

Salesian High School
Course Booklet 2018-2019



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www.salesianhigh.org

CEEB Code 333375

GRADUATION REQUIREMENTS

Required credits:

- 4.5 credits of English
- 4 credits of Religious Studies
- 4 credits of Mathematics
- 5 credits of Social Studies
- 2 credits of Physical Education
- 3 credits of Science
- 3 credits of Elective choices
- 3 credits of Foreign Language
- 1 credit of Art/Music
- .5 credits of Health

Rank in Class: At the end of each semester, a student receives a ranking based on an adjusted career grade average. Rank is weighted. All courses, with the exception of Physical Education and Band are ranked. Weighting Numerical grades are weighted to reflect the degree of academic difficulty: Honors, 1.04; Iona College Link Courses (Political Science), Advanced Placement Courses, 1.06.

GPA:

NUMERICAL	GRADE	POINTS
97-100	A+	4.33
93-96	A	4.00
90-92	A-	3.67
87-89	B+	3.33
83-86	B	3.00
80-82	B-	2.67
77-79	C+	2.33
73-76	C	2.00
70-72	C-	1.67
68-69	D+	1.33
66-67	D	1.00
65	D-	.67
64	F	.00

STUDENT SCHEDULING

Course planning and selection is a process that merits careful thought and investigation before making final choices. The decisions you make are extremely important for your next step into college as well as for your future direction in life. In an effort to guide all SHS students to their highest potential, the faculty members in all departments have assigned pre-requisites to most courses. This process has been completed with great care and experience. You should seek the advice of your teachers, your parents and your guidance counselor to help you understand the available options and to help you make responsible and realistic choices.

Once the master schedule is complete, schedule changes will be allowed on a very limited basis. The Director of Guidance in consultation with the Assistant Principal for Academics must approve all schedule change requests. Schedule change requests **ARE NOT** guaranteed. These requests will require parent permission and may require teacher permission and administrative approval.

RELIGION

Course Title: Religion 9 (001)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 9

Prerequisite: none

Description:

Part One: Fundamentals of the Catholic Faith, **Part Two:** Revelation & Scripture

Part One: This course is designed to give students who are new to SHS and perhaps also to Catholic school in general, a basic understanding of Catholicism. *Part Two of the course:* This course continues the introduction to the Catholic Faith by examining the Scriptures and showing the student how to read them with understanding and profit.

Course Title: Religion 10 (002)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 10

Prerequisite: Religion 9

Description:

Part One: Christian Morality, **Part Two:** Sacraments

Part One: This course teaches the basics of Christian morality and ethical teaching based on the Bible and teachings of the Catholic Church. Moral issues facing the students are discussed. *Part Two:* This course shows the students how Christ is present and active in his Church through sacramental signs.

Course Title: Religion 11 (003)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 11

Prerequisite: Religion 10

Description: **Part One:** The Paschal Mystery, **Part Two:** Church History

Part One: This course “unpacks” the meaning of God's sacred and mysterious plan from creation, onward to the consequences of the fall and the promise of a Savior, while ultimately focusing on the Life, Passion, Death, and Resurrection of Jesus Christ. *Part Two:* The goal of this course is to change the lives of students by making real-life connections between what they are learning about the Church and how they encounter Jesus in the contemporary world.

Course Title: Current Issues in Sociology (012)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 12

Prerequisite: Religion 11

Description:

Part One: Catholic Social Teaching, **Part Two:** Vocations (Apologetics)

Part One: After reviewing the basics of Catholic morality, this course gives an overview of the Church's social teaching based on the 7 themes of the US Bishops' Conference. *Part Two:* After a general introduction on how God has called and does call today, students will examine the different Christian vocations in the Church and how they can fulfill God's plan. Seniors conclude their study of religion with a short “mini-course” on defense of the Faith.

ENGLISH

Course Title: English 9 (102)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 9

Prerequisite: Requirement for all freshmen. Placement determined by TACHS score and/or Salesian High School Scholarship Exam and/or elementary/middle school grades.

Description: This course is designed to read all genres of literature with the understanding of characterization, theme, plot, symbolism, etc. Students will read and interpret literature, improve writing, listening and oratory skills. The literature is part of Salesian's American Studies Program and covers American Literature from Pre-Colonial through Colonial America 1451-1700 through Literature of The Revolutionary Period 1700-1800. The text used in class will alternate with American Literature previously described and core freshmen texts. Students will be introduced to the questioning and writing style of the NYS ELA Regents Students will also work with research based writing, writing from sources and be taught the foundation of research skills when it comes to determining credible sources. A midterm and final exam are required for successful completion of the course.

Course Title: English 9 Plus (103)

Term: Full Year

Credit: 1.00

Weight: 1.02

Grade: 9

Prerequisite: Placement into honors program determined by TACHS score and/or Salesian High School Scholarship Exam data and/or elementary/middle school grades.

Description: In this accelerated English 9 class, students will improve their reading skills, especially in vocabulary, attention to detail, identifying theme and tone and analyzing the effect of literary techniques on meaning. The

writing will focus on content, organization, style, complex sentence structure and other conventions. Writing will primarily be research based and interpretive. To develop communication skills students will practice discussion techniques and presentation projects in oral, written and visual formats to share their learning with others. Like English 9 this program encompasses the American Studies Program, Pre-Colonial and Colonial America 1451-1700 through Literature of The Revolutionary Period 1700-1800 and will alternate with core Freshman Literature. Students will also be introduced to the questioning and writing that makes up the NYS ELA Regents. A midterm and final exam are required for successful completion of the course.

Course Title: Freshman Writing (120)

Term: Half Year

Credit: 0.5

Weight: 0.5

Grade: 9

Prerequisite: *Requirement for all freshmen*

Description: This course is designed to involve students in the writing process. Pre-writing exercises, responses and revisions of the essay structure will be emphasized. Students will apply this method to formulate various narratives, descriptive, expository and persuasive essays. The course will also act as further instruction in researching and finding credible sources in the databases and the internet, researched based writing, writing from sources and the MLA documentation format style of writing. The course will cover basic grammar and writing style and focus on adjusting freshmen to high school by covering organization and study skills.

Course Title: Social and Study Skills (101)

Term: Half Year

Credit: 0.5

Weight: 0.5

Grade: 9

Prerequisite: Placement is determined by TACHS score and/or Salesian High School Scholarship Exam data and/or elementary/middle school grades.

Description: This course is required for all incoming students who are placed in the pre-algebra course. The course will cover social and study skills to help students become academically successful. Classroom etiquette, note-taking skills and study techniques will be covered.

Course Title: English 10 (106)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 10

Prerequisite: English 9, *required course for sophomores.*

Description: In the English 10 course for sophomores, students build upon skills taught in English 9. The course builds on writing skills to be used across the curriculum, researched based writing skills and preparation for the English Language Arts NYS Regents exam taken mid-junior year. The literature content of the course diversely spans 19th century American Literature from the Romantic period through 1860. It also covers World Literature and core Young Adult novels. The course is broken into units of prose, drama and poetry, while using the literature to enhance students' reading skills along with their ability to write from and about each text. The course also offers SAT and ACT preparation in reading comprehension and vocabulary skills. English 10 works on multiple cross curriculum projects and activities with the History and Art departments. A midterm and final exam are required for successful completion of the course.

Course Title: English 10 Honors (104)

Term: Full Year
 Credit: 1.00
 Weight: 1.02
 Grade: 10

Prerequisite: *Required course for Sophomore Honors Scholars.* Eng 9+ students may enter if they have achieved a final average of an 85 or better. Non Plus students may enter if they achieved a 90 as a final average in English 9, as well as positive behavioral and academic recommendations from Administration, English 9 instructor and guidance department.

Description: In the English 10 Honors course for sophomores, students build upon skills taught in English 9+. The course builds on writing skills to be used across the curriculum, researched based writing skills and preparation for the English Language Arts NYS Regents exam taken mid-junior year. Students will also be introduced to the rhetorical strategies and other skills needed to succeed on the AP Language and Composition exam taken in May of junior year and the AP Literature and Composition exam taken in May of senior year. The literary content of the course diversely spans 19th century American Literature from the Romantic period through 1860. It also covers World Literature and core Young Adult novels. Honors tracked students are exposed to the same literature at times as the non-honors level, are subject to extra, large text readings and the difficulty level of the readings are appropriate for an honors level class. The course is broken into units of prose, drama and poetry, while using the literature to enhance students' reading skills along with their ability to write from and about text. The course also offers SAT and ACT preparation in reading comprehension and vocabulary skills. English 10 honors works on multiple cross curriculum projects and activities with the history and art departments. A midterm, final exam and term paper are required for successful completion of the course.

Course Title: American Literature (110)

Term: Full Year
 Credit: 1.00
 Weight: 1.00
 Grade: 11

Prerequisite: Completion of English 10

Description: This is a chronological overview of American Literature from 1860-Present Day, covering the political, social, economic and cultural changes that have occurred during the decades in American society. The course also focuses on the writers of such times and their reactions and literary responses to the ever changing landscape of America in this formative period (from Realism to the Contemporary) across all genres of literature. The course builds on skills learned from English 10 as well as ELA Common Core Regents preparation; students will take the NYS Regents exam in January in place of a Midterm Exam.

Students are exposed to S.A.T. Preparation, Strategies and Test Taking Skills and Vocabulary and Comprehension Enrichment. There are three research-based writing assignments and college level in-class essay writing assignments. Student will also learn and work with Rhetorical Strategy usage in all writing assessments throughout the course. Students will be assigned research papers. Students will spend the 2nd and 4th quarters working on the research paper assignments by implementing the writing process skills established starting in freshmen year. The course also coordinates cross curricular activities with the History, Civil Liberties and Art Departments. Successful completion of a Final Exam is required.

Course Title: AP Language and Composition / American Literature (111)

Term: Full Year
 Credit: 1.00
 Weight: 1.06

Grade: 11

Prerequisite: *Required Course for Honors Scholars*. English 10 Honors students may enter if they achieved an 85 as a final average in English 10 Honors. Non honors students may enter if they achieved a 90 or above as a final average in English 10, as well as positive behavioral and academic recommendations from Administration, English 10 instructor and guidance department.

Description: This course will provide students with the intellectual challenges and workload consistent with a typical undergraduate English Literature class. At the culmination of the course, the students will take the AP English Language and Composition Exam given in May. Based on their scores, they may be granted advanced placement, college credit, or both at colleges and universities throughout the United States. The course is a chronological overview of American Literature from 1860-Present Day, covering the political, social, economic and cultural changes that have occurred during the decades in American society. The course also focuses on the writers of such times and their reactions and literary responses to the ever changing landscape of America in this formative period (from Realism to the Contemporary) across all genres of literature. The course builds on Skills learned from English 10 as well as ELA Common Core Regents preparation; students will take the exam in January in place of a Midterm Exam.

Students are exposed to S.A.T. Preparation, Strategies and Test Taking Skills and Vocabulary and Comprehension Enrichment. There are three research-based writing assignments and college level in-class essay writing assignments. Student will also learn and work with Rhetorical Strategy usage in all writing assessments throughout the course. Students will be assigned research papers. Students will spend the 2nd and 4th quarters working on research paper assignments by implementing the writing process skills established starting in freshmen year. The course also coordinates cross curricular activities with the History, Civil Liberties and Art Departments. The AP course also will analyze from a close reading perspective the literary texts more than the non-honors American Literature course and different texts that are more complex. Students in AP Language and Composition will also spend the year preparing for the AP exam given in May. *Students are required to take the Advanced Placement examination which requires an additional testing fee.*

Course Title: World Literature (115)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 12

Prerequisite: By recommendation only.

Description: Students will be introduced to a selection of global contemporary and classical literary works. One of the goals of the class is to analyze and discuss the works in their respective socio-historical contexts, with special focus on the theme of encounter, the coming together of two or more things, ideas or people (for example, civil rights activists deliberately encountered segregation so they could protest it). Furthermore, the impact of various factors such as class, race, gender, generation, and religion will be taken into consideration in our discussions. Students will improve their reading, speaking, listening, writing, studying, viewing, and thinking skills and become increasingly autonomous learners through cooperative literature circles, student-led classes and choice book units. A Midterm and Final Exam are required for successful completion of this course.

Course Title: British Literature (114)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 12

Prerequisite: Required course for all non-honors track seniors

Description: “The Mother Tongue; the Evolution of the English Language from 700 A.D. to the Present Era”. This is a chronological and comprehensive study of the history of the English language and the growth of such, evidenced over the last 1300 years or so in the myriad writers from the Anglo Saxons to the Contemporary writers of today across all genres of literature. The course builds on the skills learned in the previous three years of English / ELA courses. Students will be required to write six research based assignments throughout the year, stressing the writing process that students have been previously exposed to and enforcing the research skills students have worked with throughout their careers here at Salesian. The course will also focus on college level in-class writing assignments. A midterm, final exam and term paper are required for successful completion of the course.

Course Title: AP Literature and Composition (112)

Term: Full Year
 Credit: 1.00
 Weight: 1.06
 Grade: 12

Prerequisite: *Required Course for Honors Scholars.* Honors students must have an 85 as a final average in AP English Language and Composition or American Literature Honors. Non honors students may enter if they achieved a 90 or above as a final average in American Literature, as well as positive behavioral and academic recommendations from Administration, English 11 instructors and guidance department

Description: This is an AP English Literature and Composition course offered to seniors. Students in this College-level course read and carefully analyze, British, European, American and Multicultural literature written in a variety of time periods and genres. This course will provide students with the intellectual challenges and workload consistent with a typical undergraduate English Literature class. At the culmination of the course, the students will take the AP English Literature and Composition Exam given in May. Based on their scores, they may be granted advanced placement, college credit or both at colleges and universities throughout the United States. This course is designed to focus on critical and analytical thinking skills through various forms of literature. Emphasis will be placed on writing skills in conjunction with the materials that will be read. It is designed to focus on critical and analytical thinking skills through the various forms of literature, with a major concentration on the novel. The genre of short fiction, poetry, drama, the novel and the essay will be read, analyzed and interpreted through class discussions and writing assignments. The course also requires a midterm exam and a final researched based paper for successful completion.

Students are required to take the Advanced Placement examination which requires an additional testing fee.

Course Title: Communications and Media (116)

Term: Full Year
 Credit: 1.00
 Weight: 1.00
 Grade: 12

Prerequisite: None

Description: This course will emphasize the importance of communication and concise writing for college and the work place. Students will study the writing and copy editing used in journalism as well as public speaking through the art of reporting. Students will learn the important role that body language plays in formal communication and how vital the correct usage of computer technology and video can be to communication especially in the news broadcasting industry. A midterm and final exam are required for successful completion.

Course Title: Modern Life Through the Media (122)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 12

Prerequisite: None

Description: Students will study modern and post-modern social theorists, reviewing contemporary topics including urbanization, consumerism, industrialization, and the rise of the Digital Age. Students will explore these trends and their impact on everyday life through essays, debates, and projects, using the philosophical lenses each theorist offers to explore and understand how the foundations of society have changed. Students will have a deeper understanding of the inner workings of human nature, and how it is transformed both positively and negatively in an overly industrialized environment.

Course Title: ENG 120 Communication Skills – Writing 1 (Iona College Link) (113)

Term: Fall

Credit: 0.5

Weight: 1.06

Grade: 12

Prerequisite: Students must have achieved an 85 in the previous (11th grade) Honors or AP English course. Non Honors students must have achieved a 90 in the previous (11th grade) English course, as well as positive behavioral and academic recommendations from American Literature instructors and guidance dept.

Description: An introduction to the principles of correct and effective composition, requiring frequent writing assignments, analysis of prose, and the study of research techniques. Students must take ENG 120 and ENG 213. Iona College grants 3 college credits for this course. **Iona college fee applies for this course.**

Course Title: ENG 213 Transformations (Iona College Link) (117)

Term: Spring

Credit: 0.5

Weight: 1.06

Grade: 12

Prerequisite: Students must have achieved an 85 in the previous (11th grade) Honors or AP English course. Non Honors students must have achieved a 90 in the previous (11th grade) English course, as well as positive behavioral and academic recommendations from American Literature instructors and guidance dept.

Description: Students will be introduced to the broad outlines of the English literary tradition through an encounter with texts drawn from multiple periods of English literary history, as well as be exposed to the dialogue between the Western and non-Western literary traditions. The course introduces the student to a selection of texts that, in one way or another, take choice as their subject. The course will focus on the transformation of genres, themes and ideas as a result of these conversations, while paying special attention to how that conversation in the West has responded to new voices.

Students must take ENG 120 and ENG 213. Iona College grants 3 college credits for this course. **Iona college fee applies for this course.**

MATH

Course Title: Pre-Algebra (325)

Term: Half Year

Credit: 0.5

Weight: 0.5

Grade: 9

Prerequisite: Placement based on TACHS scores and/or Salesian High School Scholarship Exam and/or Elementary/Middle School grades.

Description: The purpose of this course is to provide an improved mathematical foundation upon which higher level courses will build. Topics will vary depending on the students and their individual needs. This course and does not meet the graduation requirement for mathematics and is taken concurrently with Algebra I and Study/Social Skills.

Course Title: Algebra I (332)

Term: Full year

Credit: 1.00

Weight: 1.00

Grade: 9

Prerequisite: Placement determined by TACHS score and/or Salesian High School Scholarship Exam and/or Elementary/Middle School grades.

Description: This first level course reviews the elements of Algebra and is designed to develop depth understanding of mathematical content in verbal, symbolic, tabular, and graphical form. It includes relationship between quantities, reasoning with equations, linear and exponential relationships, descriptive statistics, quadratic functions, operations with radicals, and use of equations in problem solving. A Final Exam will be administered in June as well as the Common Core Regents.

Course Title: Algebra I Plus (334)

Term: Full year

Credit: 1.00

Weight: 1.02

Grade: 9

Prerequisite: Must be accepted into the Freshmen Math Section of the Plus Program based on TACHS scores and/or Salesian High School Scholarship Exam and/or Elementary/Middle School grades.

Description: Algebra Plus follows the same course materials Algebra I. However, topics no longer covered in Algebra Common Core are included in this course. This raises interests and fosters more critical thinking skills. Projects are done in each semester. A Final Exam will be administered in June as well as the Common Core Regents.

Course Title: Geometry (340)

Term: Full year

Credit: 1.00

Weight: 1.00

Grade: 9, 10

Prerequisite: Algebra I

Description: This course approaches congruence, similarity, and symmetry from the perspective of geometric transformations. Traditional topics of plane and solid geometry, as well as trigonometry of the right triangle are

included. The correspondence between numerical coordinates and geometric points allows methods from algebra to be applied to geometry and vice versa. An exam will be administered in June.

Course Title: Geometry Honors (342)

Term: Full year

Credit: 1.00

Weight: 1.02

Grade: 10

Prerequisite: Admission into the Honors Program. Honors students must have achieved an 85 final average in Algebra 1+. Non honors students may enter if they achieved a 90 or above as a final average in Algebra 1, as well as positive behavioral and academic recommendations from Administration, Algebra 1 instructor and guidance department.

Description: This course includes the regular Geometry course and goes further in depth on topics not covered. These students also have a project assigned to them relating to Geometry in real world situations. An exam will be administered in June.

Course Title: Algebra 2/Trigonometry Honors (364)

Term: Full Year

Credit: 1.00

Weight: 1.02

Grade: 10, 11

Prerequisite: Algebra I, Geometry. Honors students must have achieved an 85 final average in the previous math honors course. Non honors students may enter if they achieved a 90 or above as a final average in the previous math course, as well as positive behavioral and academic recommendations from Administration, Algebra 1 instructor and guidance department.

Description: This course includes the traditional topics of Intermediate Algebra and Trigonometry: rational expressions, radicals and complex numbers, quadratics, relations and functions, exponents, logarithms, trig functions, trig graphs, trig applications, and trig equations and identities. In addition the course includes probability, sequences and series, and statistics. An exam will be administered in June.

Course Title: Algebra 2 (362) (363)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 11

Prerequisite: Algebra I, Geometry

Description: This course includes the traditional topics of Intermediate Algebra and Trigonometry: rational expressions, radicals and complex numbers, quadratics, relations and functions, exponents, logarithms, sequences and series. An exam will be administered in June.

Course Title: Pre-Calculus (318)

Term: Full year

Credit: 1.00

Weight: 1.02

Grade: 11, 12

Prerequisite: Algebra I, Geometry, Algebra II

Description: Pre-Calculus builds the bridge that connects Algebra and Trigonometry to Calculus. This course will get students to apply concepts and procedures at a higher level. This is a course that approaches topics from a

function point of view and its purpose is to enhance the students' conceptual understanding and mathematical reasoning.

Course Title: Pre-College Algebra

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 12

Prerequisite: Algebra I, Geometry, Algebra II

Description: This course covers topics including special products, factoring, and other operations on polynomials, rational and radical expressions, integral and rational exponents, and scientific notation. In addition, analytic and graphical methods of solving linear equations, linear systems, literal equations, and elementary polynomial equations are covered. Students are also introduced to the analytic geometry of functions, including lines, circles, and parabolas. Diverse applications are emphasized throughout the course. This course prepares students for college level mathematics.

Course Title: Honors Calculus (319)

Term: Full Year

Credit: 1.00

Weight: 1.02

Grade: 12

Prerequisite: Algebra, Geometry and Algebra II. Honors students must have achieved an 85 final average in the previous math honors course. Non honors students may enter if they achieved a 90 or above as a final average in the previous math course, as well as positive behavioral and academic recommendations from Administration, Algebra 1 instructor and guidance department.

Description: This calculus course focuses on the study of change, from a mathematical perspective. The course is broken into two parts: differential calculus and integral calculus. Today, calculus is a popular course offered in college and has multiple uses in science, engineering and economics. It also gives students the ability to solve problems that those with only an algebraic background cannot. The purpose of this course is to enhance the students' conceptual understanding and mathematical reasoning. It will also develop their problem-solving skills and their ability to collaborate with others. This course will get students to apply concepts and procedures at a higher level, which will challenge them to become the best that they can be. The topics of this course include: functions, limits, continuity, derivatives, definite integrals, and differential equations.

Course Title: Linear Algebra (Math Leaders Only) (371)

Term: Full Year

Credit: 1.00

Weight: 1.06

Grade: 12

Prerequisite: Algebra, Geometry, and Algebra II. Math Leaders/Honors students must have achieved an 85 final average in the previous math honors course.

Description: This linear algebra course focuses on matrix theory. This course revolves around systems of linear equations and the properties of matrices. The content included in the curriculum is extremely useful in economics, physics, and engineering. The topics included in this course are: linear equations and matrices, solving linear systems, determinants, real vector spaces, inner product spaces, linear transformations and matrices, eigenvalues, and eigenvectors.

Course Title: AP Calculus (368)

Term: Full year

Credit: 1.00

Weight: 1.06

Grade: 11, 12

Prerequisite: 85% final average in Previous Honors; 85% in Alg.2/Trig. Honors and approval of the math department. Non Honors students may enter if they have achieved a 90 final average in the previous math course, as well as positive behavioral and academic recommendations from Administration, Algebra 1 instructor and guidance department.

Description: A college level course in elementary calculus. Topics include limits, differentiation, integration, logarithmic and exponential functions, area between curves, volumes of solids of revolution, separable differential equations, slope fields and additional applications. Course ends with the AP Calculus AB exam in May. *Students are required to take the Advanced Placement examination which requires an additional testing fee.*

Course Title: Accelerated Algebra (Math Leaders Only) (336)

Term: Fall

Credit: 1.00

Weight: 1.02

Grade: 9

Prerequisite: Admission to Math Leaders Program

Description: Accelerated Algebra follows the same course materials Algebra I + covered in one semester.

However, topics no longer covered in Algebra Common Core are included in this course. This raises interests and fosters more critical thinking skills. Projects are done in each semester. A Final Exam will be administered in June as well as the Common Core Regents.

Course Title: Accelerated Geometry (Math Leaders Only) (344)

Term: Spring

Credit: 1.00

Weight: 1.02

Grade: 9

Prerequisite: 85% in Accelerated Algebra 1 and teacher approval.

Description: This course approaches congruence, similarity, and symmetry from the perspective of geometric transformations. Traditional topics of plane and solid geometry, as well as trigonometry of the right triangle are included.

Course Title: Accelerated Algebra 2/ Trigonometry (Math Leaders only) (366)

Term: Full Year

Credit: 1.00

Weight: 1.02

Grade: 10

Prerequisite: 85% in Accelerated Geometry and teacher approval

Description: This course includes the traditional topics of Intermediate Algebra and Trigonometry: rational expressions, radicals and complex numbers, quadratics, relations and functions, exponents, logarithms, trig functions, trig graphs, trig applications, and trig equations and identities. In addition, the course includes probability, sequences and series, and statistics. An exam will be administered in June.

SCIENCE

Course Title: Living Environment (406)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 9

Prerequisite: None

Description: This Regents level course is designed to provide a broad understanding of the fundamental principles of Biology and to provide an extension of understanding in selected areas. Stress is placed on biological terminology, laboratory skills and equipment, historical development of biology, and learning through the application of scientific methods. Major areas of emphasis are: Biochemistry, Cellular processes, Reproduction & Development, Genetics, Evolution, Ecology & Human Ecology. In the course of study, students will perform laboratory work and complete written reports. Students are required to take the Living Environment Regents exam at the end of the year.

Course Title: Living Environment Plus (408)

Term: Full Year

Credit: 1.00

Weight: 1.02

Grade: 9

Prerequisite: Must be accepted into the Freshman 9+ Program

Description: This Regents level course follows same course material as **Living Environment (406)**; however, more emphasis is placed on the analytical aspect of Biology. Stress is placed on biological terminology, laboratory skills and equipment, historical development of biology, and learning through the application of scientific methods. Major areas of emphasis are: Biochemistry, Cellular processes, Reproduction & Development, Genetics, Evolution, Ecology & Human Ecology. In the course of study, students will perform laboratory work and complete written reports. Students are required to complete a project each semester. Students are required to take the Living Environment Regents exam at the end of the year.

Course Title: Regents Earth Science (417)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 9, 10

Prerequisite: None

Description: This Regents Level course covers the NYS Curriculum including the topics Astronomy, Meteorology, Geology, and Plate Tectonics. Students are given extensive experience with finding and retrieving specific pertinent information from Reference Tables and applying the information to arrive at accurate conclusions. Lab work is an integral part of the course. Regents Earth Science includes a Lab "Practical" i.e. a test of acquired lab skills in the areas of Eccentricity Determination, Epicenter Location, and Rock & Mineral Identification. All students are required to take the NYS Regents Exam at year end.

Course Title: Chemistry (NR) (414)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 10/11

Prerequisite: Living Environment and/or Earth Science

Description: The course will cover the topics at work “behind the scenes” of the physical world. Such topics include Atomic Structure and the mechanisms that determine bonding and reactions between elements; The Periodic Table and how it is used as a tool of organized information; Mathematical tools used in Lab work such as Precision versus Accuracy, Scientific Notation, and Metric Conversions. Integral to this science course is the preparation and oral presentation of an assigned topic pertinent to the course work for the semester. To experience the understanding required to teach a topic and to stand before one’s peers to present the topic are useful when preparing for college.

Course Title: Regents Chemistry (412)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 10

Prerequisite: Living Environment.

Description: This Regents Level Chemistry course covers the broad range of the Chemistry curriculum designated by NYS. The course will cover Atomic Structure, Bonding, The Periodic Table, Physical Behavior of Matter, Kinetics & Equilibrium, Acids & Bases, Oxidation-Reduction Reactions, Nuclear Chemistry, and Organic Chemistry. Lab work included in the study of each topic will enhance the student’s understanding of these varied areas of chemistry. Landmark experiments such as the Double Slit Experiment, Photoelectric Effect, Quantum Mechanics and related contemporary topics will be an integral part of the coursework. All students are required to take the NYS Regents Exam at year end.

Course Title: Regents Chemistry Honors (415)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 10

Prerequisite: Living Environment. Students must have an 85 as a final average in the previous Science Regents/Honors or Plus course. Non honors students may enter if they achieved a 90 or above as a final average in the previous science course, as well as positive behavioral and academic recommendations from Administration, English 11 instructors and guidance department.

Description: This Regents Level Chemistry course covers the broad range of the Chemistry curriculum designated by NYS. The course will cover Atomic Structure, Bonding, The Periodic Table, Physical Behavior of Matter, Kinetics & Equilibrium, Acids & Bases, Oxidation-Reduction Reactions, Nuclear Chemistry, and Organic Chemistry. Lab work included in the study of each topic will enhance the student’s understanding of these varied areas of chemistry. Landmark experiments such as the Double Slit Experiment, Photoelectric Effect, Quantum Mechanics and related contemporary topics will be an integral part of the coursework. All students are required to take the NYS Regents Exam at year end.

Course Title: Health (432)

Term: Half Year

Credit: 0.5

Weight: 0.5

Grade: 9

Prerequisite: None

Description: This course is designed to inform and assist adolescent students with the fundamentals of health as they enter adulthood. In this course of study, students will focus on the basics of nutrition and hygiene, and the

physical, mental and social aspects of their development. Examination of critical health issues such as substance abuse and disease prevention will be discussed. Students will be instructed in CPR during the course.

Course Title: Regents Physics (420)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 11, 12

Prerequisite: Chemistry. Students must have an 85 as a final average in the previous Science Regents or Honors course. Non honors students may enter if they achieved a 90 or above as a final average in the previous science course, as well as positive behavioral and academic recommendations from Administration, English 11 instructors and guidance department.

Description: Physics is the science that seeks to answer the most basic questions about the physical universe. A broad range of fundamental phenomena are therefore in its domain, including motion, force, heat, energy, electricity, magnetism, atomic structure, wave behavior, and optics. Physics is a comprehensive overview of this science. It provides students with an opportunity to apply and develop their skills in mathematical and mechanical problem solving. For students going on to further work in the sciences, the health professions, or engineering, this course is particularly helpful. The New York State Regents Examination in Physics is given in June.

Course Title: Regents Physics Honors (419)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 11, 12

Prerequisite: Chemistry. Students must have an 85 as a final average in the previous Science Regents or Honors course. Non honors students may enter if they achieved a 90 or above as a final average in the previous science course, as well as positive behavioral and academic recommendations from Administration, English 11 instructors and guidance department.

Description: Physics is the science that seeks to answer the most basic questions about the physical universe. A broad range of fundamental phenomena are therefore in its domain, including motion, force, heat, energy, electricity, magnetism, atomic structure, wave behavior, and optics. Physics is a comprehensive overview of this science. It provides students with an opportunity to apply and develop their skills in mathematical and mechanical problem solving. For students going on to further work in the sciences, the health professions, or engineering, this course is particularly helpful. The New York State Regents Examination in Physics is given in June.

Course Title: AP Biology (411)

Term: Full Year

Credit: 1.00

Weight: 1.06

Grade: 12

Prerequisite: Students must have an 85 or better final average in the previous science honors course. Non honors students may enter the course with a 90 or better final average in the previous science course, as well as academic and behavioral recommendations from the student's previous science teacher, administration and guidance dept.

Description: The objective of this course is to provide an in-depth knowledge of biology that will prepare the student for study at the college level. The topics will include comprehensive studies of Genetics, Anatomy and

Physiology, Reproduction and Development, Cell Biology, Biochemistry, Evolution and Ecology. It will integrate the study of these content areas with contemporary issues in science. In the course of study, students will perform laboratory work and complete written reports. ***Students are required to take the Advanced Placement examination which requires an additional testing fee.***

Course Title: AP Environmental Science (403)

Term: Full Year

Credit: 1.00

Weight: 1.06

Grade: 11, 12

Prerequisite: None

Description: The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. ***Students are required to take the Advanced Placement examination which requires an additional testing fee.***

HISTORY

Course Title: Global Studies I (121)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 9

Prerequisite: None

Description: This course is the first half of a two-year course specifically designed to prepare students to master the Global History and Geography Examination. Students will use a variety of intellectual skills to demonstrate their understanding of the History and Geography of the World from prehistory to the Enlightenment. Students will demonstrate their understanding through the analysis of primary source documents, writing, research, debates, oral presentations, and simulations in addition to traditional tests and quizzes.

Course Title: Global Studies I Plus (203)

Term: Full Year

Credit: 1.00

Weight: 1.02

Grade: 9

Prerequisite: Placement by the score on the TACHS exam and/or Salesian Scholarship Exam and/or Elementary/Middle School grades.

Description: This course is the first half of a two-year course specifically designed to prepare students to master the Global History and Geography Examination. Students will use a variety of intellectual skills to demonstrate their understanding of the History and Geography of the World from prehistory to the Enlightenment. Students will demonstrate their understanding through the analysis of primary source documents, writing, research, debates, oral presentations, and simulations in addition to traditional tests and quizzes. This course will challenge students with increased rigor and activities modeled on the Advanced Placement examination model. The goal is to achieve a mastery score on the Department Final Examination in June of the first year. Textbook and related readings and materials will be specifically chosen with a higher reading level and expectation set in mind.

Course Title: Global Studies II (107)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 10

Prerequisite: Global Studies I

Description: This course is the second half of a two-year course specifically designed to prepare students to master the Global History and Geography Examination. Students will use a variety of intellectual skills to demonstrate their understanding of the History and Geography of the World from the Enlightenment to the modern day. Students will demonstrate their understanding through the analysis of primary source documents, writing, research, debates, oral presentations, and simulations in addition to traditional tests and quizzes. The goal is to achieve a mastery score on the June NYS Regents examination. Textbook and related readings and materials will be specifically chosen with a higher reading level and expectation set in mind. Cross-curriculum with the Art and English Department including summer readings.

Course Title: AP World History (205)

Term: Full Year

Credit: 1.00

Weight: 1.06

Grade: 10

Prerequisite: Plus students must have an 85 as a final average in Global Studies +. Non Plus students may enter if they achieved a 90 or above as a final average in Global Studies, as well as positive behavioral and academic recommendations from Administration, English 11 instructors and guidance department

Description: AP World History is a rigorous course designed to introduce sophomore students to college level studies. The purpose of the course is to develop greater understanding of global connections in comparisons of the diverse cultures of the human family. All students enrolled in the course are expected to sit for the A.P. exam in May. Summer reading is required. *Cross-curriculum with the Art and English Department including summer readings. *Students are required to take the June NYS Regents Exam and the Advanced Placement examination which requires an additional testing fee.*

Course Title: Civil Liberties (215)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 11

Prerequisite: None

Description: This course will broaden our student's understanding of the foundations in American history. Students will research and analyze gradual shifts of civil liberties throughout America's development. Students will relate the current political, social and cultural climate as it relates to our history. Students will also comprehend the struggles and successes of America's growth through interpreting and studying the lives of several groups of people and many important individuals.

Course Title: United States History (214)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 11

Prerequisite: Successful completion of 9th and 10th grade Social Studies.

Description: This course will cover the major people, places, and events in American History starting with the early explorers and continuing on to present day. Students will analyze charts, primary sources, political cartoons, and further develop their critical reading and writing skills. This course will prepare students to achieve success on the New York State United States History and Government Regents Examination.

Course Title: AP United States History (212)

Term: Full Year

Credit: 1.00

Weight: 1.06

Grade: 11

Prerequisite: Honors students must have an 85 as a final average in the previous Social Studies Honors course. Non honors students may enter if they achieved a 90 or above as a final average in the previous social studies course, as well as positive behavioral and academic recommendations from Administration, English 11 instructors and guidance department. The student must also agree to complete all summer readings as assigned the previous June.

Description: The student will be able to:

Analyze and critically evaluate primary source material and documents within their historical context, write a cogent and persuasive essay incorporating a clear thesis statement based upon documents and their outside knowledge, research and present position papers and oral arguments to be used to stimulate class discussion, listen attentively to the thoughts and opinions of others and build mutual consensus or tolerate different opinions, use a variety of resource materials to research major themes or problems in American history, enhance student's ability to take notes, listen and comprehend college level historical material discussion and dialogue, draw inferences, identify relationships, detect inconsistencies and weigh conflicting facts, statements and view points, analyze political cartoons, maps, tables, charts and graphs to clarify data and express ideas, analyze and appreciate historical and contemporary literature, art, poetry, painting, sculpture and architecture and relate it to the American Experience.

Students must sit for the United States History Advanced Placement examination administered in early May. All students must also take and pass the New York State United States History and Government Regents examination in late June. ***Students are required to take the Advanced Placement examination which requires an additional testing fee.***

Course Title: United States History and Government (220)

Term: Fall

Credit: 0.5

Weight: 0.5

Grade: 12

Prerequisite: Three years of Social Studies.

Description: United States Government is a required course intended to teach students about the basic functions of our government. A strong emphasis will be placed on applying principles learned in class to current issues. The primary objective of the class is to help students develop critical thinking skills as they become more actively aware of the government policies and practices that affect every aspect of life in the United States. This becomes increasingly important as the students realize that they either rare, or soon will be 18 years old. Consequently, they become adults in the eyes of the law.

Students will write an authentic 10 page research paper. It will be based upon a thesis statement that will make an argument on ANY topic in U.S. History. This will last the entire year and carry over into the Economics course.

Course Title: Economics (227)

Term: Spring

Credit: 0.5

Weight: 0.5

Grade: 12

Prerequisite: United States History and Government (220).

Description: The senior Economics course prepares students to understand that they live in a global economy of scarce resources. Topics include but are not limited to: GDP, The Stock Market, Marginal Thinking, Economic Systems, Production Possibilities Curves, Trade-Offs, Factors of Production, Opportunity Cost, The Free Market, Supply and Demand, Money, and Banking. Students will learn practical and essential personal finance skills to apply to real life.

Course Title: Political Science American Government 201(Iona College Link Course)(228)

Term: Fall

Credit: 0.5

Weight: 1.06

Grade: 12

Prerequisite: 85% in AP US History or 90% in US History

Description: An introduction to the principles of American and foreign governments, foreign policy, political theory, and comparative government, requiring frequent presentations, analysis of governmental systems, and the examination of historical and modern politics in the United States and the world. Course is graded on an A, B+, B, C+, C, D, or F basis. Students must take Pol Sci 201 and 203. Iona College requires a fee for this course. Iona College awards 3 college credits upon successful completion of the course.

Course Title: Political Science Global Politics 203 (Iona College Link Course)(229)

Term: Spring

Credit: 0.5

Weight: 1.06

Grade: 12

Prerequisite: 85% in AP US History or 90% in US History

Description: An introduction to the principles of American and foreign governments, foreign policy, political theory, and comparative government, requiring frequent presentations, analysis of governmental systems, and the examination of historical and modern politics in the United States and the world. Course is graded on an A, B+, B, C+, C, D, or F basis. Students must take Pol Sci 201 and 203. Iona College requires a fee for this course. Iona College awards 3 college credits upon successful completion of the course.

Course Title: AP Psychology (431)

Term: Full Year

Credit: 1.00

Weight: 1.06

Grade: 11, 12

Prerequisite: None

Description: This course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method,

analyze bias, evaluate claims and evidence, and effectively communicate ideas. *Students are required to take the Advanced Placement examination which requires an additional testing fee.*

Course Title: Introduction to Law Studies (231)

Term: Fall

Credit: 0.5

Weight: 0.5

Grade: 12

Prerequisite: None

Description: American Law's approach to law-related education is to provide information and problem solving opportunities that develop the knowledge and skills necessary for survival in our law saturated society. The curriculum includes case studies, mock trials, role-plays, small-group exercises, and visual analysis activities. The use of community resource people within city government, the legal profession and law enforcement is vital to the success of the program. The goal of the course is to promote in students a willingness and capability to participate effectively in the legal and political systems of our city, state and nation.

Course Title: Introduction to Sociology (211)

Term: Spring

Credit: 0.5

Weight: 0.5

Grade: 12

Prerequisite: None

Description: Sociology is the study of society and the way people behave within society. This course will introduce students to this fascinating subject while placing a strong emphasis on social institutions and social change. Some topics that will be discussed are: culture, socialization, social structure, social interaction, race, ethnicity, gender, age, politics, urbanization, and family. Introduction to College Sociology will promote college level thinking and writing. This course will also prepare students to excel in the 21st Century academic world.

FOREIGN LANGUAGE

Course Title: Spanish I (500)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 9

Prerequisite: None

Description: This course will meet the NYS and Common Core standards for foreign languages. The primary goal of this course is the achievement of functional communication in Spanish. This includes listening, speaking, reading and writing within a current and accurate cultural context. Students must develop understanding and appreciation of cultures of the Spanish-speaking world. The daily objective is to present vocabulary and a grammatical point followed by spoken and written exercises. Repetition, listening, and reading practice is included to reinforce the learning process. The course stresses elements of grammar such as the present tense of regular and irregular verbs, nouns, adjectives, and pronouns. Past tense is introduced. Drill exercises, short readings, and vocabulary are provided in each lesson in the text. The workbooks and practice sheets are used to reinforce all four skills. Dialogues, role playing and oral drills provide vocabulary and grammar practice in a conversational setting. Personal questions and questions based on readings in text are used to increase auditory comprehension. Students will receive more drill and guided practice.

Course Title: Spanish 2 (504)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 9, 10, 11

Prerequisite: Spanish I or Placement Exam Administered by Foreign Language Department

Description: Spanish II is a natural continuation of Spanish I. It also meets the NYS and Common Core standards. The goal of this course is increased proficiency in the four basic foreign language skills. This includes listening, speaking, reading and writing within a current and accurate cultural content. However, more time is devoted to auditory comprehension and reading comprehension. The course continues the study of nouns, pronouns, adjectives and verbs (present and past tenses) begun at the Spanish I level. Students are introduced to past participle, imperfect tense, commands, and double object pronouns. Writing short coherent paragraphs and responding in everyday dialog situations are stressed to encourage use of target language and to improve pronunciation. Students in the honors will be involved in more enriched and in depth material with more independent work.

Course Title: Spanish 3 (508)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 10, 11, 12

Prerequisite: Spanish 2

Description: Spanish 3 reviews core content from Spanish 1 and 2 as the class moves on to advance language skills in listening, speaking, reading and writing skills to meet the New York State and Common Core standards. Each unit presents vocabulary and grammar in the cultural context of a different Spanish speaking country or region. These include Mexico, Central America, the Caribbean, countries of the Andes, Spain and the United States. Vocabulary is extensive and appropriate to a range of topics such as volunteer activities, environmental concerns and travel. Grammar includes commands, the future, conditional, and perfect tenses and a thorough presentation of the uses of the subjunctive mood. This course provides additional preparation for the Comprehensive Department Language Examination by speaking practice with individual conversations and writing practice based specific topics.

Course Title: Italian 1 (514)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 9

Prerequisite: None

Description: This course is designed to introduce the conversational, grammatical & cultural systems of the Italian language. By studying the basics (weather, nouns, verbs, adjectives, cultural values, etc.) the foundations for listening, speaking, reading, and writing are set in place. Idioms, vocabulary, and the present tense will also be included.

Course Title: Italian 2 (518)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 9, 10, 11

Prerequisite: Italian 1 or Placement Exam

Description: This course is designed to expand the oral, grammatical, and cultural information of the foreign language begun in the elementary level. By broadening conversational topics, by deepening the workings of grammar, and by further enhancing the study of culture, students will achieve a higher level of listening, speaking, reading, and writing in the Italian language.

Course Title: Italian 3 (522)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 10, 11, 12

Prerequisite: Italian 2

Description: This course is designed to enhance the student's ability in the foreign language. They will listen to passages for auditory comprehension, engage in lengthy conversations, practice reading comprehension, and do written exercises in various styles and on a wide variety of topics. Grammar and Italian culture will also be emphasized.

ART & TECHNOLOGY

Course Title: Studio Art (701)

Term: Half Year

Credit: 0.5

Weight: 0.5

Grade: 10

Prerequisite: None

Description: Studio Art is a full-year required art course for sophomore students. The course offers a wide variety of art mediums, history, techniques, and foundation principles needed to both understand, and create visual arts. All students will finish sophomore year with their very own portfolio, consisting of a number of projects they have produced throughout the year.

Course Title: Senior Art (704)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 12

Prerequisite: None

Description: Senior Art is a full-year studio art elective course for those desiring a broad background in visual arts as part of their general education. It offers a wide variety of art mediums and projects based upon the understanding, knowledge, appreciation, and application of fundamental elements and principles common in basic art structure.

Course Title: Computer Architecture (746)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 12

Prerequisite: None

Description: In this elective course, students use Computer Assisted Design software to create two-dimensional and three-dimensional architectural rendering of homes and public spaces. This course will appeal to students interested in computers, technology, architectural designs, CAD programs, and visual art.

Course Title: Web Design (755)

Term: Half Year

Credit: 0.5

Weight: 0.5

Grade: 12

Prerequisite: None

Description: In this half-year course, which counts as an art elective, students will be introduced first to template based web design software, Google Sites, Square Space, and Wix, for example, as well as a thorough introduction to HTML scripting.

ELECTIVES

Course Title: Finance (380)

Term: Fall

Credit: 0.5

Weight: 0.5

Grade: 12

Prerequisite: None

Description: The Finance course is an introduction to personal finance, covering topics like personal loans, bank accounts, investments, taxes, topics to give you control over students' financial lives both now and in the future. This class involves hands-on activities and online simulations.

Course Title: Entrepreneurship (385)

Term: Spring

Credit: 0.5

Weight: 0.5

Prerequisite: None

Grade: 12

Description: The Entrepreneurship course is about starting your own business. Students will learn how to develop a business plan, obtain financing, etc. This class involves hands-on activities and online simulations.

Course Title: Forensic Science (425)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 12

Prerequisite: None

Description: Forensic Science is the application of science to the crime scene. This means that the familiar sciences of chemistry, physics, and geology are applied to the place where the crime was committed. This allows authorities to determine the evidential significance of the items there in. This course does not concern itself with social and psychological factors of the incident. Instead it allows students to become familiar with lab techniques that supply accurate and objective information concerning the events that have transpired. Topics such as serology and toxicology will be discussed.

Course Title: Principles of Engineering (434)

Term: Full Year

Credit: 1.00

Weight: 1.00

Grade: 11, 12

Prerequisite: None

Description: This STEM course contributes to the curriculum by providing opportunities for students and teachers to link content together and apply it to solve problems. More and more jobs demand advanced skills, requiring team members to learn, reason, think creatively, make decisions, and solve problems. An understanding of science, technology, engineering and math and their methods contribute in an essential way to these skills. Principles of Engineering is a team based advanced course designed for most students. Students who complete this course will engage in real world case studies and learning activities that focus on the engineering process, making the world a better place to live and work.