

2026 - 2027



Program of Study



Immaculate High School

Mission Statement

In the Roman Catholic tradition, Immaculate High School fosters the development of the whole student by nurturing individual moral, intellectual, physical, and social growth through an academically rigorous college preparatory curriculum that encourages respect, responsibility, reverence, creativity and leadership.

Requirements for Immaculate High School Diploma

Class of 2026 and Beyond

Students are required to earn a minimum of 25 credits to graduate from Immaculate High School. The charts below reflect the minimum core course requirements. Please consult with your school counselor for the recommended distribution of courses and credits most suited to your educational and career goals.

Content Area (Mandated Course)	Minimum Credits to Graduate Immaculate High School	Suggested Credits to Attend Competitive Colleges
Theology	4	4
English	4	4
Mathematics	4	4
Science (3 Lab Sciences including Biology)	3	3-4
Social Studies (Government and US History)	3	3-4
World Language (2 Consecutive years in the same language)	2	3-4
Fine Arts	1	1-2
Physical Education (Starting with the Class of 2030: Participation on a school-sponsored athletic team for at least one full season satisfies the requirement of one physical education credit for graduation.)	1	1
Career & Technology	1	1-2
Senior Seminar (Health & Personal Finance)	1	1
Community Service (.25 credit each year)	1	1
Total Credits	25	26-31

Suggested Credits Per Year			
Freshman *Maximum*	Sophomore *Maximum*	Junior *Maximum*	Senior *Maximum*
7.25	7.25	6.25	6.25

How can I change levels from CP to Honors, or Honors to AP?

- Students must earn a final grade of **93** in College Prep to be considered for the Honors pathway, **OR** an **87** in Honors to be considered for the Advanced Placement pathway.
- Students must earn a final grade of **93** in College Prep, **AND** have the approval of the Academic Review Committee to be considered for Advanced Placement courses.
- Students must earn a final grade of **83** in Honors or AP courses to remain on the respective pathway.
- Teacher recommendations are also provided to students in addition to their academic eligibility to ensure the best placement for every learner.

COURSE DESCRIPTIONS AND LEVELS

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 in June on a date specified by the Counseling Department.

The following are accepted reasons for schedule change consideration after the specified June deadline:

- Successful completion of an approved summer school course
- Discovery of a clerical error
- A course has been canceled due to insufficient enrollment
- To fulfill a college application requirement

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. Teacher recommendations are also provided by most content areas to assist students and families with placement of courses each year.

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, plus organizational and study skills.

Honors College Preparatory Courses

The rigor of a regular college preparatory course is intensified and extended by demanding that a student be more independent in a classroom setting that is faster paced in terms of curricula and responsibilities. Students will plan to spend more time completing additional writing assignments, homework and classwork. The GPA weight per course is +0.3. A teacher recommendation is valuable when moving up to Honors courses to help clearly determine and examine a student's success in elevated courses.

AP and 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.

**All AP and college courses require an exam fee*

**All students and a parent are required to sign the AP contract to enroll in an AP course*

Student Ranking

Immaculate High School adheres 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. A student must be enrolled at Immaculate High School for six consecutive semesters to qualify for the top ten ranking in their graduating year. It is at the discretion of the school administration to determine the process of a top ten graduation speaker.

VIRTUAL COURSE OVERVIEW

Immaculate students have the opportunity to participate in online courses not offered at Immaculate High School through Virtual High School (VHS). Courses are open to students who have completed our program and want to take advanced classes not offered in our course curriculum. Teacher and administration endorsement is required.

Virtual Course Program

Immaculate High School offers courses in collaboration with The Virtual High School, a nonprofit organization based in Maynard, Massachusetts, which serves as a portal through which schools and teachers throughout the world offer online courses. Our partnership with VHS allows us to expand our course offerings to provide students with the most challenging and extensive academic curriculum possible taught by certified teachers in accredited schools.

Prerequisites

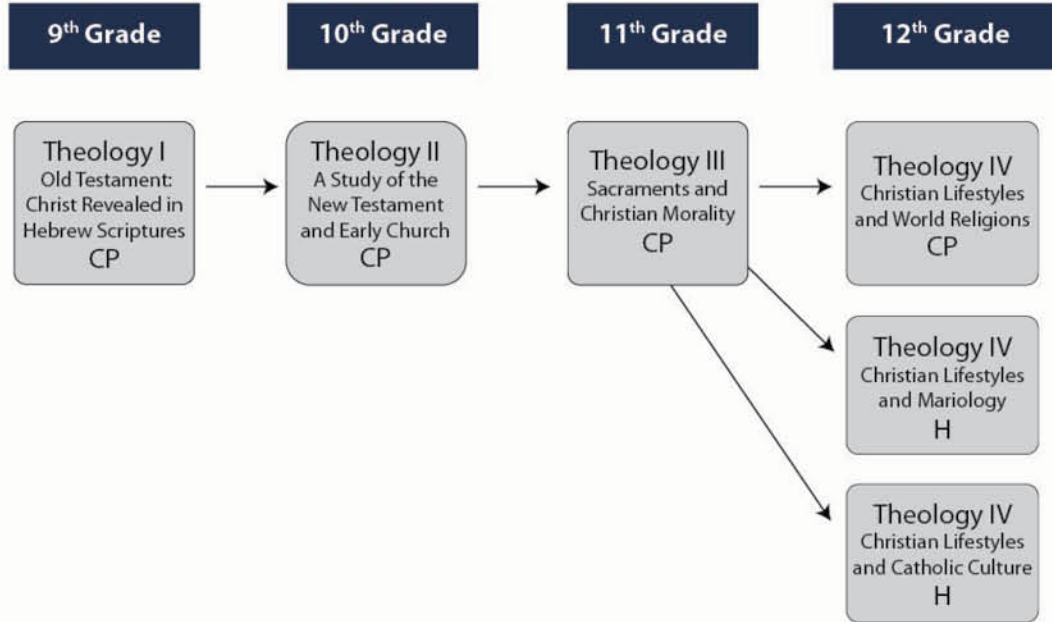
The ability to learn independently, adhere to commitments and submit assignments on time are essential to the success of a VHS student. Students enrolled in an online course must demonstrate strong time management skills, disciplined work habits, and good problem-solving skills.

Requirements

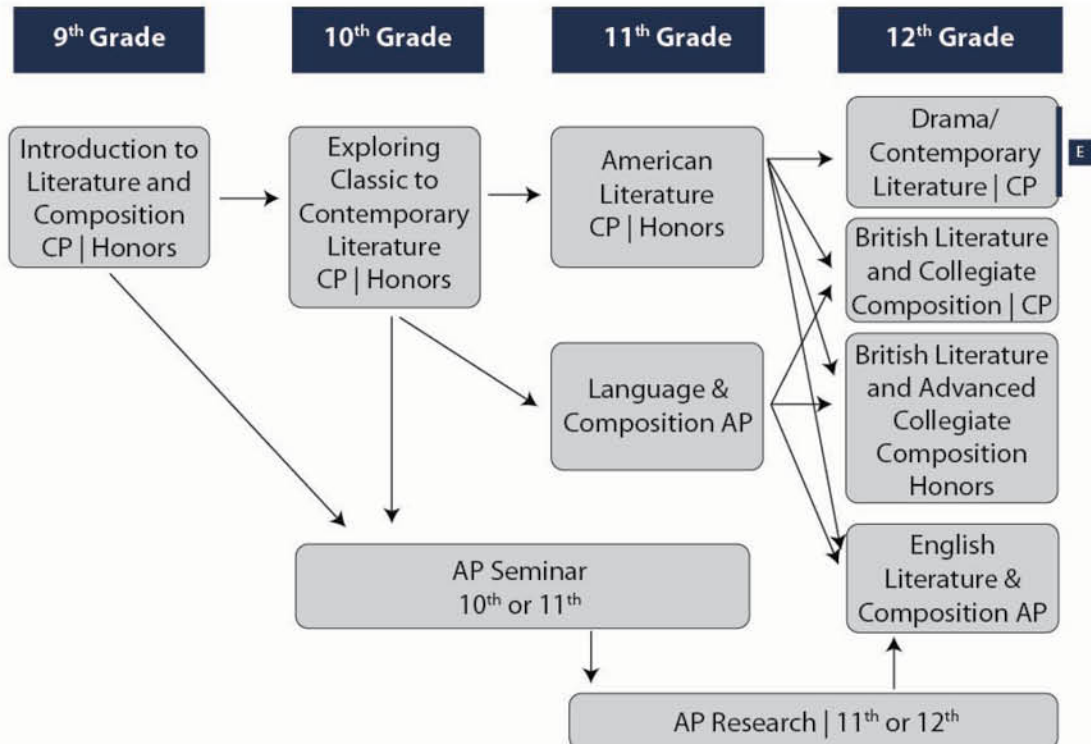
- An interview with the Dean of Academics for Curriculum, Instruction and Assessments is required
- Approval to enroll in an online VHS class will be made by the Dean of Academics
- Each course offered through VHS has its own set of requirements, learning objectives and expectations
- Each student is 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 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 IHS and VHS, and are required to take the AP examination in May.
- All assignments are completed online.
- Course grades for virtual courses are posted on student report cards, and transcripts, and factor into honor roll status and cumulative GPA. A passing grade of 65 is required.
- Submission of an Immaculate High School contract must be signed by both the student and parent of a student enrolling in a VHS class.

PATHWAYS

THEOLOGY PATHWAY



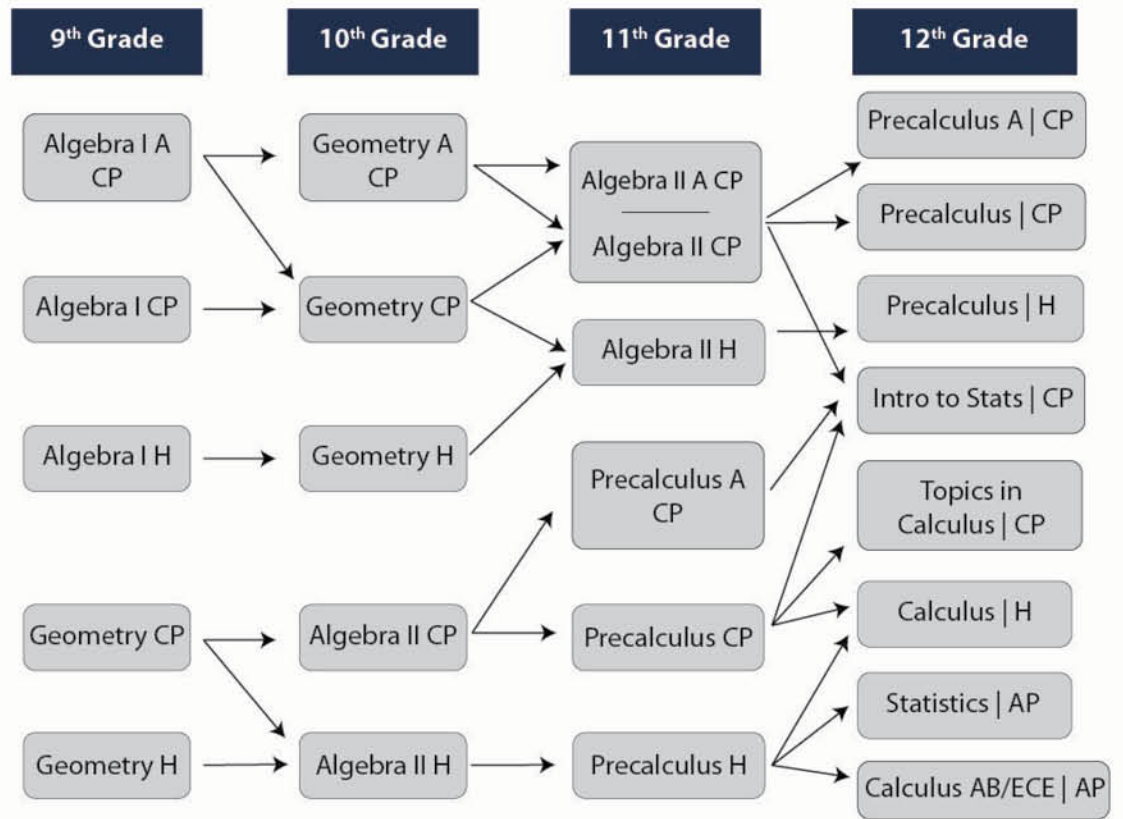
ENGLISH PATHWAY



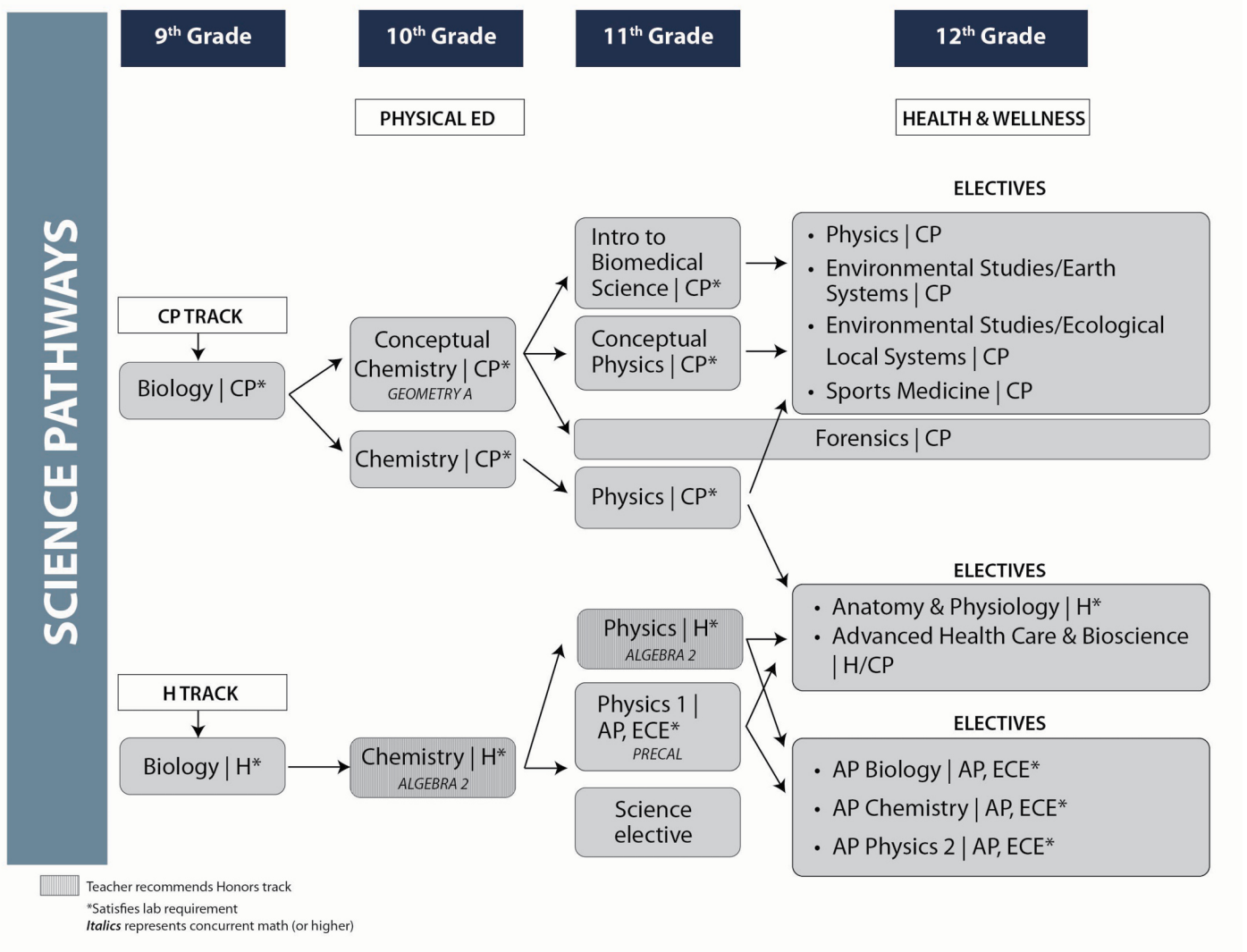
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PATHWAYS

MATHEMATICS PATHWAYS

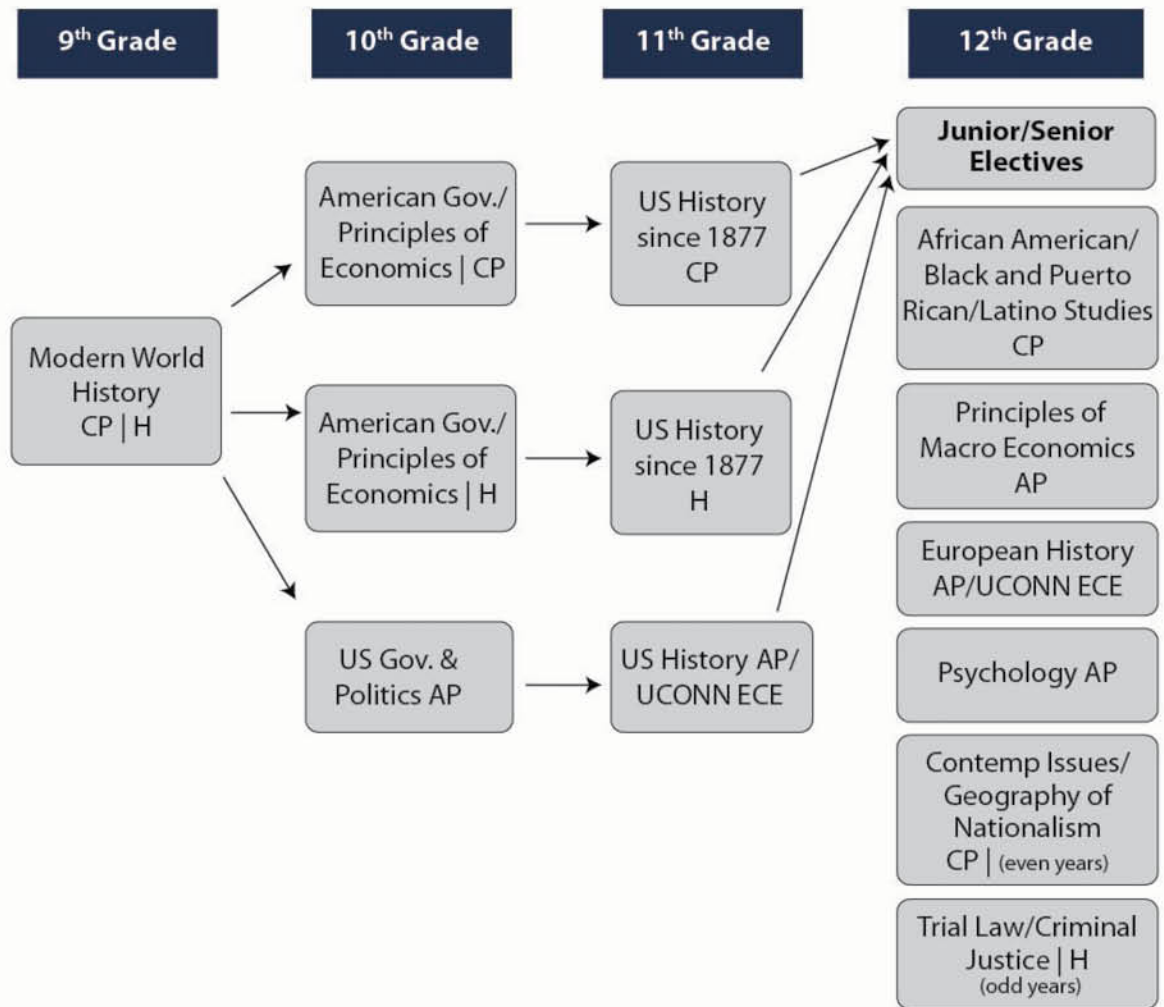


PATHWAYS



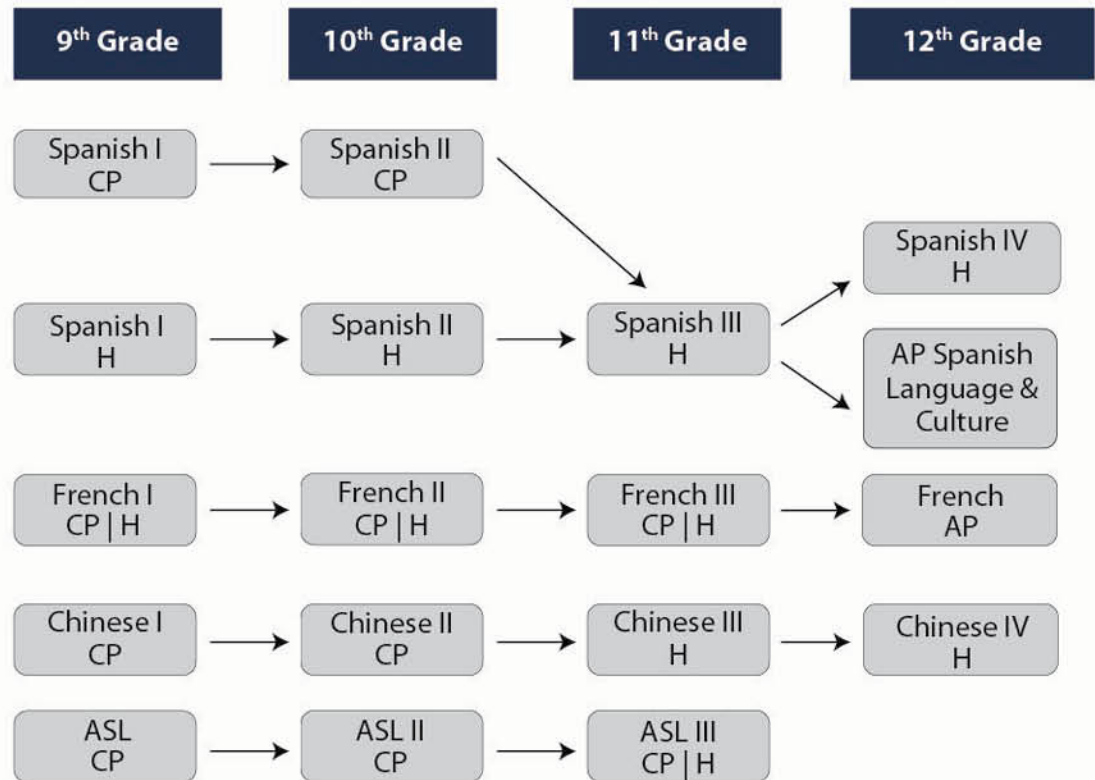
PATHWAYS

SOCIAL STUDIES PATHWAY



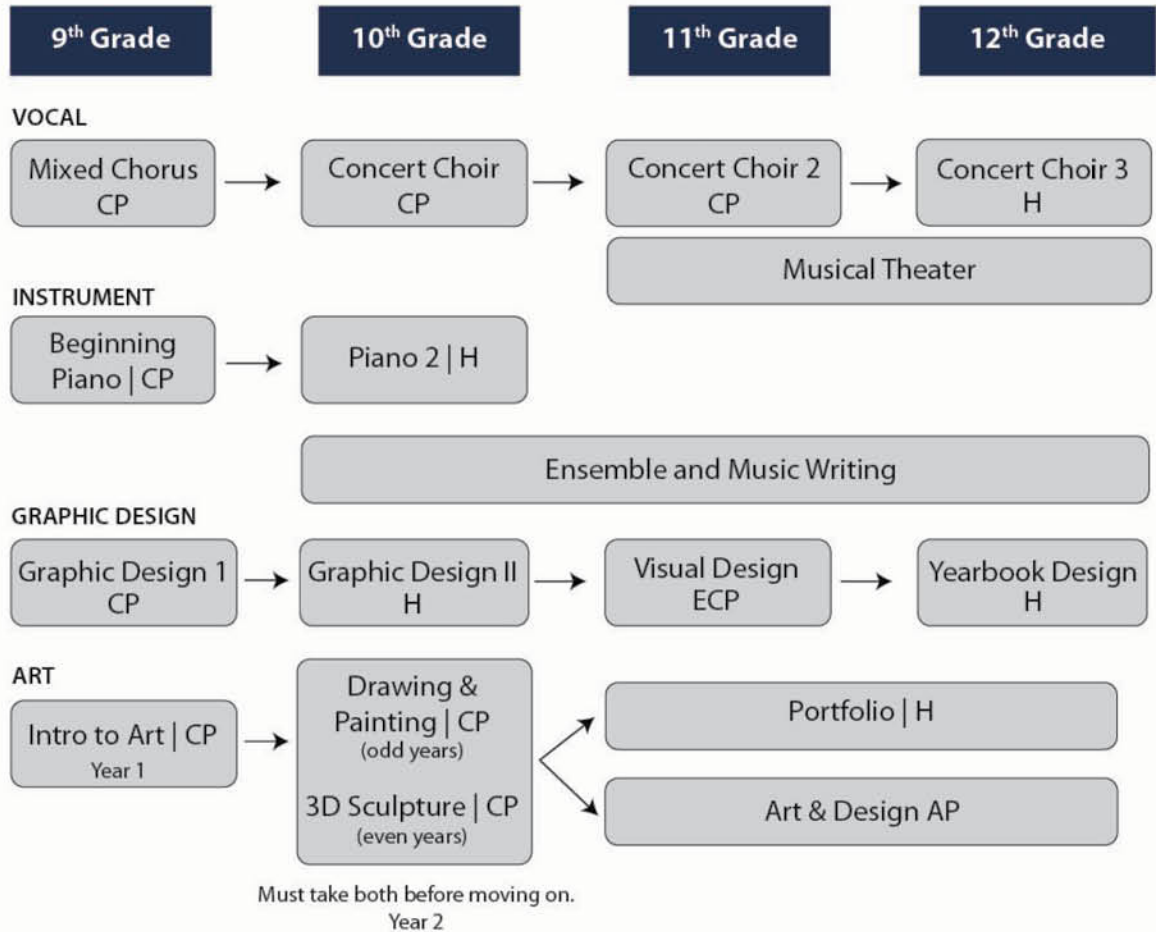
PATHWAYS

WORLD LANGUAGE PATHWAY



PATHWAYS

FINE ARTS PATHWAYS



PATHWAYS

CAREER & TECHNOLOGY PATHWAYS

9th Grade

Microsoft Digital Skills:
Foundations for Certifications | CP

10th Grade

Graphic Design I | CP (for full sequence see fine arts pathways)

Podcast Production | CP (odd years)

Intro into Java Programming | CP (even years)

Intro to Game Design & Development | CP

11th Grade

Yearbook Production | CP

Computer Science | AP (even years)

12th Grade

BUSINESS CONCENTRATION

Introduction to Business
and Marketing | CP

Business Law &
Negotiations | H

Business Leadership
& Ethics | H

Sports Management | CP

Principals of Accounting | H

Personal Finance
& Financial
Literacy | CP

ENGINEERING CONCENTRATION

Introduction to Engineering Design | H

Civil Engineering & Architecture | H

Principles of Engineering | H

THEOLOGY

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- Students must earn a final grade of **93** in College Prep, **AND** have the approval of the Academic Review Committee to be considered for Advanced Placement courses.
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- Teacher recommendations are also provided to students in addition to their academic eligibility.

011 THEOLOGY I CP: OLD TESTAMENT: CHRIST REVEALED IN HEBREW SCRIPTURES

1 Credit

Course satisfies freshman year Theology graduation requirement

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 a 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 personal and communal prayer in deepening our relationship with God.

021 THEOLOGY II CP: A STUDY OF THE NEW TESTAMENT AND EARLY CHURCH

1 Credit

Course satisfies sophomore year Theology graduation requirement

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 culminate the purpose of this course.

031 THEOLOGY III CP: SACRAMENTS AND CHRISTIAN MORALITY

1 Credit

Course satisfies junior year Theology graduation requirement

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 the Sacrament of Reconciliation, as part of their ongoing moral development.

050 THEOLOGY IV CP: CHRISTIAN LIFESTYLES AND WORLD RELIGIONS

1 Credit

Course satisfies senior year Theology graduation requirement

During the first semester of the course, students 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 explored include married life, single life, consecrated life, and priesthood. It will be discussed from the point of view of creating a Christian lifestyle- the demands, 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 Taoism, Confucianism, Hinduism, Buddhism, Judaism and Islam. This course will look at the history, major beliefs and practices of religious 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.

016 THEOLOGY IV H: CHRISTIAN LIFESTYLES AND MARIOLOGY H

1 Credit

Course satisfies senior year Theology graduation requirement

During the first semester the course will discuss how to live like Jeseus 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 include married life, single life, consecrated life, and priesthood. It will be discussed from the point of view of creating a Christian lifestyle, the demands, responsibilities, strengths and weaknesses. The second semester of this course in Roman Catholic Mariology deals with the life and appreciation of the Virgin Mary, as the New Eve, Mother of Jesus, God and all humanity. We will also look at her veneration throughout the ages in theology, prayer, and apparitions. The students will be expected to participate in essays, reflection papers, and group projects. Videos and films will be viewed on various apparitions as well.

017 THEOLOGY IV H: CHRISTIAN LIFESTYLES AND CATHOLIC CULTURE H

1 Credit

Course satisfies senior year Theology graduation requirement

During the first semester the 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 include married life, single life, consecrated life and priesthood. It will be discussed from the point of view of creating a Christian lifestyle- the demands, responsibilities, strengths and weaknesses. The second semester of this course will examine current events, art and films as a means 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, the 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.

ENGLISH

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118 FOUNDATIONS OF ENGLISH LANGUAGE ARTS CP

1 Credit

Placement in this course based on entrance exam and Academic Review Committee Recommendation

This two-semester course is offered concurrently with *Introduction to Literature and Composition CP* to assist students with additional critical thinking skills in reading, writing, listening and speaking. Students are challenged to progress in all areas necessary for effective oral and written communication. Review of basic grammar, unity and coherence in writing is stressed. Other topics include study skills, research skills and vocabulary development. Additionally, there will be training in standardized test-taking strategies.

111 INTRODUCTION TO LITERATURE AND COMPOSITION CP

1 Credit

Course satisfies freshman year English graduation requirement

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. Text such as; *Fahrenheit 451* by Ray Bradbury, *Romeo and Juliet* by William Shakespeare and *Night* by Elie Wiesel will be studied. Review of basic grammar, unity and coherence in writing is stressed. Other topics include study skills, research skills and vocabulary development. Additionally, there will be training in standardized test-taking strategies.

112 INTRODUCTION TO LITERATURE AND COMPOSITION H

1 Credit

Placement in this course is based on entrance exam and Academic Review Committee Recommendation

Course satisfies freshman year English graduation requirement

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. In addition, this level course focuses 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.

121 EXPLORING CLASSIC TO CONTEMPORARY LITERATURE CP

1 Credit

Course satisfies sophomore year English graduation requirement

This two-semester course is a logical development of the close reading and writing skills, and critical thinking techniques acquired in English I. Students read, analyze and apply critical thinking reading skills for coherent oral presentations, essay, and journal writing. In addition to strengthening grammar, writing, reading, and vocabulary development, the mechanics of the research paper will be covered; students will be required to produce a paper of moderate length. Additionally, there will be training in standardized test-taking strategies. Students read and analyze literature such as: William Shakespeare's *Macbeth*, *A Christmas Carol* by Charles Dickens and *Antigone* by Sophocles.

122 EXPLORING CLASSIC TO CONTEMPORARY LITERATURE H

1 Credit

Course satisfies sophomore year English graduation requirement

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 stories, poetry, drama, non-fiction, novels, and myths. 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. Additionally, there will be training in standardized test-taking strategies.

140 AP SEMINAR

1 Credit

Course satisfies sophomore year English graduation requirement

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics/issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies and foundational, literary and philosophical texts: listening to and viewing speeches, broadcasts and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. **Students are required to sign an Enrollment Contract, and take both the AP Seminar exam (additional fee), and the course exam in May.**

131 AMERICAN LITERATURE CP (English III)

1 Credit

Course satisfies junior English graduation requirement

English III is a two-semester course that surveys the tradition of American literature. Literary works such as *The Crucible* by Arthur Miller, selections from *Walden*, and F. Scott Fitzgerald's *The Great Gatsby* are chosen to reflect the evolution of American thought within a historical setting. In addition to selections from the text, several novels/essays, short stories, poetry, non-fiction, and drama will be analyzed as representations of American thought and literary movements. Reading selections are analyzed as representative pieces of American thought and literary movements from 1620 into the 2000's. Students will be required to produce a research paper and complete all outside assigned readings. Additionally, there will be training in standardized test-taking strategies.

132 AMERICAN LITERATURE H (English III Honors)

1 Credit

Course satisfies junior English graduation requirement

English III Honors is a two-semester course that introduces 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. Additionally, there will be training in standardized test-taking strategies.

133 ENGLISH LANGUAGE AND COMPOSITION AP (junior class)

1 Credit

Course satisfies junior English graduation requirement

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. Workshops will be used to develop additional skills required on the AP exam and to provide students with a more intensive writing experience. **Students are required to sign an Enrollment Contract, and take both the English Language and Composition AP exam (additional fee), and the course exam in May.**

139 AP RESEARCH

1 Credit

Prerequisite: AP Seminar to receive the AP Capstone Certificate

Course satisfies junior or senior English graduation requirement

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing and synthesizing information. Students reflect on their skill development, document their processes and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000-5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

146 BRITISH LITERATURE AND COLLEGIATE COMPOSITION CP

1 Credit

Course satisfies senior English graduation requirement

English IV: British Literature and Collegiate Composition surveys English literature in the Anglo-Saxon, Medieval, Renaissance, and Elizabethan periods, and the 17th, 18th, and 19th centuries. 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. Public speaking skills are also addressed through various project assignments with peer groups. College Composition skills are practiced throughout the year-long course, with a focus on active reading and analytical writing, developing skills necessary for success in college and beyond - with emphasis on organization, unity, coherence and development. Students will also learn how to reflect on their writing, and revise their own writing for errors in grammar, mechanics, and tone.

143 ENGLISH LITERATURE AND COMPOSITION AP (Senior Class)**1 Credit***Course satisfies senior English graduation requirement*

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. **Students are required to sign an Enrollment Contract, and take both the English Literature and Composition AP exam (additional fee), and the course exam in May.**

160 BRITISH LITERATURE & ADVANCED COLLEGIATE COMPOSITION H**1 Credit***Course satisfies senior English graduation requirement*

English IV Honors: British Literature and Advance Collegiate Composition is intended for students of exceptional reading and writing ability. The course surveys English literature in the Anglo-Saxon, Medieval, Renaissance, and Elizabethan periods, and the 17th, 18th, and Romantic 20th centuries. 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. Advanced Collegiate Composition English is designed to improve students' writing ability, as it is necessary for success in college and a future career. The coursework focuses on active reading and analytic writing, with an emphasis on organization, unity, coherence, and development. Students will also learn how to reflect on their writing and revise their errors in grammar, mechanics, and tone. Finally, this course will provide students with the study skills necessary for college success.

161 DRAMA/CONTEMPORARY LITERATURE CP**1 Credit***Course satisfies senior elective course towards graduation*

The first semester of this full year course will center on Drama, focusing on both historical and modern works, incorporating reading, interpretation, and the preparation and presentation of monologues and scene studies. Students will study the history and terminology of the theater. They will also 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's experience. The final semester grade will be determined in part by a student portfolio and participation in the fall drama program. The second semester of this course will focus on Contemporary Literature, offering students the opportunity to explore current works of literature, particularly plays, to understand how modern authors reflect the social, political, and cultural issues of our time. Students may choose from a selection of current texts-both American and global in nature to examine the importance of style and viewpoint in contemporary literature in contrast to classic works read in previous years. Students will continue to engage in various writing formats, building skills necessary for success in a college literature course.

MATH

How can I change levels from CP to Honors, or Honors to AP?

- Students must earn a final grade of **93** in College Prep to be considered for the Honors pathway, **OR** an **87%** in Honors to be considered for the Advanced Placement pathway.
- Students must earn a final grade of **83** in Honors or AP courses to remain on the respective pathway.
- Students must earn a final grade of **93** in Precalculus CP to be considered for AP Stats.
- Students must earn a final grade of **87** in level A (CP) to be considered for the CP pathway AND have the approval of the Academic Review Committee.
- Teacher recommendations are also provided to students in addition to their academic eligibility.

252 ALGEBRA I A CP

1 Credit

Placement for this course is based on the High School Placement Exam and previous Mathematics courses taken
Course satisfies Mathematics graduation requirement

This course builds the foundation of Mathematics by reinforcing skills and preparing students for the next level of Mathematics. Students will solve first-degree equations, word problems using first-degree equations, solving and graphing first-degree inequalities, word problems using first-degree inequalities, graphing linear functions in two variables, solving linear systems in two variables by graphing, 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. Additionally, there will be training in standardized test-taking strategies.

211 ALGEBRA I CP

1 Credit

Placement for this course is based on the High School Placement Exam and previous Mathematics courses taken
Course satisfies Mathematics graduation requirement

This two-semester course builds on basic algebraic skills where students will master solving first-degree equations, word problems using first-degree equations, solving and graphing first-degree inequalities, word problems using first-degree inequalities, graphing linear functions in two variables, solving linear systems in two variables by graphing, 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. Additionally, there will be training in standardized test-taking strategies.

212 ALGEBRA I H

1 Credit

Placement for this course is based on the High School Placement Exam and previous Mathematics courses taken
Course satisfies Mathematics graduation requirement

This two-semester course requires an in-depth study of all the topics covered in the 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, and solving quadratic functions over the real numbers by the quadratic formula. Practical applications of real-world problems will be incorporated throughout this course. Additionally, there will be training in standardized test-taking strategies.

225 GEOMETRY A CP**1 Credit**

Course is sequential to Algebra I A

Incoming ninth grade placement for this course is based on the High School Placement Exam and previous Mathematics courses taken

Course satisfies Mathematics graduation requirement

This two-semester course, sequential to Algebra I A, covers the basic skills in geometry. This course is an integration of plane geometry with arithmetic and algebra. Syllabus includes all the basic concepts of geometry, such as points, lines, planes, angles, triangles, quadrilaterals, polygons, circles, congruence, similarity, basic proofs, constructions, areas and volumes of solids, plus trigonometric ratios of right triangles. Additionally, there will be training in standardized test-taking strategies.

221 GEOMETRY CP**1 Credit**

Course is sequential to Algebra I CP

Incoming ninth grade placement for this course is based on the High School Placement Exam and previous Mathematics courses taken

Course satisfies Mathematics graduation requirement

This two-semester course, sequential to Algebra I A, is an integration of plane geometry with arithmetic and algebra. Syllabus includes all 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. Additionally, there will be training in standardized test-taking strategies.

222 GEOMETRY H**1 Credit**

Course is sequential to Algebra I H

Incoming ninth grade placement for this course is based on the High School Placement Exam and previous Mathematics courses taken

Course satisfies Mathematics graduation requirement

This two-semester course, sequential to Algebra I Honors, requires an in-depth study of all topics covered in Geometry with an increase in pace and rigor and offers additional topics such as: elementary logic, 3-dimensional 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. Additionally, there will be training in standardized test-taking strategies.

230 ALGEBRA II A CP**1 Credit**

Course is sequential to Geometry A CP

Course satisfies Mathematics graduation requirement

This two-semester course, sequential to Geometry A, reinforces the skills and concepts of algebra with an additional emphasis on: the solution of first and second-degree equations and inequalities; linear systems in two variables; quadratic equations, rational equations and expressions; irrational, imaginary and complex numbers; functions and graphs, the introduction to analytic geometry through the conic sections; exponential and logarithmic functions; and applications of real-world problems. This course is integrated with a TI-84+ calculator. Additionally, there will be training in standardized test-taking strategies.

231 ALGEBRA II CP**1 Credit***Course is sequential to Geometry A CP and Geometry CP**Course satisfies Mathematics graduation requirement*

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, the introduction to analytic geometry through the conic sections; exponential and logarithmic functions; and applications of real-world problems. This course is integrated with a TI-84+ calculator. Additionally, there will be training in standardized test-taking strategies.

232 ALGEBRA II H**1 Credit***Course is sequential to Geometry H**Course satisfies Mathematics graduation requirement*

This two-semester course is sequential to Geometry, and requires an in-depth study of all topics covered in the CP Algebra II course with an increase in pace and rigor and offers additional topics such as: polynomial equations, and functions; rational equations and functions; radical equations and functions; piecewise functions; operations with matrices; exponential and logarithmic functions; analytic geometry; trigonometry of the right triangle and the unit circle; graphing sine and cosine; and applications of real-world problems related to each topic studied. This course is integrated with a TI-84+ calculator. Additionally, there will be training in standardized test-taking strategies.

254 PRECALCULUS A CP**1 Credit***Course is sequential to Algebra II CP or Algebra II A**Course satisfies Mathematics graduation requirement*

This two-semester course is a functions approach to algebra and trigonometry covering: equations and inequalities, functions and graphs, systems 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 an introduction to sequence, series and probability. This course is integrated with a TI-84+ calculator. Additionally, there will be training in standardized test-taking strategies.

246 PRECALCULUS CP**1 Credit***Course is sequential to Algebra II CP**Course satisfies Mathematics graduation requirement*

This two-semester course, uses a functions approach to advance algebra and trigonometry and covers the following topics: factoring, completing the square, discriminate, quadratic formula, equations of lines, polynomial and rational functions, linear and nonlinear systems of equations, exponential and logarithmic functions, and matrices and determinants. Additional emphasis is given to the trigonometric functions including the unit circle and graphs. This course is integrated with a TI-84+ calculator. Additionally, there will be training in standardized test-taking strategies.

242 PRECALCULUS H**1 Credit***Course is sequential to Algebra II CP or Algebra II H**Course satisfies Mathematics graduation requirement*

This two-semester course provides an in-depth study of advanced Algebra and trigonometry with an increase in pace and rigor and covers the following topics: polynomial and rational functions and their graphs, inverse functions, composition of functions, linear and nonlinear systems of equations, polynomial and rational inequalities, exponential and logarithmic functions with applications, matrices and determinants. Additional emphasis is given to the trigonometric functions

including the unit circle, graphs, identities, inverse functions, and their graphs. The curriculum of the College Board SAT Subject Test (Level II) is covered. This course is integrated with a TI-84+ calculator. Additionally, there will be training in standardized test-taking strategies.

244 CALCULUS H (CEP)

1 Credit

Course is sequential to Precalculus H

Course satisfies Mathematics graduation requirement

This two-semester course 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. This course is integrated with a TI-84+ calculator. Additionally, there will be training in standardized test-taking strategies. *If students choose to register with WCSU for an additional fee, they can earn college credits that may be transferable to colleges and universities throughout the nation.*

248 TOPICS IN CALCULUS CP

1 Credit

Course is sequential to Precalculus CP

Course satisfies Mathematics graduation requirement

This two-semester course is an introductory course to Calculus. It is designed to help students strengthen their Precalculus skills as well as learn basic concepts in Calculus. Topics include: solving equations and inequalities (rational, radical, polynomial, logarithmic, exponential, and trigonometric) and analyzing functions (domain and range, graph, average rate of change). Calculus topics include: finding limits graphically, numerically and analytically; using limits to analyze continuity, asymptote and end behaviour of a function; applying basic rules, product rules, quotient rules as well as the chain rule to derive functions; and finding indefinite integral and exploring the concept of definite integral. Students are required to have a graphing calculator. This course is integrated with a TI-84+ calculator.

243 CALCULUS/AB ECE/AP

1 Credit

Course is sequential to Precalculus H

Course satisfies Mathematics graduation requirement

This two-semester course 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; and 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. This course is integrated with a TI-84+ calculator. **Students are required to sign an Enrollment Contract, and take both the Calculus AP exam (Additional fee), and the course exam in May.** *By registering with WCSU (Additional fee) students can earn four college credits that may be transferable to colleges and universities throughout the nation.*

206 INTRODUCTION TO STATISTICS CP

1 Credit

Course is sequential to Algebra II CP, Algebra II H, Precalculus CP or Precalculus A

Course satisfies Mathematics graduation requirement

This two-semester course is a general introductory course to the field of statistics. The content is designed to provide students with the foundation of statistics that can be used across many fields of study. Students study the collection, organization, displaying, and interpretation of data. Students study methods of planning and conducting different types of studies. Surveys, observational studies, and experimental designs are explored. Uniform, normal, binomial geometric, and poisson distributions in the real world are investigated. This course is integrated with a TI-84+ calculator.

207 STATISTICS AP/CEP

1 Credit

Course is sequential or concurrent to Precalculus H

Course satisfies Mathematics graduation requirement

The purpose of this two-semester AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1. Exploring Data: Describing patterns and departures from patterns; 2. Sampling and Experimentation: Planning and conducting a study; 3. Anticipating Patterns: Exploring random phenomena using probability and simulation; 4. Statistical Inference: Estimating population parameters and testing hypotheses. Students who successfully complete the course and exam may receive credit, advanced placement or both for a one-semester introductory college statistics course. **Students are required to sign an Enrollment Contract, and take both the Statistics AP exam (additional fee), and the course exam in May.** *By registering with WCSU (additional fee) students can earn six college credits that may be transferable to colleges and universities throughout the nation.*

SCIENCE

How can I change levels from CP to Honors, or Honors to AP?

- Students must earn a final grade of **93** in College Prep to be considered for the Honors pathway, **OR** an **87** in Honors to be considered for the Advanced Placement pathway.
- Students must earn a final grade of **93** in College Prep, **AND** have the approval of the Academic Review Committee to be considered for Advanced Placement courses.
- Students must earn a final grade of **83** in Honors or AP courses to remain on the respective pathway.
- Teacher recommendations are also provided to students in addition to their academic eligibility.

411 BIOLOGY CP

1 Credit

Course satisfies laboratory science graduation requirement

This two-semester lab course introduces fundamental principles of biology to freshmen including an introduction to biochemistry, cellular structure and function, metabolism, the central dogma of biology, genetics, and evolution. Students will be introduced to inquiry-based learning through hands-on laboratory activities, where they will become familiar with basic laboratory techniques and master the scientific method.

412 BIOLOGY H

1 Credit

Course satisfies laboratory science graduation requirement

This two-semester lab course introduces honors-level freshmen to major biological principles including biochemistry, cellular structure and function, evolution, genetic continuity, metabolism, and the diversity of life. Emphasis is placed on science as inquiry based. Students perform numerous experiments covering basic laboratory skills, biochemical analysis and microscopic procedures and studies. Honors Biology differs from College Prep Biology in the amount of homework, depth of topic coverage, pacing, and rigorousness of assessments.

430 CONCEPTUAL CHEMISTRY CP

1 Credit

Prerequisite: Completed Biology and Algebra I

Course satisfies laboratory science graduation requirement

This two-semester introductory lab course offers the student a conceptual understanding of the fundamentals of chemistry. Topics include: the basic physical and chemical properties of matter, the study of atomic structure, the electromagnetic spectrum, climate change, chemical bonding, naming compounds, equation writing, stoichiometry, and acids and bases. The problem-solving approach is emphasized when appropriate. Chemical principles are applied to real-world phenomena and modern problems. A scientific calculator is required.

431 CHEMISTRY CP

1 Credit

Course is sequential to Biology CP

Prerequisite: Biology and Algebra I

Course satisfies laboratory science graduation requirement

This two-semester lab course examines the basic physical and chemical properties of matter and the energy changes that occur during phase changes and chemical reactions. Topics include: the study of atomic structure, chemical bonding, naming compounds, equation writing, stoichiometry, gas laws, kinetic theory, solutions, and acids and bases. The problem-solving approach is emphasized when appropriate. A scientific calculator is required.

422 CHEMISTRY H

1 Credit

Course is sequential to Biology H

Corequisite: Algebra II or Algebra II H

Course satisfies laboratory science graduation requirement

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 behaviour 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. Honors Chemistry is a rigorous program for students who have demonstrated exceptional ability in both science and math. Honors differs from College Prep Chemistry in the amount of homework and independent studying, depth of topic coverage, pacing, and rigorousness of assessments. A scientific calculator is required.

463 CHEMISTRY AP/UCONN ECE 1127Q & 1128Q (junior/senior course)

1 Credit

Prerequisite: Chemistry H (Chemistry CP requires Academic Committee Review)

Course satisfies laboratory science graduation requirement

This two-semester lab course is a first-year college chemistry program. It is part of the Early College Experience program from the University of Connecticut, and is also an AP program. A summer assignment to review fundamental skills is required. Strong emphasis is placed on chemical calculations, the mathematical treatment of problems and laboratory work. Topics covered extensively include: atomic structure and properties; molecular and ionic compound structure and properties; intermolecular forces and properties; chemical reactions; kinetics, thermodynamics; equilibrium; acids and bases; and applications of thermodynamics. Each student must have a scientific/graphing calculator. **Students are required to sign an Enrollment Contract, and take both the Chemistry AP exam (additional fee), and the course exam in May.** *By registering with UCONN (additional fee), students can earn eight college credits for Chemistry 1127Q and 1128Q that may be transferable to colleges and universities throughout the nation.*

453 BIOLOGY AP / UCONN ECE BIOL 1107 (junior/senior course)

1 Credit

Prerequisite: Biology H and Chemistry H, (Biology CP & Chemistry CP by Academic Committee Review)

Course satisfies laboratory science graduation requirement

This two-semester lab course is a first-year college biology program from the University of Connecticut, and is also an AP course. A summer assignment to review fundamental skills is required. Students examine topics such as: the chemistry of life, cellular energetics, cell structure and function, heredity, molecular genetics, evolutionary biology, diversity of organisms, ecology, and human anatomy. Students will perform various inquiry-based laboratory experiments as well as dissections. **Students are required to sign an Enrollment Contract, and take both the AP exam (additional fee), and the course exam in May.** *By registering with UCONN (additional fee) students can earn four college credits for BIOL 1107: Principles of Biology I that may be transferable to colleges and universities throughout the nation.*

474 CONCEPTUAL PHYSICS CP (junior/senior course)**1 Credit***Prerequisite: Completed Chemistry and Algebra I**Course satisfies laboratory science graduation requirement*

This two-semester introductory lab course offers the student a conceptual understanding of the fundamentals of physics. It includes measurement skills, one-dimension motion including speed, time and velocity, using graphs, Newton's laws, work and energy, density, and basic electricity. The problem-solving approach is emphasized when appropriate. Physics principles are applied to real-world phenomena and modern problems. A scientific calculator is required.

435 PHYSICS CP (junior/senior course)**1 Credit***Prerequisite: Completed Chemistry CP or H and Algebra II (can be concurrent)**Course satisfies laboratory science graduation requirement*

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 everyday environments; problem solving techniques that apply to several 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.

436 PHYSICS H (junior/senior course)**1 Credit***Prerequisite: Algebra II H and Chemistry H, (Algebra II CP and Chemistry CP by Academic Committee Review)**Course satisfies laboratory science graduation requirement*

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. A comprehensive written lab report is submitted following each experiment. A scientific calculator, protractor and compass are required. Honors Physics is a rigorous program for students who have demonstrated exceptional ability in both science and math. Honors differs from College Prep physics in the amount of homework, depth of topic coverage, pacing and rigor of assessments.

444 PHYSICS AP 1/UCONNECE 1201Q (junior/senior course)**1 Credit***Prerequisite: Algebra II H, (Algebra II CP requires Academic Committee Review)**Corequisite: Concurrent enrollment in Pre-Calculus**Course satisfies laboratory science graduation requirement*

This inquiry-based laboratory course prepares students for the Advanced Placement examination in Physics I. A summer assignment to review fundamental skills is required. The curriculum represents topics covered in a non-calculus first semester college physics course: Newtonian mechanics, work/energy and power, mechanical wave and sound and an introduction to fluid dynamics. A strong emphasis is placed on the application of familiar principles in new situations in which the student must devise a logical solution. Intended for those students planning on majoring in science, mathematics, engineering or the medical field. A scientific or graphing calculator is required. **Students are required to sign an Enrollment Contract, and take both the Physics 1 AP exam (additional fee), and the course exam in May.** *By registering with UCONN (additional fee) students can earn four college credits for UCONN Physics 1201Q General Physics I I that may be transferable to colleges and universities throughout the nation.*

445 PHYSICS AP 2/UCONNECE 1202Q**1 Credit**

Prerequisite: AP Physics 1; Enrollment in UCONN 1202Q requires a C in UCONN1201Q

Course satisfies laboratory science graduation requirement

This inquiry-based laboratory course follows AP Physics 1 and prepares students for the Advanced Placement examination in Physics 2. A summer assignment to review fundamental skills is required. The curriculum represents topics mastered in a non-calculus second semester college physics course: fluid mechanics, thermodynamics, electricity, magnetism, light, optics, and 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 sign an Enrollment Contract, and take both the Physics 2 AP exam (additional fee), and the course exam in May.** By registering with UCONN (additional fee) students can earn four college credits for UCONN Physics 1202Q General Physics 2 that may be transferable to colleges and universities throughout the nation.

404 HUMAN ANATOMY & PHYSIOLOGY H (junior/senior course)**1 Credit**

Prerequisite: Biology H, Chemistry H (can be concurrent), (Biology & Chemistry CP requires Academic Committee Review)

Course satisfies laboratory science graduation requirement

This two-semester lab course offering is for any student considering a career in health studies, medical science, physical training or any other related field. A summer assignment to review fundamental skills is required. 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.

403 ADVANCED HEALTH CARE & BIOSCIENCES CP/H (junior/senior elective)**1 Credit**

Prerequisite: Biology and Chemistry

Corequisite: Human Anatomy & Physiology H

This two-semester state certified health 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. Students develop 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. Students participate in off-campus clinical rotations to meet the requirements of clinical experience hours as required for the CT Nursing Assistant Certification. Students must pass the Prometrics test for certification by **May 22nd** to receive honors credit for this course.

407 FORENSIC SCIENCE CP (junior/senior elective)**1 Credit**

Prerequisite: Biology and Chemistry

Forensic science is a comprehensive study of the sciences used by police agencies in the criminal justice system. Major topics include processing crime scenes, identification and analysing 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.

424 INTRO TO BIOMEDICAL SCIENCE CP (junior/senior course)**1 Credit***Prerequisite: Biology and Chemistry**Course satisfies laboratory science graduation requirement*

This two-semester lab course introduces students to the various disciplines that encompass the biomedical science field: human anatomy and physiology, cell biology, bacteriology, virology, immunology, epidemiology, and biotechnology. Emphasis is placed on examining lifestyle choices, understanding various health conditions, and exploring available medical treatments. Students conduct a variety of labs, activities, and research projects to support their learning and reinforce the important concepts.

475 ENVIRONMENTAL SCIENCE: EARTH SYSTEMS CP (junior/senior elective)**.5 Credit***Prerequisite: Biology and Chemistry*

This one-semester course explores the physical and biological systems of the earth. A primary emphasis of this course is to consider how the distribution of living organisms is shaped by the interaction of climate, geology, regional and historical factors including human activity. This framework is crucial to understanding how patterns of environmental variation affect/influence organisms. Topics will include the biosphere, biomes, biogeochemical cycles, ecosystems, water/aquatic systems, basic geology, and energy use patterns. There is no required sequence to this Environmental Science option as it pairs with Ecology of Local Systems.

476 ENVIRONMENTAL SCIENCE: ECOLOGY OF LOCAL SYSTEMS (junior/senior elective)**.5 Credit***Prerequisite: Biology and Chemistry*

This is a one-semester course that explores the interaction between the natural world and human activity. A primary emphasis of this course is to consider how human activity can shape and influence environmental quality on a local/regional basis. Key topics include sustainability vs. regeneration, conservation biology, resource management, soil, water and air quality, pollution, and human health. Consideration will also be given to techniques of environmental monitoring, meeting human energy challenges, "Green Building," and local/regional strategies. There is no required sequence to this Environmental Science option as it pairs with Earth Systems.

456 FOUNDATIONS OF SPORTS MEDICINE CP (junior/senior elective)**.5 Credit***Prerequisite: Biology and Chemistry**Course traditionally is taken sequentially with Foundations of Sports Management*

This semester course provides a general overview of sports medicine, athletic training, and exercise science. It examines human anatomy and the care and prevention of athletic injuries. Topics emphasize First Aid, CPR, muscular and skeletal anatomy, sport psychology, preseason conditioning, emergency preparedness, assessment and evaluation of sports injuries, injury prevention, sports nutrition, and athletic training. This course is intended to help students gain an understanding of sports medicine, various associated disciplines, and the role they play in the physically active community.

455 HEALTH AND WELLNESS CP**.5 Credit***Course satisfies .5 of senior seminar graduation requirement*

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 physical, social, emotional, intellectual, spiritual and environmental aspects. A combination of lectures, group discussion, activities, presentations, guest speakers, video, and nutritional and fitness projects are included. This course covers all aspects of health as it pertains to the students as they go to college or the workforce.

804 PHYSICAL EDUCATION CP**1 Credit***Course satisfies the PE graduation requirement*

Physical education provides an array of activities with an abundance of opportunities for every student to be successful. The program provides students with 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.

SOCIAL STUDIES

How can I change levels from CP to Honors, or Honors to AP?

- Students must earn a final grade of **93** in College Prep to be considered for the Honors pathway, **OR** an **87** in Honors to be considered for the Advanced Placement pathway.
- Students must earn a final grade of **93** in College Prep, **AND** have the approval of the Academic Review Committee to be considered for Advanced Placement courses.
- Students must earn a final grade of **83** in Honors or AP courses to remain on the respective pathway.
- Teacher recommendations are also provided to students in addition to their academic eligibility.

525 MODERN WORLD HISTORY CP

1 Credit

Course satisfies freshman year Social Studies graduation requirement

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.

526 MODERN WORLD HISTORY H

1 Credit

Placement: Academic Review Committee Recommendation

Course satisfies freshman year Social Studies graduation requirement

This survey course examines 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 AMERICAN GOVERNMENT CP

.5 Credit

Course satisfies sophomore year Social Studies graduation requirement

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. The American Government course is a state mandated course for graduation. This course is consecutive with Principles of Economics.

578 PRINCIPLES OF ECONOMICS CP**.5 Credit***Course satisfies sophomore year Social Studies graduation requirement*

This semester program of study is an introduction to the principles of macroeconomic and microeconomics. This course will look at themes such as scarcity, the laws of supply and demand, and elasticity, while building to broader topics such as competition, market structures, and businesses and labor. Students will also look at how ideas and themes of economics affect their daily life, their local economy, their country, and the international economy.

509 AMERICAN GOVERNMENT H**.5 Credit***Course satisfies sophomore year Social Studies graduation requirement*

This one-semester honors 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. The American Government course is a state mandated course for graduation. This course is consecutive with Principles of Economics.

579 PRINCIPLES OF ECONOMICS H**.5 Credit***Course satisfies sophomore year Social Studies graduation requirement*

This semester program of study is an in-depth study of the principles of macroeconomic and microeconomics. This course will look at themes such as scarcity, the laws of supply and demand, and elasticity, while building to broader topics such as competition, market structures, and businesses and labor. Students will also look at how ideas and themes of economics affect their daily life, their local economy, their country, and the international economy.

531 US HISTORY SINCE 1877 CP**1 Credit***Course satisfies junior year Social Studies graduation requirement*

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.

532 US HISTORY SINCE 1877 H**1 Credit***Course satisfies junior year Social Studies graduation requirement*

This honors level course offers a more detailed approach to United States history from the end of the 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.

533 US HISTORY AP/UCONN ECE

1 Credit

Course satisfies junior year Social Studies graduation requirement

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. 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. This course fulfills the US History graduation requirement. **Students are required to sign an Enrollment Contract, and take both the US History AP exam (additional fee), and the course exam in May.** *By registering with UCONN (additional fee) students can earn six college credits that may be transferable to colleges and universities throughout the nation.* **Summer reading and assignments are a requirement for this course.**

562 UNITED STATES GOVERNMENT AND POLITICS AP

1 Credit

Course satisfies sophomore year Social Studies graduation requirement or upper-level elective course

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. **Students are required to sign an Enrollment Contract, and take both the US Government and Politics AP exam (additional fee), and the course exam in May.** **Summer course work is assigned prior to the start of the school year.**

573 PSYCHOLOGY AP

1 Credit

Course satisfies junior or senior year Social Studies elective towards graduation

Psychology is the study of human behavior based on social interaction with others. What effect 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 behaviour, including states of consciousness, memory, intelligence, personality theories, behaviour 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 sign an Enrollment Contract, and take both the Psychology AP exam (additional fee), and the course exam in May.** **Summer course work is assigned prior to the start of the school year.**

566 PRINCIPLES OF MACROECONOMICS AP

1 Credit

Course satisfies junior or senior year Social Studies elective towards graduation

This full year course will introduce students to the “behavior” of entire economies. Concepts such as inflation, unemployment, interest rates, money, income distribution, productivity and world trade are examined. To provide real-world application to and understanding of these economic concepts, articles and publications will be utilized from sources such as The Wall Street Journal, Economist Magazine and The Financial Times. **Students are required to sign an Enrollment Contract, and take both the Macroeconomics AP exam (additional fee), and the course exam in May.** *By registering with UCONN (additional fee) students can earn three college credits that may be transferable to colleges and universities throughout the nation.* **Summer reading and assignments are a requirement for this course.**

570 EUROPEAN HISTORY AP/UCONN ECE AP UCONN/ECE**1 Credit***Course satisfies junior or senior year Social Studies elective towards graduation*

This full year course provides students an intensive class in college European History from the period 1500 to the present. Special emphasis is placed on the emergence of the modern state system, the Renaissance and Reformation, the French Revolution, the Industrial Revolution, the World Wars, the Russian Revolution, the Cold War and the Post-Cold War world. Major emphasis will be placed on extended reading and document-based assessments. **Students are required to sign an Enrollment Contract, and take both the Principles of European History AP exam (additional fee), and the course exam in May.** *By registering with UCONN (additional fee) students can earn three college credits that may be transferable to colleges and universities throughout the nation.* **Summer reading and assignments are a requirement for this course.**

580 TRIAL LAW HONORS (Fall Semester)**.5 Credit**

Offered every other year - Offered for Academic Year 2027-2028

*Course satisfies senior year Social Studies elective towards graduation**Prerequisite: None*

This course will center upon torts, contracts, Constitutional Law, property, Civil Procedure, and Criminal Law. This course will run in the fall. Participation in a courtroom simulation is mandatory to receive credit. There is no prerequisite for this Honors course.

581 CRIMINAL JUSTICE HONORS (Spring Semester)**.5 Credit**

Offered every other year - Offered for Academic Year 2027-2028

This course provides 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. This course will focus on two key areas 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.

594 GEOGRAPHY OF NATIONALISM CP (Fall Semester)**.5 Credit**

Offered every other year - Next offering during Academic Year 2026-2027

The geographical distribution of different national groups, both within and between different states, often has a tremendous influence on the political interactions and conflicts in a given region. This course will be an in-depth examination of several case studies involving such geographic interactions between national groups potentially including: the Israeli-Palestinian Conflict, the Rwandan Genocide, the Armenian Genocide, the Kurds in the Middle East, ethnic cleansing in Ethiopia, the Balkans War, Russian control of Chechnya, the Sudanese Civil War, religious turmoil in India, Indian control of Kashmir or the Uighurs in China. Students will play a role in deciding which topics the class will study. A capstone project is required in this class.

554 CONTEMPORARY U.S. ISSUES CP (Spring Semester)**.5 Credit**

Offered every other year - Next offering during Academic Year 2026-2027

Students will make an in-depth analysis of current issues on the 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.

568 AFRICAN AMERICAN/BLACK AND PUERTO RICAN/LATINO STUDIES CP**1 Credit***Course satisfies 1 year Social Studies graduation requirement*

This (full year) course is an opportunity for students to explore accomplishments, struggles, intersections, perspectives and collaborations of African American/Black and Puerto Rican/Latino people in the U.S. Students will examine how historical movements, legislation and wars affected the citizenship rights of these groups; and how they both separately and together, worked to build U.S. cultural and economic wealth, and create more just societies in local, national and international contexts. Coursework will provide students with tools to identify historic and contemporary tensions around race and difference; map economic and racial disparities over time; strengthen their own identity development; and address bias in their communities.” - Course Description taken from SERC - State Education Resource Center Curriculum for Connecticut Public Act No. 19-12p.

WORLD LANGUAGE

How can I change levels from CP to Honors, or Honors to AP?

- Students must earn a final grade of **93** in College Prep to be considered for the Honors pathway, **OR** an **87** in Honors to be considered for the Advanced Placement pathway.
- Students must earn a final grade of **93** in College Prep, **AND** have the approval of the Academic Review Committee to be considered for Advanced Placement courses.
- Students must earn a final grade of **83** in Honors or AP courses to remain on the respective pathway.
- Teacher recommendations are also provided to students in addition to their academic eligibility.

Students should take the same language in consecutive years to satisfy graduation requirements and college admissions recommendations.

319 SPANISH I CP

1 Credit

Placement based on placement test, and previous Spanish courses taken

Course satisfies World Language graduation requirement

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 communicating likes, dislikes and daily activities. In addition to basic greetings, vocabulary topics include talking about the classroom, family, pastimes and hobbies, vacations, and shopping. Students also learn about the commonalities and differences between and among various Hispanic cultures and our own. *Spanish I CP is designed for students with limited to no prior experience.*

312 SPANISH I H

1 Credit

Placement based on placement test, and previous Spanish courses taken

Course satisfies World Language graduation requirement

This two-semester course is designed for the qualified, highly motivated beginner. The four basic skills of listening, speaking, reading, and writing are stressed at an accelerated pace. Students acquire vocabulary and learn grammatical concepts that enable them to communicate effectively. 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. Spanish is used as the medium of instruction as much as possible.

326 SPANISH II CP

1 Credit

Incoming ninth grade placement based on placement test, and previous Spanish courses taken

Course is sequential to Spanish I CP

Course satisfies World Language graduation requirement

This two-semester course reviews and continues to build on the basic grammatical, vocabulary, and syntactical concepts begun in the first year. Using the Level 2 textbook, the students are introduced to several new grammatical concepts. And they learn how to talk and write about past events. Cultural comparisons and contrasts continue to be an important focus. Vocabulary and language structures used in a broader variety of everyday situations will be emphasized and practiced using all four major language skills.

322 SPANISH II H

1 Credit

Incoming ninth grade placement based on placement test, and previous Spanish courses taken

Course is sequential to Spanish I H

Course satisfies World Language graduation requirement

This two-semester course reinforces and builds upon previously learned skills working in pair and group activities. Students will practice new vocabulary and language structures used in many everyday situations. Grammatical structures will be presented with greater emphasis on reading and writing skills, and recognition of vocabulary and terminology. Cultural aspects of the Spanish-speaking world are explored and presented. Students are expected to maintain an accelerated pace and use all four modes of communication. Spanish is used as the medium of instruction and communication as much as possible.

332 SPANISH III H

1 Credit

Course is sequential to Spanish II H

Course satisfies World Language graduation requirement

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. Oral communication skills are stressed while students practice and master more complicated grammatical structures. More challenging 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.

341 SPANISH IV H

1 Credit

Course is sequential to Spanish III H

Course satisfies World Language graduation requirement

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 auditory and oral exposure to the language as well as more complex grammatical structures in writing assignments. Art and culture are explored and applied on in-depth levels to new material learned. All class activities use the Spanish language as the primary vehicle for communication.

373 AP SPANISH LANGUAGE AND CULTURE

1 Credit

Course is sequential to Spanish IV H or Spanish IIIH with teacher recommendation and chair approval

Course satisfies World Language graduation requirement

AP Spanish Language and Culture is equivalent to an intermediate level college course in Spanish. Students cultivate their understanding of Spanish Language, Art, and Culture by applying interpersonal, interpretive and presentational modes of communication in real-life situations as they explore concepts related to family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life and global challenges. **Students are required to sign an Enrollment Contract, and take both the Spanish Language and Culture AP exam (additional fee), and the course exam in May.**

313/314 FRENCH I CP/H**1 Credit**

Incoming ninth grade placement based on placement test, and previous French courses taken
Course satisfies World Language graduation requirement

Students are introduced to the skills of understanding basic spoken French, expressing their own ideas in understandable French on topics studied in class, and reading about essential concepts accurately. Vocabulary is student-centered and focuses on themes such as friends, family, shopping, food, and daily activities. In addition to building grammar and vocabulary foundations, students engage with rich cultural content through a variety of authentic materials, including a monthly youth magazine, 1Jour1Actu, TV5Monde clips, and the Manie Musicale music competition. Cultural celebrations and hands-on experiences such as a field trip to a French culinary class, a buche de Noel competition, and a Mardi Gras crepe party introduce students to Francophone traditions. Participation in National French Week and a penpal exchange program broadens understanding of the Francophone world. Students are also encouraged to participate in Le Grand Concours, a nationally recognized French competition. Even at the introductory level, taking part helps students build confidence, track their early language-learning progress, and gain experience in a respectful academic event.

323/324 FRENCH II CP/H**1 Credit**

Course is sequential to French I CP/H
Course satisfies World Language graduation requirement

Students continue their study of French culture and language by expanding their mastery of past tenses and exploring more advanced grammar concepts. Additional vocabulary related to daily life, community, travel, celebrations, and personal interests broaden their ability to communicate with increasing precision. Continued emphasis on accurate pronunciation supports students as they increase greater fluency. Cultural engagement remains a central part of the course by focusing on a deeper understanding of Francophone tradition. Hands-on cultural experiences allow students to apply language skills in meaningful, real-world texts. Students are also invited to participate in Le Grand Concours, the national French competition sponsored by the American Association of Teachers of French. Performing well in this highly regarded contest strengthens students' academic profiles and provides an early accomplishment that can benefit future resumes and university applications.

333/334 FRENCH III CP/H**1 Credit**

Course is sequential to French II CP/H
Course satisfies World Language graduation requirement

Students are challenged to deepen their listening comprehension abilities as their confidence and fluency in French continue to grow. Longer readings, frequent short writing assignments, and the daily use of French as the primary language of communication are central pillars to the course. Students expand their command of grammatical structures as they are introduced to the remaining non-literary indicative tenses and the subjunctive mood, gaining the tools needed to respond effectively in a wide range of situations. This course is enriched through extensive use of authentic materials, including news articles, short literary selections, and film, as well as digital content. Students are asked to participate in Le Grand Concours, the national French competition sponsored by the American Association of Teachers of French. Performing well in this highly regarded contest strengthens students' academic profiles and provides an early accomplishment that can benefit future resumes and university applications. These cultural and academic experiences complement the linguistic curriculum, allowing students to connect higher level language study with meaningful real-world cultural practices and achievements.

376 AP FRENCH LANGUAGE AND CULTURE

1 Credit

Course is sequential to French IIIH with teacher recommendation and chair approval

Course satisfies World Language graduation requirement

AP French Language and Culture is equivalent to an intermediate level college course in French. Students cultivate their understanding of French language, art, and culture by applying interpersonal, interpretive and presentational modes of communication in real-life situations as they explore concepts related to family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life and global challenges. **Students are required to sign an Enrollment Contract, and take both the French Language and Culture AP exam (additional fee), and the course exam in May.**

361 CHINESE I CP

1 Credit

Course satisfies World Language graduation requirement

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, videos, and games keep students interested, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress.

362 CHINESE II CP

1 Credit

Course is sequential to Chinese I CP

Course satisfies World Language graduation requirement

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.

366 CHINESE III H

1 Credit

Course is sequential to Chinese II CP

Course satisfies World Language graduation requirement

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. This 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 culture, including the origins, histories, anecdotes, and etiquettes for various cultural settings, events and occasions. Students also learn to compare and contrast Chinese culture with their own cultures in many different aspects.

364 CHINESE IV H**1 Credit***Course is sequential to Chinese III H**Course satisfies World Language graduation requirement*

Continuing and reinforcing the work done in level III, students develop increased fluency of the spoken language and literary skills. Research and history of Chinese culture is enhanced. Chinese is used as the medium of instruction as much as possible.

347 AMERICAN SIGN LANGUAGE (ASL) I CP**1 Credit***Course satisfies World Language graduation requirement*

This two-semester course is an introduction to basic grammatical concepts, vocabulary, and Deaf culture. Everyday communication is the centerpiece of every lesson. Topics revolve around sharing information about our environment and us. Grammar is introduced in context, with an emphasis on developing question and answering skills. Students will learn conversational strategies to help maintain a conversation. Interaction activities allow you to rehearse what you've learned.

348 AMERICAN SIGN LANGUAGE (ASL) II CP**1 Credit***Course is sequential to ASL I**Course satisfies World Language graduation requirement*

This two-semester course reviews and continues to build on the basic grammatical, vocabulary, and cultural concepts begun in the first year. ASL II is an interactive course that expands on the students' ability to communicate in ASL through classroom instruction and participation. The course explores all aspects of the language, including mechanics and culture.

371/372 AMERICAN SIGN LANGUAGE (ASL) III CP/H**1 Credit***Course is sequential to ASL II**Course satisfies World Language graduation requirement*

This two-semester course reviews and continues to build on the basic grammatical, vocabulary, and cultural concepts begun in the first and second year. ASL III is an interactive course which focuses on expanding the students' ability to communicate in ASL through classroom instruction and participation. The course will explore all aspects of the language, including mechanics and culture. This course will also provide students with the skills to communicate in a wider array of situations, to further develop their language fluency and to advance their level of comprehension of ASL in culturally appropriate ways.

FINE ARTS

How can I change levels from CP to Honors, or Honors to AP?

- Students must earn a final grade of **93** in College Prep to be considered for the Honors pathway, **OR** an **87** in Honors to be considered for the Advanced Placement pathway.
- Students must earn a final grade of **93** in College Prep, **AND** have the approval of the Academic Review Committee to be considered for Advanced Placement courses.
- Students must earn a final grade of **83** in Honors or AP courses to remain on the respective pathway.
- Teacher recommendations are also provided to students in addition to their academic eligibility..

VISUAL ARTS PATHWAY

750 INTRODUCTION TO ART CP

1 Credit

Course satisfies Fine Arts graduation requirement

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.

752 3-D SCULPTURE AND DESIGN CP (Offered in Even Years)

1 Credit

Students must complete Introduction to Art or have approval of the Academic Review Committee to enroll in this course.

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 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.

751 DRAWING AND PAINTING CP (Offered in Odd Years)

1 Credit

Students must complete Introduction to Art or have approval of the Academic Review Committee to enroll in this course.

Students will focus on creating artwork on the two-dimensional (2-D) plane. This 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 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.

780 PORTFOLIO DEVELOPMENT/INDIVIDUAL STUDY H (junior/senior elective)**1 Credit**

Students must complete Drawing & Painting, 3-D Sculpture or Graphic Design and approval of the instructor to enroll in this course.

This course is designed for students who want to continue their art education beyond high school. 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.

707 AP ART & DESIGN PORTFOLIOS (2D, 3D, Drawing)**1 Credit**

Course satisfies Fine Arts graduation requirement

This course is designed for students who want to pursue AP credits for college in 2D, 3D, or Drawing. Students submit up to 20 images, including process photos. Emphasis is on personal exploration of materials, processes and ideas, culminating in a portfolio that shows evidence of critical thinking through art making. **Students are required to sign an Enrollment Contract, and take both the AP exam (additional fee), and the course exam in May.**

GRAPHIC ARTS PATHWAY

700 GRAPHIC DESIGN I CP

1 Credit

Course satisfies Fine Arts graduation requirement

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 details related to graphic design, computer applications, 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.

716 GRAPHIC DESIGN II H

1 Credit

Students must complete Graphic Design I or have the approval of the instructor

Course satisfies Fine Arts graduation requirement

Graphics 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.

724 VISUAL DESIGN ECP (Graphics III)

1 Credit

Students must complete Graphic Design II

Course satisfies Fine Arts graduation requirement

This is a college level course introducing students to more advanced design processes by using Adobe software for digital image creation and editing, typesetting and typography, page layout and design in preparation for advanced coursework. Students produce course projects that demonstrate creativity, design concepts, critical thinking, aesthetic principles and basic technical competence. *ECP credit from Quinnipiac University (additional fee required).*

634 YEARBOOK DESIGN H

1 Credit

Students must complete up to Visual Communications ECP prior to enrolling in this course

Course satisfies Fine Arts graduation requirement

This full year course will oversee the design of the major selections of the yearbook and support the design of posters and promotional materials for school activities and events. It is an independent study course for Advanced Graphics students who intend to pursue a career in design or related business/art field. Students will identify an area for improvement and work to obtain an increased implementation of their knowledge.

705 INTRODUCTION TO ENGINEERING DESIGN H

1 Credit

Students must be enrolled or have completed Geometry to enroll in this course

Course satisfies Career & Technology graduation requirement

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.

INSTRUMENTAL PERFORMANCE PATHWAY

776 BEGINNING PIANO CP

1 Credit

Course satisfies Fine Arts graduation requirement

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.

778 BEGINNING PIANO 2 CP

1 Credit

Students must complete Beginning Piano to enroll in this class

Course satisfies Fine Arts graduation requirement

Piano 2 is for students looking to progress further in their piano playing. It is open to students who have completed Beginning Piano as well as to 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.

711 ENSEMBLE AND MUSIC WRITING CP

1 Credit

Student must audition with the instructor for approval to register for this course

Course is open to sophomores, juniors, and seniors

Course satisfies Fine Arts graduation requirement

This course is audition-based and is open to students in grades 10-12 that have instrumental backgrounds with a particular instrument. Students will learn/perform ensemble music from different genres including classical music, as well as work on their own compositions for the class. Music writing will also include basics of songwriting, sound processing, and editing through Digital Audio Workstations in the recording studio.

CHORAL MUSIC & PRODUCTION PATHWAY

749 MIXED CHORUS CP

1 Credit

Course satisfies Fine Arts graduation requirement

This course is a prerequisite for all other Chorus classes

This is a year-long course offered to current and aspiring singers in grades 9-12, regardless of previous choral experience. We explore vocal technique and sing through a range of musical genres. Students in the class will be expected to participate in our annual Christmas concert and spring musical showcase as well as school Masses. Student participation in school Masses is expected and factored into student participation grades.

762 CONCERT CHOIR I CP**1 Credit***Students must complete Mixed Chorus to enroll in this class*

This is a year-long, upper-level performance opportunity offered to experienced music students who are accomplished in vocal performance. Students will continue to develop their vocal technique and musicianship. In addition to class repertoire, students are expected to prepare for and participate in the Western Region Concert Chorus auditions. Additionally, this group sings at various events and school Masses throughout the school year, including concerts at school and in our community. Student participation in school Masses is expected and factored into student participation grades.

708 CONCERT CHOIR II CP**1 Credit***Students must complete Mixed Chorus and Concert Choir I to enroll in this class*

This class is a year-long course offered to students as a continuation in the choral sequence. Strong emphasis is placed on furthering vocal technique and musicianship. Singers will be expected to audition for the Western Region Concert Chorus as individuals, but this group will also compete as a group in a regional chorus competition as well as actively participate in school Masses. Student participation in school Masses is expected and factored into student participation grades.

709 CONCERT CHOIR III H**1 Credit***Students must complete Mixed Chorus and Concert Choirs I and II to enroll in this class*

This class is a year-long course offered to both male and female students who have an interest in pursuing music in college. The class will be performance oriented, but students will have an opportunity to direct musical pieces, lead small group vocal rehearsals and lead class vocal warm-ups. Elements of musical theater will be integrated into the class with choreographed songs and dances. Students will earn a variety of genres of music. Honors Chorus will participate in a regional chorus competition. Introduction to Music Theory will be part of this class. Student participation in school Masses is expected and factored into student participation grades.

785 MUSICAL THEATER H (junior/senior elective)**1 Credit***Course satisfies Fine Arts graduation requirement*

Provides comprehensive overview for students interested in pursuing a concentration in musical theater and stage production in college. Coursework focuses on acting, singing, and diverse musical theater styles from operetta through rock. Includes anatomical and musical terms, voice classes, training, and performance in directing scenes and musical productions. Assessment is based on participation, performance, and knowledge of course material including storytelling through voice, improvisation, history of the American musical, analysis of Broadway productions, and a project-based production assignment.

CAREER AND TECHNOLOGY

How can I change levels from CP to Honors, or Honors to AP?

- Students must earn a final grade of **93** in College Prep to be considered for the Honors pathway, **OR** an **87** in Honors to be considered for the Advanced Placement pathway.
- Students must earn a final grade of **93** in College Prep, **AND** have the approval of the Academic Review Committee to be considered for Advanced Placement courses.
- Students must earn a final grade of **83** in Honors or AP courses to remain on the respective pathway.
- Teacher recommendations are also provided to students in addition to their academic eligibility.

631 MICROSOFT DIGITAL SKILLS: FOUNDATIONS FOR CERTIFICATION CP

1 Credit

(freshman/sophomore elective)

There is no prerequisite for this course

Course satisfies Career and Technology course requirement towards graduation

This course is designed as an introduction to modern digital skills and prepares students for success in academic and professional environments. Emphasizing Microsoft technologies, students will develop proficiency and computer literacy in productivity tools, digital communication and foundational technology skills. The course aligns with the Microsoft Office Specialist (MOS): Associate Certification, which provides students with the knowledge and practice needed to succeed in Word, Excel, and PowerPoint.

632 INTRODUCTION TO GAME DESIGN AND DEVELOPMENT

.5 Credit

(sophomore/junior/senior elective)

There is no prerequisite for this course

Course satisfies .5 Technology credits towards graduation requirements

This one semester course introduces students to the fundamentals of game design and development using Roblox Studio. Students explore how games are designed, built, and tested while learning basic programming concepts with the Lua language. The course also introduces 3D environments, object interaction, and simple game mechanics. By the end of the course, students will design and create an original interactive game, gaining an understanding of both the creative and technical aspects of game development.

633 PODCAST PRODUCTION 101 CP (sophomore/junior/senior elective)

.5 Credit

Offered every other year - Offered for Academic Year 2027-2028

There is no prerequisite for this course

Course satisfies .5 Technology credits towards graduation requirements

Course satisfies Technology requirement towards graduation when paired with INTRODUCTION TO GAMING DESIGN

Utilizing the Immaculate High School Recording Studio, students will learn the fundamentals of podcast production and distribution. The purpose, process and execution of a successful podcast will be emphasized throughout the year along with a stress on factual research and proper public speaking skills. Multiple topics will be tackled throughout the year including discussions and projects about financial markets, “movers and shakers” in the business world, sports highlights, news, etc. Student edited work will be submitted for upload to the Immaculate website for audience listening. A final hour-long podcast will be submitted at the end of the semester to showcase the development each student has made. A USB flash drive will be required for this course.

638 INTRODUCTION TO JAVA PROGRAMMING (sophomore/junior/senior elective)**.5 Credit**

Offered every other year - Offered for Academic Year 2026-2027

There is no prerequisite for this course

Course satisfies .5 Technology credits towards graduation requirements

Course satisfies Technology requirement towards graduation when paired with INTRODUCTION TO GAMING DESIGN

This course introduces students to text-based computer programming using the Java programming language. Students learn foundational programming concepts such as variables, data types, conditional statements, loops, and basic input/output while writing and running real Java programs. Emphasis is placed on logical thinking, problem solving, and understanding how programs are structured. By the end of the course, students will be able to design, write, and debug simple Java applications, providing a strong foundation for future computer science courses.

601 COMPUTER SCIENCE AP (junior/senior elective)**1 Credit**

Prerequisite: Students must be enrolled in any Honors or AP Math class

Course satisfies Career and Technology course requirement

Offered every other year: 2026-2027

AP Computer Science is equivalent to a first-semester, college-level course in computer science. This 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. This course emphasizes object-oriented and imperative problem solving and design using Java language. The AP Computer Science course curriculum is compatible with many CS1 courses in colleges and universities. **Students are required to sign an Enrollment Contract, and take both the Computer Science AP exam (additional fee), and the course exam in May.**

623 INTRODUCTION TO BUSINESS AND MARKETING CP (sophomore/junior/senior elective)**1 Credit**

Course satisfies Career & Technology graduation requirement

To succeed as a business professional, students need a range of specific skills and training. This 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 behaviour, 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 problem-solving, role-playing critical thinking, project development, and business strategies.

636 BUSINESS COMMUNICATIONS AND ETHICS H (junior/senior elective)**.5 Credit**

Prerequisite: Student must have taken Introduction to Business and Marketing CP and received a grade of an A

This semester course explores how business leaders make responsible and ethical decisions in a world increasingly shaped by artificial intelligence (AI). Students study business communication, leadership styles, ethical frameworks, and real-world case studies to understand how technology challenges traditional business communication and practices. Through discussion, scenario analysis, and projects, students will develop the skills to lead with integrity in an AI-driven business environment.

637 BUSINESS LAW AND NEGOTIATIONS H (junior/senior elective)**.5 Credit**

Prerequisite: Student must have taken Introduction to Business and Marketing CP and received a grade of an A

This semester course provides an in-depth exploration of the legal principles and strategic skills essential for navigating the business world. Students will examine contracts, corporate governance, employment law, intellectual property, and regulatory compliance, while developing analytical thinking, critical thinking, and problem-solving skills necessary to assess legal risks and opportunities. The course emphasizes negotiation techniques, including dispute resolution, deal structuring, and strategic decision-making, preparing students to make informed, legally sound choices and achieve optimal outcomes in complex business scenarios.

650 PERSONAL FINANCE AND FINANCIAL LITERACY CP**.5 Credit**

Course satisfies Senior Seminar graduation requirement

This one semester senior seminar course 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.

626 SPORTS AND ENTERTAINMENT MANAGEMENT CP (junior/senior elective)**.5 Credit**

Course satisfies Career & Technology graduation requirement

This course gives students a fundamental understanding of the business and marketing landscape of the ever-changing sports and entertainment industry. Encompassed in this course are points such as event and facility management, business to business marketing, social media, branding, law, and many more. Utilizing the understanding of ethical and moral standards in the business decision making process will be covered. Students will experience the responsibility of developing a major project, research endeavor, or business plan.

622 PRINCIPLES OF ACCOUNTING H**1 Credit**

Course satisfies Career & Technology graduation requirement

This course provides students with a comprehensive introduction to the principles of accounting. Students will explore why accounting is considered the language of business. Students will learn how accurate accounting records are essential for business entities to stay profitable and thrive. Topics such as the accounting equation, the accounting cycle, journal entries and adjustments, the creation of financial statements, and ethics in accounting will be examined in detail. This course is ideal for any student considering a career in Business or Finance.

630 YEARBOOK PRODUCTION CP (junior/senior elective)**1 Credit**

Course satisfies Career & Technology graduation requirement

This full year course will focus on the production and distribution of the Immaculate High School yearbook. No graphic design experience is necessary for this class. Students will take pictures, layout pages, write copy, sell ad space, and market the sale of the yearbook to students.

612 GRAPHIC DESIGN I CP**1 Credit***Course satisfies Career & Technology graduation requirement*

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 details 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.

ENGINEERING PATHWAY

620 INTRODUCTION TO ENGINEERING DESIGN H

1 Credit

Students must be enrolled or have completed Geometry to enroll in this course

Course satisfies Career & Technology graduation requirement

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.

621 PRINCIPLES OF ENGINEERING H

1 Credit

Students must complete Introduction to Engineering Design or be approved by the Academic Review Committee to enroll in this course

Course satisfies Career & Technology graduation requirement

Offered every other year: Offered in 2026-2027

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 engineering problem solving.

625 CIVIL ENGINEERING AND ARCHITECTURE H

1 Credit

Students must complete Principles of Engineering or the approval of the Academic Review Committee to enroll

Course satisfies Career & Technology graduation requirement

Offered every other year: Offered in 2027-2028

This is a full year high school course level from Project Lead the Way Engineering Track. Students learn the fundamentals of building design, site design, and development. They apply math, science and standard engineering practices to design both residential and commercial projects and document their work using 3D architectural design software.