctioned class.**

1 Credit

1 Credit

1 Credit

Junior and Senior Elective

Math Department

Freshman Year Algebra I CP Algebra I H

Proficiency Test *Required*: Geometry CP Geometry H

Sophomore Year

Geometry CP Algebra <u>II C</u>P Algebra II H

Junior Year

Algebra II CP Math IV/Trig CP Pre-Calculus CP Pre-Calculus H Introduction to Statistics

Senior Year

Math IV Trig CP Pre-Calculus CP Pre-Calculus H Calculus H AP Calculus (AB)/ECE Introduction to Statistics

Virtual Classes for students who have completed math program requirements: AP Calculus (BC) Statistics AP

0211 ALGEBRA I CP

This two-semester course develops a background in basic algebraic skills: basic properties of real numbers; solving first- degree equations; word problems using first-degree equations; solving firstdegree inequalities; word problems using first-degree inequalities; graphing linear functions in two variables; solving linear systems in two variables by substitution and linear combination; word problems using linear systems in two variables; operations with radicals; operations with polynomials; factoring polynomials; simplifying rational expressions; operations with rational expressions; solving quadratic equations over the rational numbers by factoring and quadratic formula; and solving word problems using quadratic equations.

0212 ALGEBRA I H

This two-semester course requires an in-depth study of all the topics covered in the (CP) Algebra I Course with an increase in pace and rigor and offers additional topics such as: linear, quadratic and exponential functions; solving quadratics over the real numbers by completing the square; solving quadratic functions over the real numbers by the quadratic formula; and Data Analysis and Probability. Practical applications of real-world problems will be incorporated throughout this course.

0221 GEOMETRY CP

This-two semester course, sequential to Algebra I, is an integration of plane geometry with arithmetic and algebra. Syllabus includes all of the basic concepts of geometry, such as points, lines, planes, angles, triangles, quadrilaterals, polygons, circles, congruence, similarity, formal and indirect proofs, constructions, areas and volumes of solids, translations and trigonometric ratios of right triangles.

0222 GEOMETRY H Prerequisite: 82 in Algebra I H or 93 in Algebra I CP 1 Credit

This two-semester course, sequential to Algebra I (Honors), requires an in depth study of all topics covered in the CP Geometry course, but offers such additional topics as: elementary logic; 3dimensional concepts; transformations; similarity in polygons; parallel lines and planes; coordinate geometry; inequalities in geometry; trigonometric ratios of right angles; geometric probability, and applications of real-world problems relating to each topic studied.

0231 ALGEBRA II CP

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

0232 ALGEBRA II H

Prerequisite: 82 in Geometry H or 93 in Geometry CP

This two-semester course is sequential to Geometry H and requires an in depth study of all topics covered in the CP Algebra II course, but offers such additional topics as: polynomial equations and functions; rational equations and functions; radical equations and functions; piece-wise functions; operations with matrices; analytic geometry; trigonometry of the right triangle and the unit circle; graphing sine and cosine and applications of real-world problems relating to each topic studied.

1 Credit

1 Credit

1 Credit

1 Credit

1 Credit

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0241 MATH IV/TRIG CP Prerequisite: Algebra II

1 Credit

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This two-semester course is a functions approach to algebra and trigonometry covering: equations and inequalities, functions and graphs, system of equations and inequalities, determinants, exponential and logarithmic functions with applications, trigonometry with both an analytic and triangular emphasis, complex numbers including graphical representation, and polar notation. This course is totally integrated with a TI-84 + calculator.

0246 PRE-CALCULUS CP Prerequisite: 82 in Algebra II CP/72 in Algebra H/or Completion of MathIV/Trig 1 Credit

This two-semester course, a functions approach to advanced algebra and trigonometry, covers the following topics: factoring, completing the square, discriminate, quadratic formula, equations of lines, polynomial and rational functions, partial fraction decomposition, linear and nonlinear systems of equations, linear programming, exponential and logarithmic functions, and matrices and determinants. Additional emphasis is given to the trigonometric functions including the unit circle, graphs, identities, and inverse functions and their graphs. This course is totally integrated with the TI-84+ calculator.

0242 PRE-CALCULUS H Prerequisite: 82 in Algebra II H/93 in Algebra II CP and teacher endorsement & placement test 1 Credit

This two-semester course is sequential to Algebra II (H), provides an in-depth study of advanced algebra and trigonometry: polynomial and rational functions and their graphs, inverse functions, composition of functions, linear and nonlinear systems of equations, partial fraction decomposition, linear programming, polynomial and rational inequalities, exponential and logarithmic functions with applications, matrices and determinants, and arithmetic and geometric series and sequences. Additional emphasis is given to the trigonometric functions including the unit circle, graphs, identities, inverse functions and their graphs, complex numbers in polar form, DeMoivre's Theorem; and graphs of polar equations. The curriculum of the College Board SAT Subject Test (Level II) is covered. This course is totally integrated with a TI-84+ calculator.

0244 CALCULUS H

Prerequisite: 77 in Pre-Calculus H/ 87 in Pre-Calculus CP

Two-semester course, sequential to Pre-Calculus, is an introductory college-level course intended for students who desire to enroll in a university Calculus course or in AP Calculus. The course contains an examination of polynomials; rational, exponential, trigonometric and logarithmic functions with an emphasis on the study of differential and integral calculus in one variable. TI-84+ calculator required.

0243 CALCULUS/AB ECE Prerequisite: 87 or higher in Pre-Calculus H or Completion of Calculus H 1 Credit This

two-semester course, sequential to Pre-Calculus H, prepares students for the Advanced Placement Calculus examination (AB level). Topics include: limits and continuity; L'HÔpital's Rule; the differential calculus of algebraic, trigonometric, exponential and logarithmic functions; anti-derivatives of algebraic, trigonometric, exponential and logarithmic functions; techniques of integration, definite integrals and numerical approximations; the solutions of differential equations and their representation by slope field. The derivative, as the slope of a function at any given point and the definite integral, as the area under a function between any two given points, are regularly graphed and checked on a graphing calculator. Applications of derivatives and integrals are explored regularly. Students are required to take the AP Exam and course exam. ECE exam is optional. TI-84+ calculator required.

0203 INTRODUCTION TO STATISTICS H

Completion of Pre-Calculus or concurrently with Pre-Calculus H/90 in Math IV Trig

This two-semester course is a general introductory course to the field of statistics. The content is designed to provide students with the basics of statistics that can be used across many fields of study. Students study the organization, analysis, and interpretation of data; methods of planning and conducting a study, survey, and experiment and probability theory and simulations in everyday situations. TI-84 graphing calculator for applications is required.

1 Credit

Science **Department**

Freshman Year Biology CP

Sophomore Year

Principles of CP Chemistry CP Chemistry H

Junior Year

Environmental Science CP Chemistry CP Physics CP Advanced Healthcare & Biosciences H Physics H Chemistry AP

Senior Year Physics CP

Physics H Physics I AP Physics 2 AP **Biology AP/UCONN** Chemistry AP

Electives: Junior and Forensic Science CP Principles of CP Human Anatomy and Human Anatomy and Physiology CP Advanced Healthcare & Biosciences H Internship H

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0411 BIOLOGY CP

1 Credit This Emphasis is placed on fostering an awareness of the relevance of the study of biology to their lives. After mastering the fundamentals of organic chemistry, including the structure of the atom and periodic table, students will study the chemical properties of water, cellular structure and function, the production and consumption of energy by living things, the process of cell division, basic genetic principles, modern genetics, and applied human genetics as well as evolution and an overview of the five taxonomic kingdoms. Experiments, microscope procedures, biochemical analysis, and microbiology are assigned.

0412 BIOLOGY H

1 Credit This two-semester lab course introduces the Honors level freshmen to the major biological principles: cellular structure and function, evolution, genetic continuity, metabolism as well as an overview of the diversity of life on earth. Emphasis is placed on science as inquiry. Students perform numerous experiments, covering basic laboratory skills, biochemical analysis and microscopic procedures and studies.

0431 CHEMISTRY CP Co-requisite: Completed or Co registered for Algebra II CP or Algebra II H 1 Credit

This two-semester lab course conceptually examines the basic physical and chemical properties of matter and the energy changes that occur during phase change and chemical reactions. It includes the study of atomic structure, chemical bonding, naming compounds, equation writing, stoichiometry, the gas laws, kinetic theory, solutions, and acids and bases. Problem solving approach is emphasized when appropriate. Scientific calculator required.

0422 CHEMISTRY H

1 Credit

Prerequisite: 79.5 in Biology H and and 9th Grade Honors Math Course or or 94.5 in Biology CP and 87.5 CP Geometry This two-semester lab course conceptually and mathematically analyzes basic chemical phenomena. Topics studied include: the unit-analysis method of problem solving, measurement, atomic structure, the historical development of modern atomic theory, the periodic table, chemical bonding, and energy changes in chemical and physical changes. Skill in naming chemical compounds and writing balanced chemical equations is emphasized. Both the behavior of various states of matter and the gas laws are studied with the kinetic molecular theory. Studies of solutions and acid/base chemistry are included. Scientific calculator required.

0463 CHEMISTRY AP

1 Credit

Pre-requisite 84.5 Chemistry H or Physics H, teacher endorsement Concurrent enrollment in Math IV/TRIG or Pre-Calculus

This two-semester lab course is a first-year college chemistry program. This course prepares students for the Advanced Placement Examination in Chemistry. A summer assignment to review the fundamental skills is required. Strong emphasis is placed on chemical calculations, the mathematical treatment of problems, and laboratory work. Students are required to take the AP Chemistry final exam. Each student must have a scientific/graphing calculator.

0424 PRINCIPLES OF BIOMEDICAL SCIENCE CP

Prerequisite: CP or H Biology This two-semester lab course includes the study of human medicine, research processes, and mathematics to model and study biological systems. Students will investigate the human body systems and various health conditions. Students will determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. Key biological concepts include homeostasis, metabolism, inheritance of traits, feedback systems and defense against disease. This course is designed to allow students to explore a range of careers in biomedical sciences.

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0448 ENVIRONMENTAL STUDIES CP Prerequisite 80 in Biology CP

This course examines earth's natural systems and the impact that human activity has on these systems including positive, solution-oriented responses from a local, regional, and global perspective. Students will collaborate on projects, pursue independent study and participate in field trips. Topics include agroecology/organic agriculture, CO₂ sequestration, natural resource management, water quality and environmental monitoring, renewable energy, sustainable systems design and bioremediation. Case studies may involve regional natural resource study of the Long Island Sound, Lake Candlewood, area organic farms, and renewable energy installations.

0453/1107 BIOLOGY/UCONN and AP

Prerequisite: 84.5 in Biology H & Chemistry H, or 94.5 in Biology CP & Chemistry CP, teacher endorsement This two-semester college-level Biology course includes chemistry of life, cells, cellular energetics, heredity, molecular genetics, evolutionary biology, diversity of organisms, structure and function of plants and animals, and ecology. Independent outside reading and independent learning is expected. A successful performance on the AP exam may earn college credit and/or advanced placement in college and ability for students to register for Biology 1107 to earn 4 college credits from UCONN that are transferable to 90% of the colleges and universities throughout the nation. Fee required.

0435 PHYSICS CP Prerequisite: Completion of Chemistry CP or H and Algebra II CP or H 1 Credit

Physics is the study of matter and energy and how they interact. This lab course focuses on the central concepts of physics with an emphasis on the relationship to events in the everyday environments, problem solving techniques that apply to a number of different problems, basic algebra to solve analytical problems as well as logic and synthesis of information to solve conceptual problems. Newton's Laws of Motion, velocity and acceleration, conservation of energy and momentum, gravity, thermodynamics, waves and sound, optics, electrostatics, electricity, and magnetism are introduced.

0436 PHYSICS H

Prerequisite: 79.5 average in CP Algebra II and CP Chemistry, OR 79.5 average in Honors Geometry or Honors Algebra II and Honors Chemistry. Co-requisite: Concurrent enrollment in either Math IV/TRIG, Honors Algebra II or Pre-calculus. This course mathematically analyzes basic physical phenomena: motion, force, energy, heat, waves, sound, light, electricity and magnetism. During the year each student performs approximately 16 experiments on these topics. Comprehensive written lab report is submitted following each experiment. Intended for those students who desire a college physics course for degrees other than engineering, sciences, math and medical fields. scientific calculator, protractor and compass required.

0444 PHYSICS Part 1 AP Prerequisite: 79.5 in Honors Algebra II or 84.5 in CP Algebra II Junior Year 1 Credit Co-requisite: Concurrent enrollment in either Math IV/TRIG or Pre-Calculus

This lab course prepares students for the Advanced Placement examination in Physics 1. The curriculum represents topics covered in a non-calculus first semester college physics course: Newtonian mechanics, work/energy and power, mechanical wave and sound as well as an introduction to electric circuits, application of familiar principles and logical solutions. Each student must have a scientific or graphing calculator. Intended for those students planning on majoring in chemistry, biology or physics, any engineering course, mathematics or medical fields. This course should be taken during junior year. Students are required to take AP Physics 1 exam and course exam.

0445 PHYSICS Part 2 AP

Senior Year Prerequisite: Completion of AP Physics Part 1 or 89.5 in Honors Physics with teacher endorsement Co-requisite: Concurrent enrollment in either Math IV/TRIG or Pre-Calculus.

This lab course follows AP Physics 1 and prepares students for the Advanced Placement examination in Physics 2. The curriculum represents topics mastered in a non-calculus second semester college physics course: fluid mechanics, thermodynamics, light and optics, electricity and magnetism, atomic and nuclear physics. A strong emphasis is placed on the application of familiar principles in new situations in which the student must devise a logical solution. Students are required to take the Advanced Placement Physics 2 exam and course exam.

1 Credit

1 Credit

0441 HUMAN ANATOMY & PHYSIOLOGY CP Junior/Senior elective 1 Credit

Prerequisite: Junior/Senior elective; 79.5 in CP Biology or 70 in Biology H, Concurrent Chemistry advised. Twosemester lab course offering is for any student considering a career in health studies, medical science, physical training or any other related field. Designed for highly motivated students, a review of human biological concepts learned in earlier courses is quickly followed by the study of human structure and function, both in health and illness. Lecture and lab activities as well as various research and independent work projects are included.

0401 HUMAN ANATOMY & PHYSIOLOGY HJunior/Senior elective1 CreditPrerequisite: 85 in CP Biology or 90 in Biology H, Concurrent Chemistry advised. Concurrent course with AdvanceHealthcare & Biosciences course. Two-semester lab course offering is for any student considering a career in health studies, medical science, physical training or any other related field. Designed for highly motivated students, a review of human biological concepts learned in earlier courses is quickly followed by the study of human structure and function, both in health and illness. Lecture and lab activities as well as various research and independent work projects are included.1

0447 FORENSIC SCIENCE CP Junior/Senior elective

Forensic science is a comprehensive study of the sciences used by police agencies in the criminal justice system. Major topics include processing a crime scene, identification and analysis of evidence, fingerprint analysis, serology, document analysis, firearm identification, toxicology and explosion and arson identification. This course will use real world examples, multimedia sources, basic theory and laboratory work to create an exciting way for the student to explore the subject. Lab experiments will reinforce or teach basic principles of biology, chemistry and physics.

0403 ADVANCED HEALTH CARE & BIOSCIENCES H Junior/Senior elective

Prerequisite: 85 in Biology H or 90 in Biology CP

This course prepares students for entry into health and medical science college studies including nursing, physical and occupational therapy and supports students with broadening their understanding of medical career pathways and health care systems while developing skills in Allied Health" infection control, common and acute health conditions, communication, patient rights, patient safety, medical record documentation, medical terminology, physical rehabilitation, and more.

0402 NURSING ASSISTANT INTERNSHIP H

Prerequisite: 85 in Biolgy H or 90 in Biology CP

Students participate in off-campus clinical rotations to meet the requirements of 60 or more clinical experience as required for CT Nursing Assistant certification. Strong focus on the development of healthcare skills and procedures. Course is taken concurrently with Advanced Health Care & Biosciences H and Physiology H.

Junior/Senior elective

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1 Credit

.5 Credit

Freshman Year Modern World History CP Modern World History H

Sophomore Year

US Government/ Regional US CP US Government/ Regional US H

Junior Year

US History CP US History H US History AP/UCONN International Relations H

Junior and Senior Year Electives Taken in addition to required courses:

The Cold War CP Contemporary U.S. Issues CP Criminal Justice CP Principles of Economics H Psychology AP American Government& Politics AP

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1 Credit

1 Credit

0525 MODERN WORLD HISTORY CP

This survey course examines the progress of human civilization from the time of the French Revolution of 1789 to the emergence of the 21st Century. Topics include the general evolution of government from absolutism to popular consent. Overview of major world events such as the Age of Enlightenment, Modern Revolutions, National Unification Movements, the World Wars, the Cold War, and the emergence of Global thinking at the dawn of the 21st Century are closely examined.

0526 MODERN WORLD HISTORY H

This survey course examines the in-depth progress of human civilization from the time of the French Revolution of 1789 to the emergence of the 21st Century. Emphasis is placed on the evolution of government from absolutism to popular consent. Major world events such as the Age of Enlightenment, Modern Revolutions, National Unification Movements, the World Wars, the Cold War, and the emergence of Global thinking at the dawn of the 21st Century are closely examined. There will be an emphasis on historical research and appreciation through essay writing.

510 US GOVERNMENT CP

American Government is a one semester course and a general introduction to the American governmental system. It provides a description of the framework within which political decisions in the United States are made. Students will become aware of their basic rights, duties, and responsibilities as American citizens. Topics will include: basic principles of government, the U.S. Constitution, branches of government, personal liberties and justice, election campaign patterns, and voting procedures. US Government is a state mandated course for graduation.

0552 REGIONAL AMERICA CP

A short introductory unit will be given on map skills, climate, environment, major landforms, and religions of these nations prior to the individual study of each country. Historical, cultural, and current issues of each region will also be analyzed including immigration, patterns of human settlement, economic activity, land use, physical and political geography, and the politics of each nation.

0553 REGIONAL AMERICA H

Prerequisite: 79.5 in Social Studies course H or 89.5 in Social Studies course CP Regional Studies: Americas (H) is an in-depth analysis of the major regions comprising North America (Canada, Mexico, United States). A short introductory unit will be given on map skills, climate, environment, major landforms, and religions of these nations prior to the individual study of each country. Historical, cultural, and current issues of each region will also be analyzed including immigration, patterns of human settlement, economic activity, land use, physical and political geography, and the politics of each nation. A written project on each nation studied will be required. In addition, weekly current events discussions with news article summaries as well as outside readings will be given on a regular basis.

509 US GOVERNMENT H

Prerequisite: 79.5 in Social Studies course H or 89.5 in Social Studies course CP

American Government (H) is a one-semester course with an in-depth study of the government of the United States with emphasis on individual rights and liberties. Students will study the Bill of Rights, the Constitution, the federal court system, landmark Supreme Court cases, political parties, mass media and public opinion, the branches of government, and comparative economic and political systems. US Government is a state mandated course for graduation.

.5 Credit

.5 Credit

.5 Credit

.5 Credit

13

0531 US HISTORY SINCE 1877 CP

This two-semester college-preparatory level class offers a survey of United States history from the end of the Reconstruction (1877) to the present. Emphasis is placed on the growth of the United States as a world power, America's role in the World Wars, its domestic issues and world involvement in the second half of the 20th century, and the country's entry into and the new challenges of the 21st century. This is a required state mandated course for graduation.

0532 U.S. HISTORY SINCE 1877 H

Prerequisite: 79.5 in social studies course 89.5 in Social Studies course CP

The honors level course offers a more detailed approach to United States history from the end of Reconstruction (1877) to the present than the survey style of the CP level course. Emphasis is placed on the growth of the United States as a world power, America's role in the World Wars, its domestic issues and world involvement in the second half of the 20th century, and the country's entry into and the new challenges of the 21st century. This is a required state mandated course for graduation.

0533 U.S. HISTORY AP / UCONN

Prerequisite: 84.5 in H or 94.5 in CP during Sophomore year, teacher endorsement

This two-semester advanced-placement AP level course is an in-depth examination of American history from the Age of European Exploration to the present, emphasizing political, social, economic, diplomatic, and intellectual interpretations of events. Students are required to do extensive reading and essay assignments at an advanced level, in order to develop the reading-comprehension and writing-proficiency skills required on the advanced-placement exam. Students are required to take the Advanced Placement U.S. History final exam given in May. A successful performance on the AP exam may earn college credit and/or advanced placement in college for the participating student. Additionally, the course is affiliated with the University of Connecticut. By registering with UCONN, students can earn six college credits that are transferable to 90% of the colleges and universities throughout the nation. Summer readings and assignments are a requirement for the course. This is a required state mandated course for graduation.

0507 INTERNATIONAL RELATIONS H (Junior/Senior Elective) .5 Credit

Prerequisite is a 79.5 average in previous honors or AP Social Studies courses; or an 89.5 average in CP courses. Students will develop an understanding of global interdependence by exploring challenging issues facing the world community. Major issues in the demographic, environment, economic and geopolitical realms. The course's main focus will be in preparing students for a Model United Nations experience. Students will be required to attend a college-sponsored Model United Nations conference in the spring. Be aware that there are additional fees and expenses that will be needed for participation in the college conference. *This course will be offered in the Spring semester only.*

0508 CRIMINAL JUSTICE CP (Junior/Senior Elective)

Course will provide students with an opportunity to learn how the justice system works in our society, Students will be given a practical understanding of law and the American legal system. The course will focus on two key ares of jurisprudence: criminal law and criminal procedure. The course will focus on the responsibility of citizens in the framework of the judicial system of the United States.

0552 COLD WAR CP (Junior/Senior Elective)

The Cold War will examine the causes, affect and outcome of this post World War II history. As the world polarized to two great powers: the United States and the Soviet Union there were political, economic and military areas of impact. This semester course will investigate these areas of tension while focusing on implications of capitalism and communism. Finally, the course will look at the lasting impact of historical era and how it still has impact on today's world.

0554 CONTEMPORARY U.S. ISSUES CP (Juniors/Seniors Elective) .5 Credit

Students will make an in-depth analysis of current issues on the American political, social and cultural areas of modern America. Emphasis will be placed on the study of recent American history as the basis for contemporary American perspectives. Issues studied will range from domestic social issues such as Black Lives Matter, changing family structures, and the opioid crisis. Current foreign policy concerns will also be studied, including North Korea, immigration and the war on terror.

0508 TRIAL LAW (FALL SEMESTER ONLY)

Prerequisite is a 79.5 average in previous honors or AP Social Studies courses; or a 85 average in CP courses. The course will center upon torts, contracts, Constitutional Law, property, Civil Procedure, and Criminal Law. This program will be co-taught with guest attorneys who will serve as the Mock Trial coaches. Be aware that there will be fee to participate in the Mock Trial Competition. This course will run in the Fall.

1 Credit

1 Credit

1 Credit

.5 Credit

.5 Credit

.5 Credit

0513 CRIMINAL JUSTICE CP Junior/Senior Elective

This is a junior or senior elective that is presented as a semester course. It will provide students with an opportunity to learn how the justice system works in our society. Students will be given a practical understanding of law and the American legal system. The course will focus on two key areas of jurisprudence: criminal law and criminal procedure. The course will focus on the responsibilities of citizens in the framework of the judicial system of the United States.

0562 AMERICAN GOVERNMENT AND POLITICS AP

Prerequisite: 84.5 in Social Studies course H or 90 in social studies course CP, teacher endorsement Prerequisite: American Government or concurrently taking American History

This two-semester course in government and politics provides the student with a variety of theoretical perspectives and explanations of the general concepts used to interpret and analyze U.S. politics. Particular attention is paid to the interaction between the various government branches and the role of Congressional committees, Executive departments, and judicial oversight. The methods by which the individual can affect government policy and the importance of public opinion will be the focus of study. Participation in the Connecticut state competition on the Constitution is part of this class. Students are required to take the AP American Government and Politics course exam in May.

0573 PSYCHOLOGY AP

Prerequisite: 84.5 in Social Studies H course or 90 in Social Studies CP, teacher endorsement

Psychology is the study of human behavior based on social interaction with others. What effects does behavior have upon the lives of others, as well as upon oneself? This course explores these basic questions as well as other topics dealing with human behavior, including states of consciousness, memory, intelligence, personality theories, behavior disorders, and their treatments. The class focuses on the ways in which psychology operates in everyday life. In addition to lectures, teaching strategies include videotapes, interviews, debates, and other active learning exercises. Students are required to take the AP Psychology and course final exam in May.

0576 PRINCIPLES OF ECONOMICS H

Prerequisite: 79.5 in social studies course H or 89.5 in Social Studies course CP

This two-semester course is an in-depth course on the basic principles of economics. The course examines the modern capitalist system as its chief emphasis, though comparative economic systems are examined as well. All aspects of modern economics are discussed, researched and analyzed. The fundamentals of Microeconomics and Macroeconomics, including topics such as the national GDP compared to other countries will be examined. National income, economic growth, employment, inflation/deflation, business cycle and international trade are analyzed.

1 Credit

1 Credit

1 Credit

World Languages Department

Students may begin their World Language studies during their freshman year.

Proficiency tests are offered to students who wish to begin at a level higher beyond the Level 1 course in Spanish or French.

All language courses are virtual with the exception of French and Spanish. All courses are accredited.

Students should take a minimum of two consecutive years of one language. A minimum of three consecutive years of World Language is highly recommended.

0319 INTRODUCTION TO SPANISH CP 1 Credit

This two-semester course is an introduction to basic grammatical concepts, vocabulary, and idiomatic expressions. It will help students to develop all four of the basic skills needed for success in second-language acquisition: listening, speaking, reading and writing. Vocabulary topics include talking about family, friends and possessions and communication about likes, dislikes, and daily activities. Students also learn about the commonalities and differences between and among the various Hispanic cultures and our own.

0312 SPANISH I H

1 Credit

Prerequisite: 90 in Intro to Spanish or Teacher recommendation

This two-semester course is designed for the qualified, highly-motivated beginner. The four basic skills of listening, speaking, reading and writing is stressed at an accelerated pace with Spanish being the primary language spoken in class. Students accrue vocabulary and learn grammatical concepts that enable them to communicate effectively in both the present and past tenses. A variety of audio, video, reading and hands-on activities related to the Spanish-speaking world enable the students to compare and contrast the various Hispanic cultures with each other as well as with their own culture.

0326 FUNDAMENTALS OF SPANISH 1 Credit

Prerequisite: 65 in Introduction to Spanish

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

SPANISH II H

possible.

Prerequisite: 80 Spanish I H, 90 Fundamentals of Spanish with teacher endorsement

This two-semester course reinforces and builds upon previously learned skills using pair and group activities, projects and presentations. Students will practice new vocabulary and language structures used in many everyday situations. Grammar structures will be presented with greater emphasis on reading skills and quick recognition of meanings and cognates. Cultural aspects of the Spanish-speaking world are highlighted through student reports. Students are expected to maintain an accelerated pace. Spanish is used as the medium of instruction and communication as much as possible.

INTERMEDIATE SPANISH

1 Credit

1 Credit

Prerequisite: 65 in Fundamentals of Spanish Continuing and reinforcing the work done in Fundamentals of Spanish, students continue developing the four language skills. More advanced grammatical structures are introduced and basic structures are reinforced. All aspects of the course, including projects, are presented in a cultural context which enhances the students' understanding of the geography, history and rich diversity in the Spanish-speaking world. Spanish is used as the medium of instruction as much as

0332 SPANISH III H

Prerequisite: 80 in Spanish II H or 90 in Advanced Intermediate Spanish 1 Credit

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

0339 ADVANCED INTERMEDIATE SPANISH III H

Prerequisite: 70 in Intermediate Spanish or completion of Spanish II H

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

0341 SPANISH IV H Prerequisite: 80 in Spanish III H

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

0350 SPANISH V

Prerequisite: 80 in Advanced Intermediate Spanish or 70 in Spanish III H or Spanish IV CP

This two-semester course is an opportunity for advanced students to continue the study of Spanish with an emphasis on extensive daily use of the spoken language. Comparative studies of Spanish films paired with specific Spanish literary works will give the students the opportunity to use their skills in listening, speaking, reading and writing. In addition to emphasizing the shift from being conversational to achieving fluency in the spoken language, students will continue to reinforce grammatical structures previously learned as they encounter new concepts throughout the course work.

0314 FRENCH I H

Students are introduced to the skills of understanding basic spoken French, expressing their own ideas related to the topics studied in understandable French, and to reading and writing about essential concepts correctly. Vocabulary is student-centered, dealing with friends, family, shopping, eating, and daily activities. In addition to learning grammar and vocabulary, the students use supplementary materials which introduce them to the culture and civilization of France and the countries where French is spoken. A major project focuses on the history of Paris.

0324 FRENCH II H

Prerequisite: 65 in French I H or qualifying score on placement test

Students continue their study of French culture and language, adding mastery of past tenses and more advanced grammar concepts. Much additional vocabulary on many topics is added to the students' repertoire, and there is a continued emphasis on accurate pronunciation to reinforce their progress towards fluency in French. During the second semester students will research, prepare and serve a French meal to their families as well as engage in informal conversations using the French language.

0334 FRENCH III H Prerequisite: 80 in French II H

Students are challenged to grow in listening comprehension and communicative skills as their confidence and fluency in French increases. Longer readings, frequent short writing assignments, and daily use of the language will be standard. During the second semester, French becomes the main medium of communication for most purposes. Students will be introduced to the remaining non-literary indicative tenses and to the subjunctive mood. Students will learn how to respond effectively in French in many situations and predicaments. The text will be supplemented with a variety of authentic French materials, including news articles, literature and film.

1 Credit

1 Credit

1 Credit

1 Credit

1 Credit

0365 CHINESE I CP (Virtual)

Students use compelling stories, games, videos, and multimedia experiences in this introduction to Chinese. They learn the elegant simplicity of Chinese grammar and the subtleties of Chinese pronunciation through entertaining lessons that give a base of conversational ability and listening comprehension. Students build a foundation for reading and writing in the Chinese language through an adaptive technology that lets them choose an approach that works best for them. Engaging graphics, video, and games keep students interested, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress.

0363 CHINESE II H (Virtual) Prerequisite 75 in Chinese I CP

This Mandarin Chinese II course builds on the basics covered in level one and continues to develop skills in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Some of the topics covered include: counting, sports, weather, seasons, feelings and activities. Each week consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, and speaking and writing activities. The online, self-paced course consists of 180 lesson days divided in two semesters including a midterm and final each semester. Student progress is assessed in proficiency through quizzes, tests, and speaking/writing submissions. The virtual class represents an ideal blend of language learning pedagogy and online learning for the self-motivated, independent learner.

0366 CHINESE III H (Virtual) Prerequisite 75 in Chinese II H

Students continue to expand their abilities in various aspects of Chinese Mandarin. Students continue to build and expand their knowledge of vocabulary, character recognition, sentence patterns, and grammar points in communicative contexts. They also enhance their Chinese Mandarin listening and speaking skills, such as pronunciation and intonation. Students learn more in-depth Chinese reading and writing strategies and skills. The Chinese III course greatly improves students reading abilities, and students are able to write in Chinese in various formats such as journal, letter, invitation, and essay. The course also enriches and fortifies the student's knowledge and skills in writing simplified Chinese characters. In this course, students learn more essential knowledge of Chinese culture, including the origins, histories, anecdotes, and etiquettes for various cultural settings, events, and occasions. Students also learn to compare and contrast the Chinese culture with their own cultures in many different aspects.

0356 ITALIAN I CP (Virtual)

Students are introduced to the Italian language using an interactive online program. Students learn how to greet someone, introduce themselves and their family, express opinions, describe objects, places or situations, make a phone call, go shopping and much more! This course offers a personalized experience enabling students to progress through a structured sequence at their own pace. The virtual class represents an ideal blend of language learning pedagogy and online learning for the self-motivated, independent learner.

Prerequisite: 75 in Italian I

0357 ITALIAN II CP (Virtual)

Students review, practice and reinforce how to express opinions, describe objects, places or situations, make a phone call, go shopping, use the simple past, sing in Italian, watch Italian videos, and much more! Upon completion of the course students should be able to understand phrases and the highest frequency vocabulary related to areas of most immediate personal relevance, communicate in simple and routine tasks requiring a direct exchange of information on familiar topics and activities, use a series of phrases and sentences to describe family and other people, location and living conditions, educational background and jobs. This course offers a personalized experience enabling students to progress through a structured sequence at their own pace. The virtual class represents an ideal blend of language learning pedagogy and online learning for the self-motivated, independent learner.

Prerequisite: 75 in Italian II H 0358 ITALIAN III CP (Virtual)

Student immerse their knowledge of the Italian culture and become familiar with Italian topics such as opera, art, cinema and others. They learn how to better express their opinions, understand more complex sentences, make comparisons, narrate a fact with different kinds of past, use the future, use pronouns, relate situations, read Italian newspapers, watch Italian videos and visit some recommended Italian websites. Upon successful completion of this course students should be able to understand the main points of clear standard speech regularly encountered in work, school, leisure, etc. and be able to deal with most situations likely to arise whilst traveling in an area where Italian is spoken. This interactive immersion course is presented in Italian. The virtual class is self-paced and recommended for the self-motivated, independent learner.

1 Credit

1 Credit

1 Credit

Credit

1 Credit

LATIN I H (Virtual)

Students begin their introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. The online, self-paced course consists of 180 lesson days divided in two semesters including a midterm and final each semester. Student progress is assessed in proficiency through quizzes, tests, and speaking/writing submissions. Each week consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments. The virtual class represents an ideal blend of language learning pedagogy and online learning for the self-motivated, independent learner.

LATIN II H (Virtual) Prerequisite 80 in Latin I H

The Latin II H course continues the study of an ancient language in a modern way. Weekly lessons stress the fundamental building blocks of foreign language study: listening comprehension, speaking, reading, and writing. The online, self-paced course consists of 180 lesson days divided in two semesters including a midterm and final each semester. Student progress is assessed in proficiency through quizzes, tests, and speaking/writing submissions. Each week consists of a new vocabulary theme and grammar concept, a notable ancient myth in Latin, interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments. The virtual class represents an ideal blend of language learning pedagogy and online learning for the self-motivated, independent learner.

LATIN III H (Virtual) Prerequisite 80 in Latin II H

Students expand their knowledge and appreciation of Latin to the next level. Students read some of the best Latin prose and poetry ever written or spoken including the timeless words of Caesar, Cicero, Catullus, and other great Roman poets, storytellers and orators. The purpose of this course is to strengthen students' Latin vocabulary as well as their appreciation for well-crafted writing. Students go directly to the source and recognize why Latin and those who spoke it are still relevant today. This online course is self-paced and recommended for the self-motivated, independent learner.

GERMAN I CP (Virtual)

This course provides students with an introduction to the German language. Students begin their language study and development with the four key areas of foreign language study: listening, writing, reading, and speaking through a variety of content related activities. The themes covered throughout the course are: introductions and greetings, friends and family, school and daily routines, and social activities. Students will learn basic grammar concepts and vocabulary in order to communicate with others in a variety of real world situations in the German language. Culture is incorporated throughout each unit. The online, self-paced course is divided in two semesters including a midterm and final exam each semester. Student progress is assessed in proficiency through quizzes, tests, and speaking/writing submissions. The virtual class represents an ideal blend of language learning pedagogy and online learning for the self-motivated, independent learner.

GERMAN II H (Virtual) Prerequisite 75 in German I CP

In this continuing introduction to German, students deepen their focus on four key skills in foreign language acquisition: listening, writing, reading, and speaking. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context, and then reproducing new vocabulary items in functional real-life oral expressions. This course employs direct-instruction approaches, including application of the target language through activities. Each unit includes a discussion topic which provides an opportunity for discourse on specific topics in German. The online, self-paced course is divided in two semesters including a midterm and final exam each semester. Student progress is assessed in proficiency through quizzes, tests, and speaking/writing submissions. The virtual class represents an ideal blend of language learning pedagogy and online learning for the self-motivated, independent learner.

GERMAN III H (Virtual) Prerequisite 75 in German II H

This course builds on the basics covered in levels one and two. The four language skills: listening, writing, reading, writing will be further developed and additional grammatical structures and vocabulary introduced. Unit themes in this course include home and health, life and world, everyday things, places and events, tourism and recreation, and professions and hobbies. The virtual class is self-paced ideally suited for the self-motivated, independent learner.

1 Credit

1 Credit

1 Credit

1 Credit

1 Credit

1 Credit

Religious Studies Department

Freshman Year Religion I: Christ Revealed in the Old Testament

Sophomore Year Religion II:

A Study of the New Testament and Church

Junior Year Religion III:

Sacraments and Christian Morality

Senior Year Christian

Lifestyles/World Religions CP

Christian Lifestyles/Social Teachings of the Church CP

Christian Lifestyles /Mariology H

Christian Lifestyles/ Catholicism and Culture H

Senior Elective: Philosophy (in addition to required Senior Course Options)

011 RELIGION I: Christ Revealed in the Hebrew Scriptures: A Study of the Old Testament 1 Credit

This two-semester course illustrates how the Old Testament contains over a thousand years of God's self-revelation to His chosen people of Israel. Starting from the view of religion as relationship, this course will explore the nature of revelation as recorded in Sacred Scripture. We will examine how the Scriptures were formed over many centuries and the role of the Church in defining the canon. Students learn to read Sacred Scripture as literary genre and historical context while relying on the Magisterium of the Church for interpretation. Students will immerse themselves in the stories of the Bible from Creation through the end of the Babylonian Exile and examine the role of Old Testament heroes as types for Christ, the Biblical foreshadowing of the sacraments, the structures of the Church, and the role of both personal and communal prayer in deepening our relationship with God.

021 RELIGION II: A Study of the New Testament and Church

Jesus asks His disciples "Who do you say that I am?" The way that a person answers this question has had life changing implications. Grounded in an understanding of Revelation, students begin to seek answers to Jesus' question in the New Testament. After a brief examination of the historical context of first century Palestine and a review of the canon of the New Testament, students explore the Christology of the Infancy Narratives, the Kingdom of God as revealed in Jesus' actions, His parables, death and resurrection.

The course will also investigate Christ's mission through the Church, the Church as the People of God and the Mystical Body of Christ along with the implications of those models on the life of the individual. The Nicene Creed, the historical development of the Church's hierarchy, the universal call to holiness, evangelical counsels, the Lay Apostolate, common priesthood, communion of saints and the study of the role of Mary in the life of the Church culminates the purpose of this course.

031 RELIGION III: Sacraments and Christian Morality 1 Credit

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

Students will study the fundamental principles for living a moral life based on the Roman Catholic belief that all persons possess a sense of dignity and are created in the image and likeness of God. Grounded in prayer and study of the Church's moral teachings, students will deepen their process of moral development. In addition, students will be offered a broader insight into their role in the life of the Church, especially in Sacrament of Reconciliation, as part of their ongoing moral development.

042/044 RELIGION IV: Christian Lifestyles (.5) and Social Teachings of the Church (.5) 1 Credit

This two-semester course will discuss how to live like Jesus Christ in order to achieve happiness with God. Students will explore the importance of choosing a vocation not just accepting an expected vocation. The individual vocations (married life, single life, consecrated life and priesthood) will be discussed from the point of view of creating a Christian lifestyle, the demands, responsibilities, strengths and weaknesses. During the second semester, the students will concern themselves with the Teaching of the Catholic Church about Social Issues as it has developed in the last 150 years. They will learn about the documents of the Popes and Bishops that have dealt with modern issues, such as, working conditions, family life issues, health issues, and the issues dealing with war, justice and personal freedom.

042/043 RELIGION IV: Christian Lifestyles (.5) and World Religions (.5)

This two-semester course will discuss how to live like Jesus Christ in order to achieve happiness with God. Students will explore the importance of choosing a vocation not just accepting an expected vocation. The individual vocations (married life, single life, consecrated life and priesthood) will be discussed from the point of view of creating a Christian lifestyle. Each vocation will be considered as to its demands and responsibilities, strengths and weaknesses. Throughout history people have sought to understand the meaning of their existence and their place in the world. The result of this search for truth has been the growth of the world's great religious traditions. This world religions course will examine many of these traditions including Daoism, Confucianism, Hinduism, Buddhism, Judaism and Islam. This course will look at the history, major beliefs and practices of these traditions and consider how they relate to our own Christian tradition. How do these diverse religions experience God? How do they confront death and the problem of evil? What do they have in common? How are they different? Along the way we will explore the concepts of sacred time and sacred spaces; consider the roles of prophets, sages, saints and shamans and examine the function of myth and scripture. Students will have a working knowledge of the role religion plays in the life of the individual and the community as well as a deeper appreciation for the power of their own faith.

0013/0014 RELIGION IV: Christian Lifestyles H(.5) Mariology H (.5)

Prerequisite : 92 in Junior Year Religion

This two-semester course will discuss how to live like Jesus Christ in order to achieve happiness with God. Students will explore the importance of choosing a vocation not just accepting an expected vocation. The individual vocations (married life, single life, consecrated life and priesthood) will be discussed from the point of view of creating a Christian lifestyle. Roman Catholic Mariology deals with the life and appreciation of the Virgin Mary, as the New Eve, Mother of Jesus, God and all humanity, as well as her veneration throughout the ages in theology, prayer and apparitions. Essays, reflection papers, group projects and a pilgrimage to a local Marian Shrine will be part of this Honors course. The Catholicism and Culture course will use current events, art and film as a medium for reflection upon the meaning and truth of the Christian faith. The course will examine how social media plays a role in understanding our culture. Scripture, Catechism of the Catholic Church, the lives of the saints and current news articles will serve as supplementary class material. Students will be expected to participate in class discussions, oral presentations, written papers and group projects. The course will use a broad section of various methods to open creative windows for understanding and communicating the Christian faith. The tools developed in this course will serve as a lifetime of evangelization.

0013/0014 RELIGION IV: Christian Lifestyle H (.5)/Catholicism and Culture H (.5)

Prerequisite: 92 in Junior Year Religion

This two-semester course will discuss how to live like Jesus Christ in order to achieve happiness with God. Students will explore the importance of choosing a vocation not just accepting an expected vocation. The individual vocations (married life, single life, consecrated life and priesthood) will be discussed from the point of view of creating a Christian lifestyle. Current events, art, and films will be used for reflection upon the meaning and truth of Christian faith. The course will also examine how social media plays a role in understanding our culture. Scripture, Catechism of the Catholic Church, the lives of the saints, and current news articles will serve as supplementary class material. Students will be expected to participate in class discussions, oral presentations, written papers, and group projects. The course will use a broad cross section of various methods to open creative windows for understanding and communicating the Christian faith. The tools developed in this course will serve as a lifetime of evangelization.

045 PHILOSOPHY CP (Elective in Addition to Senior Requirement)

This two-semester course is a senior elective which will introduce the student to the questions that Philosophy attempts to answer. The approach will be to investigate the philosophical systems of Plato and Aristotle, St. Augustine and St. Thomas Aquinas and other philosophers, like Descartes, Kant and other modern philosophers on matters. Some of the questions will be: What is essence and existence? What evidence is there for the existence of God? How can the same thing be one and yet many? What is metaphysics, ethics, knowledge, the nature of the physical world and its relation to a non-physical existence? What is an ideal starting point and a realistic starting point? The student will be expected to demonstrate a specific understanding of each of these philosophers, and questions.

1 Credit

1 Credit

1 Credit

Career and Technology Department

Freshman Year: Computer Applications CP Computer Science Principles CP Graphic Design I CP IT Essentials CP Introduction to Engineering Design H

Sophomore Year:

Computer Applications CP Computer Science Principles CP Introduction to Networks IT Essentials CP Graphic Design I CP Graphic Design II CP Introduction to Engineering Design H Principles of Engineering H

Junior & Senior Electives

AP Computer Science A Digital School Productions CP Introduction to Networking Graphic Design I CP Graphic Design II CP Graphic Design III UCONN IT Essentials CP Introduction to Engineering Design H Principles of Engineering H Engineering III (Offered in 2020-21) Principles of Accounting H

Required Senior Seminar Course: Personal Finance CP

0600 COMPUTER SCIENCE PRINCIPLES CP 1 Credit

Prerequisite 79.5 or Higher in Algebra I CP or Geometry 1 CP This course serves as an introduction to computational thinking using a problem-centered approach. Specific topics covered include: expression of algorithms and coding using a programming language (Python); functional and imperative programming techniques; control structures; problem solving using recursion; basic searching and sorting; elementary data structures such as lists, trees, and graphs; and correctness, testing and debugging. Assignments (both in class and for homework) requiring a pseudo code solution and an implementation are an integral part of the course. An end-of-term project is also required.

0603 COMPUTER APPLICATIONS CP Freshman/Sophomore Elective 1 Credit This two semester course is a project based introduction to the basics of computing using Microsoft Word, Excel, and PowerPoint. Students will be able to navigate and take advantage of all the aspects of Microsoft Office programs to be used to create papers, documents, and projects throughout their education. The course will progress from introductory work on Microsoft Office to culminating projects in which students will develop their own personal website incorporating projects being made on Microsoft Word, Excel, and PowerPoint.

0601 COMPUTER SCIENCE A AP Junior/Senior Elective 1 Credit **Prerequisite: 79.5 Average in Geometry Honors (or higher honors Math Class)** AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes object-oriented and imperative problem solving and design using Java language. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities. Students are required to take the course exam as well as AP exam.

0610 IT ESSENTIALS CP

IT Essentials is a two-semester course which covers fundamental computer and career skills for entry-level IT jobs. The IT Essentials course includes hands-on labs that provide practical experience using simulation tools to help you hone your troubleshooting skills and practice what you learn. You will learn how computers and mobile devices operate, identify common security threats and vulnerabilities (such as malware, phishing, spoofing and social engineering), apply skills and procedures to install, configure, and troubleshoot computers, mobile devices, and software and develop critical thinking and problem solving skills using both real equipment and Cisco Packet Tracer, a network configuration simulation tool. Students who successfully complete the course may be eligible to attempt to attain the internationally recognized A+ professional certification exam.

0619 INTRODUCTION TO NETWORKS Pre-requisite: 89 or higher in IT Essentials

1 Credit

1 Credit

Begin preparing for a networking career with this introduction to how networks operate, including learning the architecture, structure and functions needed to support the operations and priorities of Fortune 500 companies and small innovative retailers. Students will configure a simple LAN/other network.

0612 GRAPHIC DESIGN I CP

This course will introduce students to the broad field of graphic arts. Through hands-on projects, students will learn about design fundamentals, color theory, typography, and the design process. Students will be introduced to a wide variety of technical concepts and detail related to graphic design, computer applications, digital and traditional photography, and career opportunities. Students will learn the basics of the Adobe Creative Suite to design and produce a variety of printed products and display graphics. This course also meets the Fine Arts requirement for graduation.

0613 GRAPHIC DESIGN II H Prerequisite: 88 in Graphic Design I

Graphic Design II is an extension of Graphic Design I. The students will be involved with advanced techniques in photo manipulation, page and package design, and digital printing. Students will gain significant knowledge of the different programs in the Adobe Creative Suite. This course will significantly increase understanding of design thinking and problem solving as well as visual literacy.

0614 DIGITAL MEDIA & DESIGN/UCONN **Prerequisite 90 in Graphics Design II**

This Graphics III course is an intensive experience in designing for the digital arts. Students engage in a wide range of real-world projects in order to better understand the media and methodologies that form their foundation. Creating digital work is not so much about learning software, as it is about exploring new ways to share and communicate information. It is also as much about thinking and imagination as about doing. Students need to understand the effective uses of communication media and the ways in which information can be visualized and perceived by an audience. The objective of this course is to stimulate students to critically explore, comment and be empowered to develop their own facility, perspective and interests of a rapidly growing industry. The students will design, create and produce a product for a client. UCONN course credit.

0606 DIGITAL SCHOOL PRODUCTIONS CP

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

0617/0618 BUSINESS MARKETING .5 Credit /INTRODUCTION TO BUSINESS CP

To succeed as a business professional, students need a range of specific skills and training. The marketing course covers the latest marketing strategies, theories, trends and ethical practices. Students will take part in multiple hands-on projects with a focus on innovative thinking, adaptability and clear articulation of ideas. The importance of public relations, branding, consumer behavior, advertising and retail merchandising are highlighted. The introduction to business is a broad-based course designed to give the student exploratory experiences as they relate to the world of business. Students will explore business aspects through problemsolving, role-playing, critical thinking, project development and business strategies.

0622 PRINCIPLES OF ACCOUNTING H Junior/Senior Elective

Prerequisite: 85 average in a Sophomore/Junior CP Math course or 80 average in a Sophomore/Junior Honors Math Course

This course is designed to provide students with both knowledge and skills in elementary accounting and to enable them to understand financial record keeping practices in business. This course covers two types of businesses: proprietorship and partnership. A sole proprietorship business is presented in a complete accounting cycle. Students will analyze translocation, complete journal entries, posting, worksheets, bank reconciliation, financial statements and adjusting and closing entries which will provide a foundation for all future business students. Principles of Accounting is integrated with Automated Accounting software and will provide students a competitive advantage in college business courses.

0250 PERSONAL FINANCE CP Senior Seminar Requirement

This one semester senior seminar course is based on Dave Ramsey's personal finance program and is paired with the Health and Wellness course. Understanding and managing personal finances are key to one's future financial success. This course presents essential knowledge and skills necessary to make informed decisions about real world personal financial planning and management as well occupational decisions.

1 Credit

1 Credit

23

1 Credit

.5 Credit

.5 Credit

1 Credit

1 Credit

0620 INTRODUCTION TO ENGINEERING H

1 Credit Prerequisite: 89.5 in Algebra I CP or 80 in Algebra I H

This Project Lead the Way course provides students the opportunity to dig deep into the engineering design process and apply math, science, and engineering standards to hands-on projects like designing a new toy or improving an existing project. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work. Course concepts include the design process, technical sketching and drawing, measurement and statistics, modeling skills, geometry of design, reverse engineering, documentation, advanced computer modeling, design team and design challenges.

0621 PRINCIPLES OF ENGINEERING H

Health and

Department

Wellness

Prerequisite: 79.5 in Introduction to Engineering Design H

This two-semester Project Lead the Way course introduces engineering concepts, methodologies, and the application of engineering principles. Students explore multiple engineering fields gaining a better understanding of each. The course provides students the opportunity to apply an engineering design process and develop their analytical and problem-solving skills. Using activities, projects and problems, students learn first-hand how engineers use math, science and technology in an engineering problem solving process.

0805 PHYSICAL EDUCATION Freshman and Sophomore Year

.5 Credit

Physical Education provides an array of activities with an abundance of opportunities for every student to be successful. The program provides students a release from daily stress and strain while they participate in both competitive and non-competitive events. Skills, interests and appreciation for life-long learning, activity and recreation are developed through both team and individual activities. Also stressed is that students should be totally accountable for their own actions, both in and out of the classroom.

0455 HEALTH and WELLNESS Required Senior Seminar Course

This one-semester course is paired with Personal Finance as part of the Senior Seminar. Personal Health emphasizes the importance of knowledge, attitudes, and practices relating to personal health and wellness. It is a course designed to expose students to a broad range of issues and information relating to the various aspects of personal health, which include the physical, social, emotional, intellectual, spiritual, and environmental aspects. A combination of lecture, group discussion and activities, presentations, video, nutritional and fitness projects are included.

.5 Credit

Fine Arts Department

Freshman Year:

Introduction to Art Graphic Design I Mixed Chorus Concert Band Beginning Piano Guitar Ensemble

Sophomore-Senior Year: Introduction to Art Painting and Drawing 3-D Sculpture and Design Graphic Design I Graphic Design II Graphics Design III UCONN Mixed Chorus Beginning Piano Piano II Concert Choir H Concert Band H Guitar Ensemble H Music Theory H Music Appreciation H Digital Sound Design H

SeniorElectives:

AP Studio Art Portfolio Development H

0750 INTRODUCTION TO ART CP

This course will concentrate on the basics of drawing, painting, and sculpture. Introduction to Art is a foundational-level class focusing on the process of creating artwork in a variety of media such as pencil, paint, polymer clay, wire, and more. Concepts such as composition and perspective, as well as the Elements of Art and the Principles of Design will be addressed. Students will be required to think about their own creative process and utilize critical thinking skills in order to improve their artwork. They will be introduced to the vocabulary of art and will be asked to use such vocabulary in class critiques.

0752 3-D SCULPTURE AND DESIGN CP (Offered in Even Years) 1 Credit Prerequisite: Introduction to Art

Students will focus on creating artwork that goes into the three-dimensional plane (3-D). This course will expand on the sculpture techniques learned in the Introduction to Art course. The class will also gain an understanding of how the 2-D concepts and techniques learned in Introduction to Art can help bolster their three-dimensional work. The importance of working from good references (both picture and life) will be stressed as a means to build up the student's visual library. Such a library will enhance their skill of interpreting their ideas in 3-D space. Students will work in both additive and subtractive sculpture methods, and work in a variety of materials such as polymer clay, oil-based clay, wood, paper, and metal.

0751 DRAWING AND PAINTING CP (Offered in Odd Years) 1 Credit

Students will focus on creating artwork on the two-dimensional (2-D) plane. The course will reinforce and go beyond the concepts that were covered in Introduction to Art. The importance of working from good references (both picture and life) will be stressed as a means to build up the student's visual library. Such a library will enhance their skill of representing the three-dimensional world on a 2-D space. The course will delve deeply into the issues of value, color, and composition. Students will create many pieces, including landscapes, portraits, still life and abstract works of art.

PORTFOLIO DEVELOPMENT/INDIVIDUAL STUDY H

****Prerequisite: Drawing & Painting, 3-D Sculpture , or Graphic Design and approval of instructor

Seniors only

This course is designed for students who want to continue their art education. The student will create a variety of highly refined artwork for their college application portfolio. Students in this course will have many options when it comes to creating their artwork in terms of subject matter and media. The importance of the artistic process and problem solving will be the focus of this course. Becoming self-sufficient in the area of critique will help students identify and fix their artwork's deficiencies. Learning how to work through mistakes and utilize critical thinking to solve such events will help the student evolve as an artist.

AP STUDIO ART: DRAWING (Seniors only)

Prerequisite: Drawing & Painting, 3-D Sculpture, or Graphic Design and approval of instructor

This is an intensive course that is designed for students serious about continuing their art education through college. The student will create a minimum of 24 highly refined works of art for their AP Portfolio. Students in this course will focus on three areas to fill out their portfolio: quality, a concentration and breadth. Students will be expected to pursue mastery in concept, composition and execution of drawing. The importance of the artistic process, creative integrity, and problem solving will be a focus of this course.

0612 GRAPHIC DESIGN I CP

1 Credit

This course will introduce students to the broad field of graphic arts. Through hands-on projects, students will learn about design fundamentals, color theory, typography, and the design process. Students will be introduced to a wide variety of technical concepts and detail related to graphic design computer applications, digital and traditional photography, and core process.

Enrollment in Concert Band is open to any student who has at least one year of experience/proficiency on a woodwind, brass or percussion instrument. String instruments are also accepted, although the repertoire is based on concert band and jazz ensemble pieces rather than orchestral pieces. A wide variety of concert band and jazz ensemble literature will be studied, with increasing difficulty in the music throughout the year, and the repertoire will vary from year to year. Emphasis is placed on development of technique and interpretation, as individual instrumentalists and as an ensemble group, performance skills, and developing an overall mature musical expression. Music skills such as scale, sight reading and rhythm exercises, will be emphasized, along with music theory including music notation and key signature recognition. Attendance at all performances is mandatory.

0776 BEGINNING PIANO CP

Students of all musical backgrounds are welcome in Beginning Piano. Although the course is structured so that students with no prior background in music may learn to play the piano, experienced pianists are also welcome. The course will cover reading music, playing melodies with accompaniment, and various exercises to strengthen technical ability. The emphasis in the course is on solo playing. Owning a piano at home is helpful, but not necessary.

0778 PIANO II Prerequisite: Beginning Piano or by acceptance of instructor

Piano II is for students looking to progress further in their piano playing. It is open to students who have completed Beginning Piano as well as those who pass an audition with the instructor. The course builds on the foundations of note-reading and piano technique and will also incorporate new topics such as music theory and music history. Students will continue to develop their musical abilities in a class setting with a focus on solo playing. The course covers a wide range of musical styles including pop, classical, jazz and blues. Although some method book material is required, students will be expected to learn piano literature. Students are not required to own a piano at home.

0771 GUITAR ENSEMBLE CP

Enrollment in Guitar Ensemble is open to any student who plays guitar. Students should have their own acoustic guitar*. Guitar ensemble literature in varied styles (folk, rock, classical, jazz) will be studied and will change from year to year. Emphasis is placed on performance skills such as playing with a group and not just as a solo instrument, guitar picking and strumming techniques, and basic music theory involved in ensemble and solo playing. Grading includes performance evaluations and written examinations and guizzes, along with written exercises as homework. Attendance at all performances is mandatory.

0748 MUSIC APPRECIATION CP

This course will introduce students to the history, basic theory, and genres of music. This course will explore the history of music, from the surviving examples of rudimentary musical forms to contemporary pieces from around the world. The first half of the year will cover early musical forms, classical music and American jazz. The second part of the year presents modern traditions, including gospel, folk, soul, blues, Latin rhythms, rock and roll and hip hop. This course will explore the relationship between music and social movements and will reveal how the emergent global society and the prominence of the Internet are making musical forms more accessible worldwide.

0749 MIXED CHORUS CP

This course is for beginner and advanced students. Mixed Chorus is a choral ensemble that will perform classic and contemporary music of medium difficulty that challenges their musical abilities. Some areas of study are basic music theory, voice production, solo and ensemble singing, sight reading and artistic interpretation. A variety of music literature is studied, including sacred and secular compositions from masterworks to contemporary. Chorus students will perform together at various concerts and performances throughout the year. Participation at all performances is required.

1 Credit

26

1 Credit

1 Credit

1 Credit

1 Credit

0744 DIGITAL SOUND DESIGN H

This class is designed for students interested in creating music through technology. Basic music theory is incorporated so that students with no prior knowledge of music can learn how songs are written. The class will analyze the music of current, popular artists in order to learn the fundamentals of music. Although students will mostly work in *Garageband*, students fluent in other digital audio workstations such as Soundation or FL Studio are welcome. Students will acquire basic piano skills as well as practice in reading music notation and ear training. The final project is an EP/mixtape of songs written during the course.

0782 MUSIC THEORY H Prerequisite: B or higher in music elective

Music Theory is designed for motivated students who have a deep curiosity about the inner workings of music. Music from all periods and styles will be studied and analyzed. The course places an emphasis on note reading in treble and bass clefs. First students will discover the fundamental principles behind music and will learn about tonality through ear training practice and sight singing. Finally, students will use their knowledge of music theory to write songs and other musical compositions. By the end of the course, students will have a portfolio of music that they have written. Students may choose to record their final compositions in the Recording Studio.

0763 CONCERT CHOIR H Prerequisite Audition 92 or higher Mixed or Concert Choir 1 Credit

Concert choir is the serious study of artistic music for the select chorus musician. This is an auditioned group of uppe relassmen who demonstrate advanced skills in vocal production and score reading. They will study and perform advanced repertoire focusing on sacred secular music ranging from four to eight parts.

There will be an emphasis on *a cappella* singing. In addition, advanced music theory and music history will be studied.

Choir members are REQUIRED to participate in all concerts and out of school performances.

0745 CONCERT BAND H Prerequisite 92 or higher in Concert Band/instructor endorsement 1 Credit Advance musicians who are enrolled in Concert Band will audition for this course. Honors Concert Band members are leaders of the school music department in areas of performing, coursework and class conduct. Requirements for the honors level include higher level assigned parts, community service through performance, regional auditions and challenging written assessments including composition and history of music. Student will mentor incoming freshman after school.

0747 GUITAR ENSEMBLE H Prerequisite 92 or higher in a music elective/instructor endorsement 1 Credit This course is open to advanced guitar players, drummers, pianists, vocalists and other instrumentalists. Students plan, rehearse and perform music while also learning the fundamentals of musical theory, composition and history. Repertoire is centered around modern music and musical styles. Students will form bands that play regularly around the school and surrounding community.

1 Credit

1 Credit

 $\mathbf{27}$

ADVANCED PLACMENT GUIDE

Why Take an AP Course?

AP classes are rigorous and demanding and offer a great deal of intellectual challenge. They give you the opportunity to dig deeper into subjects that interest you. The dialog and debate in AP classes contribute to the knowledge that everyone shares AP classes develop more rigorous study habits, develop your time management skills, sharpen your writing and advanced research skills, teach you how to think critically and use your problem-solving abilities, as well as work collaboratively in groups. You will learn how to navigate the academic expectations you will encounter in your college courses AP classes can help you transform a subject you are enthusiastic about into a fullfilling future. Each AP course connects directly to a wide variety of college majors and careers. Use the Collegeboard tool at <u>apstudent.collegeboard.org/exploreap/ap-and-your-future</u> and see what AP courses prepare you for certain career paths. If you do well in an AP class, it is a signal to admission counselors that you are ready for the pressures of college study and that you were up for the challenge of taking the most rigorous classes your school has to offer

Many colleges grant credit or accelerated placement based on your performance on AP exams which are scored 1-5. Many colleges accept scores that are 3 or above, while more selective schools look for 4s or 5s. Each institution has their own AP credit policy and those policies can be found by searching the Collegeboard's AP Credit Policy database. With these additional credits, it can be easier to fulfill some of your general education course requirements, pursue a double major or a minor or take elective courses that interest you.

Understand the Expectations - AP courses more closely resemble college classes than they do high school offerings. It is important that you are prepared to work from the first day of class. While other courses may ease into their schedules, AP classes must address a lengthy curriculum in a compressed period of time. Prepare mentally for this reality.

Is the AP Experience Right for You? - Do you have the pre-requisite grade required for the AP class and did you easily achieve that grade or was it a continual struggle? **Many** AP classes require heavy amounts of reading and writing. Are you prepared for long, difficult reading assignments, multiple essays, and in-depth research papers? Consider the AP classes that connect with your interests and passions.

Think about the impact on your GPA - will my performance in the class lower my GPA? College admission officers want to see students taking challenging courses, but they also want to see strong grades. Sometimes it is wiser to stay with an honors level course.

Think about your schedule - If you have multiple obligations like sports, leadership positions and many extracurricular commitments, will you find it difficult to meet the challenging obligations of an AP class? Will your schedule accommodate the rigorous amount of time and dedication needed to take an AP class?

Talk with your teacher, counselor & your parents - seek their advice about whether an AP course is the right choice for you.

How many classes should I take? - There is no "magic number"! It depends on the individual student. It is important not to overload yourself causing enormous anxiety or stress. It is better to focus on those AP classes related to your strongest skills and interests. More is not better. It is also important to strike a balance between schoolwork and all the other experiences and opportunities in high school. And, remember, that every college/university has different expectations with regard to what and how many You should take. Many colleges and universities are looking for academic rigor but they are also looking for leadership skills, community service and work experience.

VIRTUAL COURSES

Immaculate students have the opportunity to participate in online courses not offered at I.H.S. through Virtual High School (VHS). Courses are open to students who opt to enroll in a virtual world language program and to seniors who have completed Immaculate High's program and want to take advanced classes that are not available. Teacher and administration endorsement required for senior courses.

Prerequisites

The ability to learn independently and to make and keep commitments and submit assignments on time are essential to the success of a VHS student. Students enrolled in an online course must demonstrate strong time management skills, disciplined work habits, and good problem-solving skills.

Requirements

- Each course offered through VHS has its own set of requirements, learning objectives and expectations.
- Each student is required to comply with the individual VHS teacher's expectations. The VHS teacher is an

online teacher employed by VHS.

• Students selected for this program will participate in an online orientation in order to become familiar

with the VHS learning environment.

• Each participant will be scheduled to spend the equivalent of a full class period each day in the Learning

Commons during school hours to work on his/her VHS course.

- It is understood that students will also need to complete tests, quizzes, homework, outside reading and projects assigned by the VHS teacher.
- Students must be willing to spend eight (8) to ten (10) hours per week on homework and independent assignments in a VHS course.
- Students are required to secure access to an online computer outside the scheduled class time (either at home or at school) in order to complete assignments and projects.
- Students who enroll in an AP course through VHS must follow the AP policies established by I.H.S. and VHS and are required to take the AP examination in May.
- All assignments are completed online.

COURSE REFERENCE PATHS

Business

0618 Introduction to Business 0622 Principles of Accounting H 0618 Introduction to Business 0617 Business Marketing H 0576 Principles of Economics H

Business and Engineering

0620 Introduction to Engineering CP 0621 Principles of Engineering H 0623 Engineering III (H) Math and Physics H and AP courses

Healthcare and Biosciences

0573 Psychology AP 0401 Nursing Assistance Internship (Certification Program) 0403 Advanced Healthcare and Biosciences H 0404 Anatomy and Physiology H 0424 Principles of Bio Medical Science

Political Science and Criminal Justice

0407 Forensic Science 0576 Principles of Economics H 0562 American Government and Politics AP 0554 Contemporary US Issues 0533 U.S. History AP/UCONN 0513 Criminal Justice 0508 Trial Law H 0507 International Relations H

Business Communications and Design

0612 Graphic Design I 0616 Graphic Design II H 0614 Digital Media Design UCONN 0606 Digital Productions 0780 Art Portfolio 0781 Studio Art

Computer Sciences and Technology

0603 Computer Applications 0619 Introduction to Networks 0610 IT Essentials 0601 Computer Science AP

Music Concentration

0782 Music Theory 0745 Concert Band H 0763 Concert Choir H 0748 Music Appreciation 0747 Modern Band H 0744 Digital Sound Design

Science Concentration

Required Courses Plus: 0444 Physics AP Part I 0445 Physics AP Part II 0453 Biology AP 0463 Chemistry AP Math and Physics H and AP courses