

HOLY CROSS HIGH SCHOOL



ACADEMIC COURSE CATALOGUE 2021 – 2022

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Our Programs

Holy Cross High School is dedicated to providing a challenging college preparatory education aligned with state and national criteria. We offer a wide variety of courses that satisfy college and career readiness standards while encouraging students to explore their interests, discover new talents, and enrich their understanding of their faith and themselves. To provide twenty-first century learning experiences for our students, we regularly update our academic programs to reflect important educational initiatives, keeping pace with technological innovations and maintaining a rich assortment of subject matter.

In keeping with the mission and traditions of the Congregation of Holy Cross, Holy Cross High School offers educational programs to an academically diverse student body. While offering a full college-prep curriculum to all of its students, Holy Cross has developed several distinct programs to meet the specific academic needs of its students.

The Blessed Father Basil Moreau Honors Program provides academically gifted students with a challenging course of study designed to maximize their academic potential. These honors courses, which are offered in all subject areas, are taught at a level that significantly exceeds both qualitatively and quantitatively, what is required in a Regents-level course. Placement in the Father Basil Moreau Honors Program is determined by standardized test results, previous report card grades, and teacher recommendations.

The Saint André Bessette Academic Success Program is designed to help select students with the transition from elementary school to high school and beyond. This program provides small class sizes, literacy-centric coursework, and rigorous monitoring of progress for students requiring greater assistance in the foundational areas of reading and mathematics. These dedicated classes help improve academic performance and increase student confidence. Students are also prepared to satisfy the New York State Regents mandates in all subject areas. Placement in the Saint André Program is determined by standardized test results, previous report card grades, and teacher recommendations.

Student Support Services are SETSS (Special Education Teaching Support Service) classes built into the schedule of students with IESPs (Individualized Education Support Plans), in accordance with their most up to date documentation. These class periods provide students with a small class learning environment in which to engage in activities and learning to make progress towards their IESP goals.

Advanced Placement and College Courses allow Holy Cross students to obtain college credit by taking Advanced Placement (AP) and College Courses. The AP classes prepare students for the College Entrance Examination Board (CEEB) Advanced Placement Examination. Our partnership with St. John's University's College Advantage Program allows juniors and seniors to take up to 9 credits of SJU courses each semester here at Holy Cross. Similarly, qualified candidates may obtain credits from the State University of New York by participating in our Science Research Program. Please note that colleges and universities have different criteria for granting credit. Altogether, our graduates have transferred college credits to over 150 different colleges and universities through these programs. Students should speak to their guidance counselor for further details.

Course Levels

The courses offered at Holy Cross High School are all college preparatory. Level 1 emphasizes fundamental concepts and skills. NYS Regents exams, if offered, are required for Level 2 (college prep) and Level 3 (honors) courses. Level 4 are college courses. They include classes that prepare students for the CEEB Advanced Placement Exam. All these classes have been approved by the AP Audit as eligible courses. In addition, college credit courses are offered through the St. John's University College Advantage Program.

NGA Information

An Honor Roll is published each quarter. Students are designated as being on the Principal's List, First Honors, or Second Honors. A student's status on the Honor Roll is determined by the numerical average in his courses. Students also receive a cumulative Numerical Grade Average (NGA) at the end of each year. This NGA reflects the student's numerical average, as well as the level and the credit weight of the courses in which the average was achieved.

The weighted NGA ensures that a student is not penalized for choosing more difficult courses. Therefore, for example, an 85% achieved in a Level 4 Course will have more quality points assigned to it than an 85% in a Level 2 course.

Inclusion on the Honor Roll is based upon the following:

Principal's List	NGA of 96.00% or higher with no grade less than 80
First Honors	NGA of 91.00% - 95.99% with no grade less than 80
Second Honors	NGA of 86.00% - 90.99% with no grade less than 75

Holy Cross High School Diploma Requirements

	HOLY CROSS REGENTS DIPLOMA MINIMUM REQUIREMENTS		NYS ADVANCED REGENTS DIPLOMA MINIMUM REQUIREMENTS
	COURSES	MANDATED REGENTS EXAMS	ADVANCED REGENTS EXAMS
Theology	4 years	-	-
Service	100 hours by graduation	-	-
English	4 years	English	English
Social Studies	Global Studies (2 years)	Global Studies	Global Studies
	US History	US History	US History
	Political Science/ Economics	-	-
Math	4 years*	Algebra	Algebra Geometry Algebra II/Trig
Language	3 years	-	FLACS Exam
Science	3 years**	Living Environment	Living Environment & 1 additional science
Physical Education	4 years	-	-
Health	1 semester	-	-
Fine Arts	1 year	-	-
Electives	1 year Minimum	-	-
CREDITS	26 ½ Minimum		

*All students must take 4 years of Math. The sequence of courses must include Algebra, Geometry, and Algebra II/Trigonometry.

**Three years of laboratory science

Grading Policies

The passing grade for all coursework is 70%.

The academic school year is divided into four quarters. At the end of each quarter, students receive, for each subject, a grade that represents the average of the tests, quizzes, homework, projects, and/or labs that were administered for evaluation by teachers throughout that quarter. Students are responsible for adhering to all teacher/class course requirements. Since teachers of various subjects may calculate quarterly averages differently, students should follow each teacher's guidelines accordingly.

Most courses include a midterm and a final exam. These comprehensive tests are independent of the quarterly averages and carry a weight equal to half the value of a quarterly grade. Thus, a student's final average for the year is based on the following weights:

Quarter 1	= 20%
Quarter 2	= 20%
Midterm	= 10%
Quarter 3	= 20%
Quarter 4	= 20%
<u>Final Exam</u>	<u>= 10%</u>
TOTAL	= 100%

Formally, the final grade in a course is calculated according to the following formula:

$$\{ 2(Q1 + Q2 + Q3 + Q4) + \text{Midterm} + \text{Final Exam} \} \div 10$$

If a course does not include a midterm and/or a final exam due to its particular content, the system automatically adjusts the quarterly point value calculations as follows:

$$2(Q1 + Q2 + Q3 + Q4) \div 8$$

Regents Exam Policies

The passing grade for all Regents exams is a 65%.

All students enrolled at Holy Cross High School must pursue and attain at least a Regents-level diploma (See page). There are no opt-out alternatives to this minimum expectation. The grade from a Regents exam is not averaged into a student’s year-end average, nor does it take the place of another exam. Credit for passing Regents exams is separate from credits earned for passing courses. Passing a Regents exam does not automatically enable a student to pass the class. Similarly, passing a class does not enable a failing Regents score to be ignored. The following table distinguishes the differing consequences related to passing and failing courses and Regents Exams by the end of the school year.

COURSE RESULT	REGENTS RESULT	SUMMER SCHOOL
Failed the course	Passed or Failed	Complete summer school course & retake Regents if failed
Passed the course	Failed mandated* Regents exam	Complete summer school course & mandatory Regents retake
Passed the course	Failed Advanced Regents exam	Optional retake in August

*See page for a list of mandated Regents exams.

As per the New York State Education Department and the Board of Regents, effective June 2011, once scoring committees have rated an exam, they may not re-score it, regardless of the final score. This is true even in the case of final scores of 60-64% or 50-54%.

The administration dates and times of Regents Exams are set by the New York State Education Department and cannot be rescheduled by any individual institution. Holy Cross High School will never jeopardize the validity of a Regents Exam and, unfortunately, cannot accommodate a family’s summer plans that may coincide with a summer Regents Exam retake. Students who are not present for a mandatory Regents Exam retake during the summer are subject to dismissal.

Should a student fail a Regents Exam a second time – and that Regents Exam is necessary to the fulfillment of a Regents Diploma – the student must retake the exam once again during the following January. If the student is pursuing an Advanced Regents Diploma, the continuation of Regents retakes remains an option.

Course Requirements

Many courses have requirements that students must meet before course registration can be finalized. This list reviews the different types of possible course requirements.

- **PREREQUISITE** (e.g. “1421 - Geometry”) – Identifies courses that the student must pass. This status is reviewed at the end of the year. If a student fails a prerequisite course, they will be registered for a different qualifying course.
- **GRADE LEVEL** (e.g. “Open to juniors and seniors”) – any student entering that grade in the following year may register for that course. “Selected” students are registered automatically if they meet a specific set of criteria. This is often determined by standardized test results and previous report card grades.
- **A RECOMMENDATION FROM...** – Identifies a faculty member that must recommend the student for placement into that course. Academic success in the current course makes students eligible for the next, more challenging course. Teachers will always look to place students in the course that will provide challenge at a level where students will experience success and growth.
- **APPROVAL OF...** – Identifies the faculty member who is responsible for maintaining the quality of a particular academic program. These faculty members may use varying criteria for judging student eligibility. Criteria may include minimum course grades and standardized test results. Students are encouraged to communicate with any individual whose approval is necessary for course advancement.

Other Special Notes

All courses listed in this catalog are subject to availability. Changes to the catalog may occur without notice, but all efforts will be made to update entries in a timely fashion.

When registering for courses, assume that you will pass all of your current courses. If you ultimately fail a course, you must make up the credit for that course at Holy Cross High School’s summer school and pass in order to return to our school in the following year.

Any Holy Cross student who wishes to play athletics in a college Division I or Division II program must submit an NCAA Clearinghouse form. Call NCAA Publications at 1-877-262-1492, or access materials at www.eligibilitycenter.org. You must also send your SAT scores directly to the Clearinghouse. This is done by filling in the Code 9999 in Section 11a of the SAT Registration Form. See your guidance counselor for a form, or if you have any questions.

The Saint André Bessette Academic Success Program

The courses listed below are exclusive to the Saint André Bessette Academic Success Program. (See page .)

1412 – ALGEBRA I WITH MATH LAB

LEVEL 1

1.0 CREDIT

Open to selected freshmen

Topics in this course include algebra, functions, statistics, and probability, with an emphasis on algebra. This course is paired with a supplementary math lab period. Students will be introduced to a wide variety of topics in Algebra as part of their preparation for the NY State Common Core Algebra Regents Exam. A minimum qualifying grade on the NY State Common Core Algebra I Regents Exam is necessary to pass this course.

1613 – INTRODUCTION TO BIOLOGY

LEVEL 1

1.0 CREDIT

Open to selected freshmen

This course will emphasize the following themes as described by the New York State Department of Education: evolution, energy, matter & organization and maintaining a dynamic equilibrium. Basic reading skills as applied to science and proper laboratory procedures will be developed. After successfully completing this course, the students will take Biology/The Living Environment 2.

1211 – INTERDISCIPLINARY WRITING & RESEARCH I

LEVEL 1

1.0 CREDIT

Open to selected freshmen

This course is designed to improve and develop all students' writing skills through extensive revising, editing, and peer evaluation of a wide variety of subject-specific assignments. Students will also be encouraged to express their own views through different modes and genres while supporting their claims and ideas by incorporating relevant research-based information.

1221 – INTERDISCIPLINARY WRITING & RESEARCH II

LEVEL 1

1.0 CREDIT

Prerequisite: 1211 – Interdisciplinary Writing & Research I

This course will continue to build and develop all students' writing skills through extensive revising, editing, and peer evaluation of a wide variety of subject-specific assignments. Students will gain confidence in their ability to express their own views through different modes and genres while supporting their claims and ideas by incorporating relevant research-based information.

COURSE REQUIREMENTS FOR STUDENTS IN EACH YEAR OF THE ST. ANDRE PROGRAM

GRADE 9	GRADE 10	GRADE 11	GRADE 12
English 9-a	English 10-a	English 11-a	English Electives*
Global I-a	Global II-a	U.S. History-a	Poli. Sci.* / Econ.*
Algebra I with Lab	Geometry-a	Algebra II*	Math Elective*
Intro to Biology-a	Biology-a	Earth Science*	Any Elective*
Theology 9-a	Theology 10-a	Theology 11*	Theology 12*
Interdisciplinary Research & Writing I	Interdisciplinary Research & Writing II	World Language 1*	World Language 2*

Courses by Department

The Theology Department

Each student is required to participate in our service learning program by volunteering their time in the Church, civic or school community. Throughout their 4 years of study, students will explore various theological concepts while maintaining an active commitment to the greater community. The program will afford students an opportunity to express their idealism and Christian beliefs in concrete life situations. The minimum number of service hours for each course is listed below.

1110 – THEOLOGY 9**LEVEL 2****1.0 CREDIT***Open to freshmen*

Students will learn about all monotheistic religions through a study of the Old Testament. Themes include Creation, the Ten Commandments, and the Kingdom of Israel. Included is a comprehensive study of the heritage and history of the Congregation of Holy Cross. This course includes an academic service learning component with 10 hours of experiential learning in the classroom.

1120 – THEOLOGY 10**LEVEL 2****1.0 CREDIT***Open to sophomores*

A thorough study of the four Gospel writers will help students develop a greater understanding of Jesus Christ the man and the Messiah. Christianity's development will be examined through the Acts of the Apostles. This course includes 20 hours of service in the school community.

1127 – THEOLOGY 10 HONORS SEMINAR**LEVEL 3****1.0 CREDIT***Prerequisite: A recommendation from your 1110 - Theology 9 teacher*

Along with an in-depth study of the Gospels and the life of Christ, students will engage in seminar-style experiences to apply their understanding of the development of Christianity to the modern world. Critical analysis of historical events that test our Faith will be an important part of the course. This course includes 20 hours of service in the school, Church, or civic community.

1130 – THEOLOGY 11**LEVEL 2****1.0 CREDIT***Open to juniors*

This course focuses on the Catholic theological perspective on questions of faith, social justice, conscience formation, and the process of moral decision making. There is significant emphasis on the use of case studies for the purpose of making applications of moral theories. This course includes 30 hours of community service in the greater New York community through our varied community partners.

1137 – JUNIOR HONORS THEOLOGY**LEVEL 3****1.0 CREDIT***Prerequisite: 1127 – Theology 10 Honors Seminar -or- a recommendation from your 1120 – Theology 10 teacher*

This course will provide a foundation in the Catechism of the Catholic Church as well as a study of other World Religions. This course will also benefit those juniors who intend on serving in local parishes as a teacher of religious education for elementary students, or intend on taking part in everyday parish functions, i.e. youth ministry, service learning, retreats, etc. At the conclusion of this course, students will have the opportunity to receive Church certification to distribute Eucharist. This course includes 30 hours of service to the Church and local community.

1140 – THEOLOGY 12**LEVEL 2****1.0 CREDIT***Open to seniors*

The curriculum includes the development of the Christian life skills needed to make good decisions in right relationships. The course focuses on the sacredness of life and dignity of the human person, and the social call to family and full participation in community. It includes a thorough examination of the origins of sin and evil, using the teachings of St. Paul and his unique story of transformation. This course includes a community service “capstone project” requiring 40 hours of service at a pre-approved site in the greater New York community.

1147 – SENIOR HONORS THEOLOGY**LEVEL 3****1.0 CREDIT**

Prerequisite: 1137 – Junior Honors Theology -or- A recommendation from your 1130 – Theology 11 teacher

The academic component of the course is the same as 1143 – Theology 12. The experiential segment of the course involves at least 50 hours of service related to Campus Ministry activities within the school community as leaders of youth and ministers of the Word in liturgies and related religious activities.

1149 – COLLEGE THEOLOGY**LEVEL 4****1.0 CREDIT**

Prerequisite: A recommendation from your 1137 – Junior Honors Theology teacher

This course will cover belief statements, practices, scripture, rites and theological writings of the Christian faith through its development. This course includes a community service “capstone project” requiring 40 hours of service at a pre-approved site. Students may pursue college credit through the St. John's University College Advantage Program.

The English Department

1210 – ENGLISH 9 COLLEGE PREP	LEVEL 2	1.0 CREDIT
<i>Open to freshmen</i>		
This course introduces students to the writing process through the development of Common Core evidence-based informative and argumentative essays. It also features an introduction to specific literary genres such as drama, novels, short stories, and poetry.		
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1217 – ENGLISH 9 HONORS	LEVEL 3	1.0 CREDIT
<i>Open to selected freshmen</i>		
This course features in-class essay writing that reflects Common Core State Standards, extensive research assignments, frequent reading homework, and critical reading and thinking applications that extend beyond the basic requirements.		
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1220 – ENGLISH 10 COLLEGE PREP	LEVEL 2	1.0 CREDIT
<i>Open to sophomores</i>		
This course emphasizes the development of the writing process with an aim toward mastering supporting assertions for a variety of purposes while developing an effective writing style. The material presented builds upon the reading comprehension and critical thinking skills that began in English 9.		
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1227 – ENGLISH 10 HONORS	LEVEL 3	1.0 CREDIT
<i>Prerequisite: 1217 - English 9 Honors -or- a recommendation from your 1210 - English 9 teacher</i>		
This course features a more advanced survey of literary genres. Course work includes in-class essay writing that reflects Common Core State Standards, SAT-based vocabulary exams, thorough MLA research assignments, frequent reading homework, and creative projects. Students at this level are required to take the NYS ELA Regents Exam.		
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1230 – ENGLISH 11 COLLEGE PREP	LEVEL 2	1.0 CREDIT
<i>Open to juniors</i>		
This course includes a thorough application of Common Core writing expectations along with preparation for the PSAT/SAT and Regents Exam, college admissions writing tasks, thorough MLA research assignments, frequent reading homework, and constructive participation.		
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1237 – ENGLISH 11 HONORS	LEVEL 3	1.0 CREDIT
<i>Prerequisite: 1227 - English 10 Honors -or- a recommendation from your 1220 - English 10 teacher</i>		
This course includes a rigorous application of Common Core Learning Standards with emphasis placed on mastering writing for information and understanding, literary response and expression, and critical analysis and evaluation. Preparation for the PSAT/SAT and Regents Exam is included.		
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1239 – AP ENGLISH LANGUAGE AND COMPOSITION	LEVEL 4	1.0 CREDIT
<i>Prerequisite: A 90 or better on the NYS Common Core Regents Exam in ELA and a recommendation from your English teacher</i>		
The AP English Language and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students who elect courses in rhetoric and composition typically focus their reading on discursive prose that ranges across disciplines. Students in this course must take the CEEB AP Exam in English Language & Composition.		
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1233 – SAT/ACT PREP		0.5 CREDIT
<i>Open to juniors</i>		
This semester long course is a web-based SAT and ACT prep program. It is designed to help students prepare for either test and maximize their test taking abilities. Students will complete their prep lessons in the classroom and may work at home to maximize their exposure to the lessons. The SAT and ACT programs track student performance so students can focus on key areas where they need to make improvements.		
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1241 – PUBLIC SPEAKING AND DRAMATIC PERFORMANCE	LEVEL 2	0.5 CREDIT
<i>Open to seniors. This elective must be taken with an additional English elective to fulfill NYSED English 12 graduation requirements.</i>		
This course seeks to help students develop and master the techniques of public speaking. It involves presentations in a variety of formats including memorized speeches (both historical and original), oral reading of poetry and prose, as well as dramatic performances.		

1242 – SCIENCE FICTION LITERATURE	LEVEL 2	0.5 CREDIT
<i>Open to seniors. This elective must be taken with an additional English elective to fulfill NYSED English 12 graduation requirements.</i>		
This course surveys the literary beginnings as well as some of the modern masters of this popular genre. Students will explore worlds that are at once realistic and impossible through the writings of classic authors such as H.G. Wells as well as modern writers like Isaac Asimov.		
1243 – LITERATURE: DRAMA	LEVEL 2	0.5 CREDIT
<i>Open to seniors. This elective must be taken with an additional English elective to fulfill NYSED English 12 graduation requirements.</i>		
In this semester long course, students will examine representative texts including classical Greek and Roman drama, Shakespearean tragedies, and works of the modern American stage. Course work includes research assignments with elements from actual productions.		
1244 – HORROR LITERATURE	LEVEL 2	0.5 CREDIT
<i>Open to seniors. This elective must be taken with an additional English elective to fulfill NYSED English 12 graduation requirements.</i>		
This semester long course surveys the literary beginnings of the horror genre from early British Gothic stories, the “penny dreadfuls”, to Poe, the southern gothic to Bradbury & Lovecraft, with a focus on the modern master, Stephen King. Students will develop an appreciation for the unique ability of Gothic and horror writers to generate feelings of terror and dread. Students will have opportunities to analyze the social, political and cultural significance of this genre.		
1247 – COLLEGE ENGLISH	LEVEL 4	1.0 CREDIT
<i>Prerequisite: English 11 Honors 1237 -or- a written recommendation from your 1230 - English 11 teacher</i>		
This course combines a significant amount of readings with creative and analytical writing. Rhetoric and composition are studied during the first semester. In the second semester, emphasis is placed on British literature. Students may pursue college credit through the St. John's University College Advantage Program.		
1249 - AP ENGLISH LITERATURE & COMPOSITION	LEVEL 4	1.0 CREDIT
<i>Prerequisite: English 11 Honors 1237 -or- a written recommendation from your 1230 - English 11 teacher</i>		
The AP English Literature and Composition course is intended to give students the experience of a typical introductory college literature course. It includes intensive study of representative works from various genres, periods, and cultures, concentrating on the works of recognized literary merit. Students will learn to read deliberately and thoroughly, taking time to understand a work's complexity, to absorb its richness of meaning, and to analyze how that meaning is embodied in literary form. Students in this course <i>must</i> take the CEEB AP Exam in English Literature & Composition.		
1251 – CONTEMPORARY AMERICAN WRITERS	LEVEL 2	0.5 CREDIT
<i>Open to seniors. This elective must be taken with an additional English elective to fulfill NYSED English 12 graduation requirements.</i>		
This semester long course is designed for students interested in exploring American literature dating from World War II and later. Students will analyze and discuss modern literature in order to gain an understanding of the challenging moral and social issues of our time. Students will be working with a variety of literary forms such as short fiction, non-fiction, plays, and poetry and songs and will be evaluated through a variety of projects including, but not limited to, essays, journals, visuals and oral presentations.		
1252 – JOURNALISM	LEVEL 2	0.5 CREDIT
<i>Open to seniors. This elective must be taken with an additional English elective to fulfill NYSED English 12 graduation requirements.</i>		
In this semester course students will focus on developing journalistic writing. Weekly writing projects will be used to develop skills in various types of journalistic reporting. Editing techniques will be developed through curating and refining weekly writing assignments into the production of the Holy Cross Newspaper, The Lance.		
1253 – BRITISH LITERATURE	LEVEL 2	0.5 CREDIT
<i>Open to seniors. This elective must be taken with an additional English elective to fulfill NYSED English 12 graduation requirements.</i>		
This semester long course focuses on the study of British literature, incorporating literary theory and reading comprehension, research, writing, listening, and speaking skills. with an emphasis on college level mastery of literary response and expression and critical analysis and evaluation of works from the British Literary Tradition beginning with the Elizabethan Period, Romantic Period, The Victorian and finishing with writers of the 20th century writers.		

The Social Studies Department

1310 – GLOBAL STUDIES I COLLEGE PREP**LEVEL 2****1.0 CREDIT***Open to freshmen*

Students will use a variety of intellectual skills to demonstrate their understanding of the geography of the interdependent world. They will demonstrate their understanding of major ideas, eras, themes, developments, and turning points in world history from a variety of perspectives.

1317 – GLOBAL STUDIES I HONORS**LEVEL 3****1.0 CREDIT***Open to selected freshmen*

Students will focus on local, national, and global issues, including the distribution of people and places over the Earth's surface as well as the environment. They must demonstrate an ability to engage in critical thinking about the broad sweep of history to draw conclusions in great depth.

1320 – GLOBAL STUDIES II COLLEGE PREP**LEVEL 2****1.0 CREDIT***Open to sophomores*

Global Studies II is the culmination of the two-year curriculum started in Global Studies I. As per New York State Education Department mandates, students must pass the Regents Exam in Global Studies at the completion of this course to graduate from high school.

1327 – GLOBAL STUDIES II HONORS**LEVEL 3****1.0 CREDIT***Prerequisite: A recommendation from your 1310 - Global Studies I teacher.*

This honors course is the culmination of the two-year curriculum started in Global Studies I. As per New York State Education Department mandates, students must pass the Regents Exam in Global Studies at the completion of this course to graduate from high school.

1329 – ADVANCED PLACEMENT WORLD HISTORY**LEVEL 4****1.0 CREDIT***Prerequisite: 1317 - Global Studies I Honors -or- a recommendation from your 1310 - Global Studies I teacher.*

This rigorous course is the culmination of the two-year Global Studies curriculum. As per New York State Education Department mandates, students must pass the Regents Exam in Global Studies to graduate. Additionally, students in this course *must* take the CEEB Advanced Placement World History Exam.

1330 – U.S. HISTORY AND GOVERNMENT COLLEGE PREP**LEVEL 2****1.0 CREDIT***Open to juniors*

Students will use a variety of skills to demonstrate an understanding of major ideas, eras, themes, leaders, and significant developments in the history of the United States. As per New York State Education Department mandates, students must pass the Regents Exam in U.S. History at the completion of this course to graduate from high school.

1337 – U.S. HISTORY AND GOVERNMENT HONORS**LEVEL 3****1.0 CREDIT***Prerequisite: 1327 – Global Studies II Honors -or- a recommendation from your 1320 - Global Studies II teacher*

Students will cover the same curriculum as 1330 while exploring additional developments in the history of the United States. As per New York State Education Department mandates, students must pass the Regents Exam in U.S. History at the completion of this course to graduate from high school.

1339 – ADVANCED PLACEMENT U.S. HISTORY**LEVEL 4****1.0 CREDIT***Prerequisite: 1329 - AP World History -or- a recommendation from your Global Studies II 1327 teacher*

Students will analyze topics and themes significant to the development of the nation. As per New York State Education Department mandates, students must pass the Regents Exam in U.S. History to graduate. Additionally, students in this course *must* take the CEEB Advanced Placement U.S. History Exam.

1340 – POLITICAL SCIENCE	LEVEL 2	0.5 CREDIT
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Open to seniors

This is a fall elective and must be taken with 1350 - Economics in the spring to fulfill NYSED graduation requirements.

Students will analyze the necessity for establishing governments, the governmental system of the United States and other nations, the United States Constitution, the basic civic values of American constitutional democracy and the roles, rights, and responsibilities of citizenship.

1347 – POLITICAL SCIENCE HONORS	LEVEL 3	0.5 CREDIT
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Prerequisite: 1337 – U.S. History Honors, 1339 - AP U.S History -or- a recommendation from your 1330 - U.S. History teacher

This is a fall elective and must be taken with Economics Honors 1357 in the spring.

More independent study and subject-relevant discussions accompany this course's approach to analyzing governments, the United States Constitution, the basic values of American constitutional democracy, and the roles, rights and responsibilities of citizenship, including avenues of participation.

1349 – ADVANCED PLACEMENT GOVERNMENT AND POLITICS: UNITED STATES	LEVEL 4	1.0 CREDIT
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Prerequisite: AP U.S. History 1339 -or- a recommendation from your 1337 - US History and Government Honors teacher

This course must be taken with 1359 - Advanced Placement Macroeconomics

This course provides an analytical perspective on the government and politics of the United States. It involves general concepts used to interpret U.S. politics and the analysis of specific case studies. Students in this course *must* take the CEEB AP Exam in Government and Politics: United States. This course fulfills the NYSED requirements for Political Science.

1350 – ECONOMICS	LEVEL 2	0.5 CREDIT
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Open to seniors

This is a spring elective and must be taken with Political Science 1340 in the fall.

Students will learn about how societies develop economic systems and associated institutions to allocate scarce resources, how major decision-making units function in national economies, and how an economy solves the scarcity problem through market and non-market mechanisms.

1357 – ECONOMICS HONORS	LEVEL 3	0.5 CREDIT
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Prerequisite: 1337 – U.S. History Honors, 1339 - AP U.S History -or- a recommendation from your 1330 - U.S. History teacher

This is a spring elective and must be taken with Political Science Honors 1347 in the fall.

Students will learn in great depth about the dynamics and complexities of world economies and will be expected to produce a higher standard of work, including independent study and projects analyzing economic systems.

1359 – ADVANCED PLACEMENT MACROECONOMICS	LEVEL 4	1.0 CREDIT
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Prerequisite: AP U.S. History 1339 -or- a recommendation from your 1337 - US History and Government Honors teacher

This course must be taken with 1349 - Advanced Placement Government and Politics: United States

This course cultivates student understanding of the principles that apply to an economic system as a whole by using principles and models to describe economic situations and predict and explain outcomes with graphs, charts, and data as they explore concepts like economic measurements, markets, macroeconomic models, and macroeconomic policies. Students in this course *must* take the CEEB AP Exam in Macroeconomics. This course fulfills the NYSED requirements for Economics.

ELECTIVES IN HISTORY

1341 – SOCIOLOGY	LEVEL 2	0.5 CREDIT
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Open to juniors and seniors

This semester long course is designed to introduce students to the sociological study of society. Sociology focuses on the systematic understanding of social interaction, social organization, social institutions, and social change.

1351 – PSYCHOLOGY	LEVEL 2	0.5 CREDIT
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Open to juniors and seniors

This semester long course introduces the student to the science, methodology, and practice of psychology. It is highly recommended for those students who wish to enter a field or profession in which they will be working with people. Areas such as social work, law, law enforcement, education, and business all require insights into psychology.

1352 – CRIMINAL LAW	LEVEL 2	0.5 CREDIT
<i>Open to juniors and seniors</i>		
This semester long course surveys the law including common law, the U.S. Constitution Bill of Rights, the criminal justice system, probable cause, law of arrest, search and seizure, interrogations and confessions, criminal procedure and penal laws.		
1353 – HISTORY OF NEW YORK CITY	LEVEL 2	0.5 CREDIT
<i>Open to juniors and seniors</i>		
The historical, political, economic and social development of New York City will be surveyed in this semester long course. Topics are examined from the times of the earliest settlers to current events.		
1354 – CONSTITUTIONAL LAW	LEVEL 2	0.5 CREDIT
<i>Open to juniors and seniors</i>		
This semester long course is an in-depth study of the United States Constitutional Law from early legal documents to current issues. This critically course assesses how constitutional principles dating back to 1789 can, or cannot, be applied to contemporary issues. Emphasis will be placed on the history of Constitutional Law and an analysis of Supreme Court cases dealing with civil liberties, civil rights, and First Amendment Rights.		
1355 – WORLD WAR I, 1914-1918	LEVEL 2	0.5 CREDIT
<i>Open to juniors and seniors</i>		
This semester long course will examine the underlying causes which led to the outbreak of World War I. The class will cover the important military events of the conflict and the Treaty of Versailles, which is considered by many historians to be the underlying cause of World War II.		
1356 – WORLD WAR II, 1939-1945	LEVEL 2	0.5 CREDIT
<i>Open to juniors and seniors</i>		
This semester long course will cover the rise of the fascist dictatorships of Mussolini and Hitler as well as the events which led to the outbreak of World War II, including the military events of the conflict and the beginning of the Cold War.		
1358 – SPORTS AND POLITICS IN HISTORY	LEVEL 2	0.5 CREDIT
<i>Open to juniors and seniors</i>		
This semester long course will examine the intersection of sports and politics. Sports occupy an important place in many cultures and have been used as an arena for furthering political issues. Governments not only regulate athletics, but have used athletic competitions both as a tool for political socialization and as a means to advance national interests in international affairs. Special focus will be placed on the political role of sports at the Munich Olympics, the Civil Rights Movement, Title IX, and the role of sports in modern society.		
1369 – COLLEGE MODERN EUROPEAN HISTORY	LEVEL 4	1.0 CREDIT
<i>Prerequisite: Open to Juniors and Seniors with a recommendation from their History teacher</i>		
This course examines the trends, factors, and problems of the nineteenth and twentieth centuries. Topics include World Wars I & II, the rise of fascism, the end of the colonial empires, and the collapse of the Soviet Union. Students may pursue college credit through the St. John's University College Advantage Program.		

The Mathematics Department

1415 – ALGEBRA I COLLEGE PREP **LEVEL 2** **1.0 CREDIT**

Open to freshmen

This course places an emphasis on functions including: linear, quadratics, exponentials, piecewise functions, and absolute value. This course also includes statistics, sequences & series, in addition to modeling real world problems. A minimum qualifying grade on the NY State Common Core Algebra 1 Regents Exams is necessary to pass this course.

1417 – ALGEBRA I HONORS **LEVEL 3** **1.0 CREDIT**

Open to select freshmen

This course includes all the topics in the Common Core Algebra 1 syllabus along with more challenging topics. This course is designed for students who have demonstrated the ability to achieve above average success in math. A minimum qualifying grade on the NY State Common Core Algebra 1 Regents Exams is necessary to pass this course.

1421 – GEOMETRY **LEVEL 1** **1.0 CREDIT**

Prerequisite: 1415 - Algebra I College Prep

This course will cover topics in two planar and coordinate geometry, including triangles, quadrilaterals, geometric solids, and graphing linear and parabolic equations. Students may take the NY State Common Core Regents Exam in Geometry at the end of this course.

1425 – GEOMETRY COLLEGE PREP **LEVEL 2** **1.0 CREDIT**

Prerequisite: A recommendation from your 1415 - Algebra I teacher

This course will cover topics in two planar and coordinate geometry, including triangles, quadrilaterals, geometric solids, graphing linear and parabolic equations. Students must take the NY State Common Core Regents Exam in Geometry at the end of this course.

1427 – GEOMETRY HONORS **LEVEL 3** **1.0 CREDIT**

Prerequisite: 1417 - Algebra I Honors -or- a recommendation from your 1415 - Algebra I teacher

This course will cover topics in two planar and coordinate geometry, including triangles, quadrilaterals, geometric solids, graphing linear and parabolic equations. This course is designed for students who have demonstrated the ability to achieve above average success in Algebra. Students must take the NY State Common Core Regents Exam in Geometry at the end of this course.

1431 – ALGEBRA II **LEVEL 1** **1.0 CREDIT**

Prerequisite: 1421 – Geometry

This course covers a modified version of the former NY State Algebra II and Trigonometry curriculum. Topics include factoring polynomials, functions (i.e.: quadratic, exponential, and trigonometric), imaginary and complex numbers, and basic statistics including measures of central tendency and standard deviation. Students may take the NY State Common Core Regents Exam in Algebra II at the end of this course.

1435 – ALGEBRA II COLLEGE PREP **LEVEL 2** **1.0 CREDIT**

Prerequisite: 1425 - Geometry College Prep

This course follows the NY State Common Core curriculum for Algebra II. Topics include factoring polynomials, functions (i.e.: quadratic, exponential, and trigonometric), imaginary and complex numbers, and basic statistics including measures of central tendency and standard deviation. Students must take the NY State Common Core Regents Exam in Algebra II at the end of this course.

1437 – ALGEBRA II HONORS **LEVEL 3** **1.0 CREDIT**

Prerequisite: 1427 - Geometry Honors -or- a recommendation from your 1425 - Geometry teacher

This course follows the NY State Common Core curriculum for Algebra II. This course is designed for students who have demonstrated the ability to achieve above average success in Geometry. Topics include factoring polynomials, functions (i.e.: quadratic, exponential, and trigonometric), imaginary and complex numbers, and basic statistics including measures of central tendency and standard deviation. Students must take the NY State Common Core Regents Exam in Algebra II at the end of this course.

1439 – ADVANCED PLACEMENT STATISTICS	LEVEL 4	1.0 CREDIT
<i>Prerequisite: 1427 – Geometry Honors -or- 1425 – Geometry and the approval of the Mathematics Department Chairperson.</i>		
This course is a college-level statistics course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students cultivate their understanding of statistics using technology, investigations, problem solving, and writing as they explore concepts like variation and distribution; patterns and uncertainty; and data-based predictions, decisions, and conclusions. Students in this course must take the CEEB AP Exam in Statistics.		

1441 –ADVANCED ALGEBRA	LEVEL 1	1.0 CREDIT
<i>Prerequisite: 1431 - Algebra II</i>		
Advanced Algebra builds on students’ knowledge of Algebra I & II. It is the capstone course for algebraic studies and prepares students for college level math. It includes topics such as functions, solving of equations, matrices, and trigonometry.		

1445 - PRE-CALCULUS	LEVEL 2	1.0 CREDIT
<i>Prerequisite: 1435 - Algebra II College Prep</i>		
This is a survey course in higher Mathematics. Topics include advanced algebra, theory of equations, conics and curve sketching, trigonometry, and probability and statistics.		

1447 –PRE-CALCULUS HONORS	LEVEL 3	1.0 CREDIT
<i>Prerequisite: 1437 - Algebra II Honors</i>		
This is a survey course in higher Mathematics. Topics include advanced algebra, polar coordinates, theory of equations, conics and curve sketching, trigonometry, limits, and an introduction to Calculus.		

1448 – ADVANCED PLACEMENT CALCULUS AB	LEVEL 4	1.0 CREDIT
<i>Prerequisite: 1447 – Pre-calculus -or- a recommendation from your 1437 - Algebra II Honors teacher.</i>		
This is a university level college class. This college level course is designed for students who can handle a very challenging curriculum in Mathematics. Students in this course <i>must</i> take the CEEB AP Exam in Calculus.		

ELECTIVES IN MATHEMATICS

1433 – SURVEY OF MATHEMATICS	LEVEL 2	0.5 CREDIT
<i>Open to juniors and seniors</i>		
This semester long elective is an umbrella of mathematical topics designed for students who will be taking mathematics in college that may not be Calculus. Many topics in this course will play an important role for those students interested in informational technology and computer science. Among the possible topics to be studied are decision making, fair division, matrices, game theory, coding theory, growth patterns, logical reasoning along with probability and statistics.		

1434 – MATHEMATICS OF SPORTS	LEVEL 2	0.5 CREDIT
<i>Open to juniors and seniors</i>		
This semester long elective will focus on the math behind sport metrics. Sports Analytics have become very popular and important in the last decade to fans and managers alike. The first half of the course will concentrate on developing an understanding of descriptive and inferential statistics including measures of central tendency, standard deviation, probability, sampling, distributions and hypothesis testing. These concepts will then be applied to sports analytics including projects and data collection.		

1442 – CONSUMER MATHEMATICS	LEVEL 2	0.5 CREDIT
<i>Open to juniors and seniors</i>		
This semester long elective will introduce students to an understanding of everyday consumer related concepts together with an appreciation of the practical mathematical basis behind those concepts. Students will study real-life consumer topics that have definite mathematical concepts associated with them. General topics include: personal banking, installment debt, wealth building, mortgages, simple and compound interest, leases, budgeting, renting vs. buying, disposable and discretionary income, taxes, total rates of return, and insurance and investing calculations.		

1443 – HISTORY OF MATHEMATICS **LEVEL 2** **0.5 CREDIT**
Open to juniors and seniors
This semester long elective is an introduction to the history of mathematics from ancient civilizations to the present day. Students will study mathematical discoveries in their cultural, historical, and scientific contexts; and how the historical conditions of the early civilizations were affected by these mathematical discoveries.

1451 – COMPUTER SCIENCE **LEVEL 2** **0.5 CREDIT**
Open to all students
This semester long elective will introduce students to the foundations of programming using the Python language. Students will develop computational and critical thinking skills in a blended learning environment. No prior computer science knowledge or experience is necessary.

1455 – ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES **LEVEL 4** **1.0 CREDIT**
Prerequisite: 1437 - Algebra II Honors -or- 1435 - Algebra II and approval of the Mathematics Department Chairperson.
This course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cyber security concerns, and computing impacts. Students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. Students in this course *must* complete performance tasks and take the CEEB AP Exam in Computer Science Principles.

The World Languages Department

Knowledge of another language is important in the increasingly multi-national character of our society. The Department seeks to help students develop linguistic proficiency that will enable them to communicate in a language and ethnic ambiance different from their own. Students will take a cycle of three years of a language. Subsequent years of study must be in the same language as the first year. Many students will have the option of a fourth year of advanced studies with opportunities for earning college credit.

French

The French cycle is a three-year program designed to introduce and progressively increase a student's ability to speak, read, understand, and write French. The geography, history, culture, and institutions of France and of French-speaking nations will be explored.

1511 – FRENCH 1

LEVEL 2

1.0 CREDIT

Prerequisite: Open to freshmen and selected sophomores

This course introduces students to the basic communication skills. Emphasis is on vocabulary building, grammatical structure, speaking and reading within the context of the foreign culture. The focus is on communication as it relates to the student's daily life.

1521 – FRENCH 2 COLLEGE PREP

LEVEL 2

1.0 CREDIT

Prerequisite: 1511 - French 1

This course is designed as a continuation of French 1. The vocabulary and reading material are quantitatively increased. More sophisticated grammatical structures are utilized. The geography, history and social institutions of France and of the French-speaking nations will be explored.

1531 – FRENCH 3 COLLEGE PREP

LEVEL 2

1.0 CREDIT

Prerequisite: 1521 - French 2

This course is designed to increase the student's ability to speak, read, understand and write French. The emphasis will be placed upon oral and written communication as well as various readings. The cultural focus will be on the present day structures and attitudes of French speaking people around the world.

1532 – FRENCH 3 HONORS

LEVEL 3

1.0 CREDIT

Prerequisite: A recommendation from your French teacher

This course is designed to enhance the student's ability to speak, read, understand and write French. Lectures will be delivered in French and students are expected to converse fluently in the language. Vocabulary developed in this and in previous classes will be utilized. The cultural focus will be on the present day structures and attitudes of French speaking people around the world.

1541 – COLLEGE FRENCH [AP FRENCH]

LEVEL 4

1.0 CREDIT

Prerequisite: A recommendation from your French 3 teacher

This course presents a thorough and systematic review of French grammar with emphasis on mastery of the language's fundamentals. Lectures on French writers, literary readings, and discussions of historical, cultural, and political topics are included. Students *must* pursue college credit from either the CEEB AP Exam in French or through the St. John's University College Advantage Program in order to take this course.

Italian

With an emphasis on grammar, the Italian cycle emphasizes practical reading comprehension and speaking skills in Italian. The cultural aspects of the course will deal with Italy's linguistic and cultural influence around the world.

1513 – ITALIAN 1	LEVEL 2	1.0 CREDIT
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Prerequisite: Open to freshmen and selected sophomores

This course introduces students to the basic communication skills. Emphasis is on vocabulary building, grammatical structure, speaking and reading within the context of the foreign culture. The focus is on communication as it relates to the student's daily life.

1523 – ITALIAN 2 COLLEGE PREP	LEVEL 2	1.0 CREDIT
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Prerequisite: 1513 - Italian 1

This is a continuation of Italian 1. With emphasis on grammar, the student will work to expand his vocabulary range, improving his reading comprehension and speaking skills. The cultural aspects of the course will deal with the geography, history and social institutions of Italy and Italian influence around the world.

1524 – ITALIAN 2 HONORS	LEVEL 3	1.0 CREDIT
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Prerequisite: A written recommendation from your 1513 - Italian 1 teacher

This course is designed for the student who has displayed a truly superior degree of achievement in Italian 1. Students will be expected to understand Italian when it is spoken at normal speed. They will read challenging prose, prepare talks and write short compositions.

1533 – ITALIAN 3 COLLEGE PREP	LEVEL 2	1.0 CREDIT
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Prerequisite: 1523 - Italian 2

This course is designed to increase the student's ability to speak, read, understand and write Italian. The emphasis will be placed upon oral communication as well as selected readings. The present-day structure of Italian society will be among this course's cultural topics.

1534 – ITALIAN 3 HONORS	LEVEL 3	1.0 CREDIT
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Prerequisite: 1524 - Italian 2 Honors -or- a written recommendation from your 1523 - Italian 2 teacher

This course is designed to enhance the student's ability to speak, read, comprehend and write in Italian. Lectures will be delivered in Italian and students are expected to converse fluently in the language. Vocabulary developed in this and in previous classes will be utilized. The focus on Italian culture will be presented by class discussion and by study of literary works in Italian.

1545 – COLLEGE ITALIAN [AP ITALIAN]	LEVEL 4	1.0 CREDIT
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Prerequisite: 1534 - Italian 3 Honors -or- a written recommendation from your 1533 - Italian 3 teacher

This course presents a thorough and systematic review of Italian grammar with emphasis on the further development of the student's skills in listening, speaking, writing, and reading. Introductory lectures on Italian writers, selected literary readings, expository writing, and discussions of historical, cultural, and literary topics are included. Students *must* pursue college credit from either the CEEB AP Exam in Italian or through the St. John's University College Advantage Program in order to take this course.

Spanish

The focus of the Spanish cycle is on communication as it relates to daily life and reading within the context of the culture. After a thorough review of Spanish grammar, the student will work to expand his vocabulary range and reading comprehension ability. The cultural aspects of the course will deal with the history of the Hispanic world. Students will be expected to understand Spanish when it is spoken at normal speed. Eventually, they will read challenging prose, prepare talks, and write short compositions. Study of Hispanic culture will focus on the Spanish-speaking youth of today.

1515 – SPANISH 1

LEVEL 2

1.0 CREDIT

Prerequisite: Open to freshmen and selected sophomores

This course introduces students to the basic communication skills. Emphasis is on vocabulary building, grammatical structure, speaking and reading within the context of the foreign culture. The focus is on communication as it relates to the student's daily life.

1525 – SPANISH 2 COLLEGE PREP

LEVEL 2

1.0 CREDIT

Prerequisite: 1515 - Spanish 1

This is a continuation of Spanish 1. After a thorough review of Spanish grammar, the student will work to expand his vocabulary range and reading comprehension. The cultural aspects of the course will deal with the geography, history and social institutions of the Hispanic world.

1527 – SPANISH 2 HONORS

LEVEL 3

1.0 CREDIT

Prerequisite: A written recommendation from your 1515 – Spanish 1 teacher

This course is designed for the student who has displayed a truly superior degree of achievement in Spanish 1. Students will be expected to understand Spanish when it is spoken at normal speed. They will read challenging prose, prepare talks and write short compositions.

1535 – SPANISH 3 COLLEGE PREP

LEVEL 2

1.0 CREDIT

Prerequisite: 1525 – Spanish 2

This course is designed to enhance the student's ability to speak, read, understand and write Spanish. The emphasis will be on oral and written communication. Study of Hispanic culture will focus on the Spanish-speaking youth of today. The student will be exposed to the different educational, vocational and social advantages of bilingualism.

1537 – SPANISH 3 HONORS

LEVEL 3

1.0 CREDIT

Prerequisite: 1527 – Spanish 2 Honors -or- a written recommendation from your 1525 – Spanish 2 teacher

This course is designed to enhance the student's ability to comprehend brief lectures delivered in Spanish and converse fluently in Spanish using vocabulary developed both in this and in previous courses. Students will read relatively challenging prose and write short literary analysis of works read and discussed in class.

1549 – COLLEGE SPANISH [AP SPANISH]

LEVEL 4

1.0 CREDIT

Prerequisite: 1537 – Spanish 3 Honors -or- a written recommendation from your 1535 – Spanish 3 teacher

This course presents a thorough and systematic review of Spanish grammar. Emphasis will be placed on the further development of the student's skills in listening, speaking, writing, and reading. Introductory lectures on Spanish and Spanish-American writers, selected literary readings, expository writing, and discussions of historical, cultural, and literary topics are included. Students *must* pursue college credit from either the CEEB AP Exam in Spanish or through the St. John's University College Advantage Program in order to take this course.

The Science Department

Students enrolled in science courses with Regents Exams must submit 1200 minutes of written laboratory reports as evidence of NYS-mandated work.

1615 – BIOLOGY / THE LIVING ENVIRONMENT

LEVEL 2

1.0 CREDIT

Open to freshmen and selected sophomores

This course will emphasize evolution; energy, matter and organization; maintaining a dynamic equilibrium; reproduction, growth and development; genetics and molecular biology. Students must fulfill a minimum lab requirement and pass the NYSED Regents Exam.

1617 – BIOLOGY / THE LIVING ENVIRONMENT HONORS

LEVEL 3

1.0 CREDIT

Open to selected freshmen

This course will cover 1615 topics in greater depth, and the curriculum will include additional materials. Students must fulfill a minimum lab requirement and pass the NYSED Regents Exam, and preparation for the College Board SAT II will be integrated into the curriculum.

1635 – THE PHYSICAL SETTING / EARTH SCIENCE

LEVEL 2

1.0 CREDIT

Prerequisite: 1615 - Biology

This course will emphasize astronomy, meteorology and weather, climate, and geology. Students must take the New York State Regents Exam in The Physical Setting / Earth Science, complete mandatory laboratory requirements, and take the laboratory practical component of the exam.

1625 – CHEMISTRY

LEVEL 2

1.0 CREDIT

Prerequisite: 1635 - Earth Science

Course topics include the fundamental understanding of subatomic structure, chemical calculations, trends of the periodic table, kinetics and equilibrium, acids and bases, and nuclear chemistry. Students must fulfill a minimum lab requirement and pass the NYSED Regents Exam.

1627 – CHEMISTRY HONORS

LEVEL 3

1.0 CREDIT

Prerequisite: 1617 - Biology Honors -or- a written recommendation from your 1615 - Biology teacher

This course will cover 1625 topics in greater depth, and the curriculum will include additional materials. Students must fulfill a minimum lab requirement and pass the NYSED Regents Exam, and preparation for the College Board SAT II will be integrated into the curriculum.

1640 – FORENSIC SCIENCE

LEVEL 2

1.0 CREDIT

Prerequisite: 1625 - Chemistry

This course covers topics such as DNA analysis, blood typing, comparative anatomy, DNA analysis and chemical analysis of drugs, poisons, and trace evidence. Students will additionally participate in solving mock crimes. Students must fulfill a minimum lab requirement.

1641 – MARINE BIOLOGY

LEVEL 2

0.5 CREDIT

Open to juniors and seniors

This semester long course covers the history of scientific exploration of the oceans, contemporary technologies, and issues affecting the marine environments of the world. Study of representative marine vertebrates from fish to marine mammals is included. Students must fulfill a minimum lab requirement.

1642 – ENVIRONMENTAL SCIENCE

LEVEL 2

0.5 CREDIT

Open to juniors and seniors

Fundamental topics of ecology and human impact upon our world are studied in this course, including the interdependence of the earth's systems; organism population and ecosystem levels; and the role of society in affecting environmental health. Students must fulfill a minimum lab requirement.

1645 – PHYSICS	LEVEL 2	1.0 CREDIT
<i>Prerequisite: 1625 - Chemistry</i>		
This course is designed to investigate the laws of motion, energy waves and nuclear structure through the use of extensive laboratory experience, audio-visuals, and classroom instruction. Students must fulfill a minimum lab requirement and pass the NYSED Regents Exam.		
1660 – APPLIED ROBOTICS	LEVEL 2	0.5 CREDIT
<i>Open to juniors and seniors</i>		
This semester long course will cover principles of engineering, electronics, mechanics, and computer programming. Hands-on activities and group challenges will require students to build and modify functional robots to complete tasks. Students will learn to write basic scripts in order to create autonomous functionality.		
1663 – ANATOMY AND PHYSIOLOGY	LEVEL 2	0.5 CREDIT
<i>Prerequisite: 1625 - Chemistry</i>		
This semester long elective covers anatomical terminology, basic biochemistry, cells and tissues, and the skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Students must fulfill a minimum lab requirement.		
1667 – EPIDEMIOLOGY	LEVEL 2	0.5 CREDIT
<i>Prerequisite: 1625 - Chemistry</i>		
This semester long elective covers the distribution and determinants of health and disease in different human populations and the application of methods to improve disease outcomes. This course is designed to introduce students to the background, basic principles and methods of public health epidemiology. The course will also look at the methods of transmission, symptoms and treatments of specific diseases.		
1651 – ADVANCED PLACEMENT BIOLOGY	LEVEL 4	1.0 CREDIT
<i>Prerequisite: A recommendation from your 1653 - AP Environmental Science teacher -or- your 1645 - Physics teacher</i>		
This course provides an advanced study in Biology. The laboratory experiments are designed to offer the students hands-on experience with college-level investigations. Students fulfill a minimum lab requirement and <i>must</i> take the CEEB AP Biology Exam.		
1652 – ADVANCED PLACEMENT PHYSICS	LEVEL 4	1.0 CREDIT
<i>Prerequisite: 1645 - Physics -or- 1653 - AP Environmental Science</i>		
This course is intended for students interested in pursuing engineering, science, or the medical field. Topics include mechanics, electricity, and magnetism. Students fulfill a minimum lab requirement and <i>must</i> take the CEEB AP Physics Examination.		
1653 – ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE	LEVEL 4	1.0 CREDIT
<i>Prerequisite: 1627 - Chemistry Honors -or- 1645 - Physics</i>		
This course provides students with the scientific principles, concepts, and methodologies required 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 and preventing future planetary concerns. Students fulfill a minimum lab requirement and <i>must</i> take the CEEB AP Environmental Science Exam.		
1671, 1672, 1673 – SCIENCE RESEARCH PROGRAM / UNIVERSITY AT ALBANY	LEVEL 4	1.0 CREDIT
<i>Prerequisite: A recommendation from your science teacher and the approval of the Science Research Coordinator</i>		
<i>Program Requirements: Minimum of 3-4 hours of research each week.</i>		
The Science Research Program, taken in addition to another scheduled science course, is a three-year program designed to present to qualified students the opportunity to perform independent scientific research under the direct supervision of a mentor from a university or hospital. Students in this program may pursue college credit from the SUNY system through the University at Albany.		

The Business Education Department

1710 – INTRODUCTION TO OCCUPATIONS

LEVEL 2

0.5 CREDIT

Open to juniors and seniors

This semester long course is designed to introduce students to the complexities of the working world and to apply concepts in the management of personal resources. Competencies for managing resources as a productive worker, a contributing family member, and a self-sufficient individual will be developed.

1711 – ACCOUNTING

LEVEL 2

1.0 CREDIT

Prerequisite: 1425 - Geometry or higher

This course covers the fundamental principles of bookkeeping and accounting. Students will learn how to use a journal to record transactions into a ledger and to summarize data in financial statements. Fields surveyed include management, marketing, law, and economics.

1712 – PERSONAL FINANCE

LEVEL 2

0.5 CREDIT

Open to seniors

Financially responsible adults need to possess knowledge of many fiscal concerns. Students in this semester long course will be introduced to such topics as banking accounts, credit cards, taxes, mortgages, loans, and insurance.

1713 – FINANCIAL MARKETS

LEVEL 2

0.5 CREDIT

Open to seniors

This semester long course will introduce students to different methods of investing money. It will include the study of stocks, bonds, real estate investments, mutual funds, and the stock market. The course will also review the role of ethics in business.

1714 – SPORTS MANAGEMENT

LEVEL 2

0.5 CREDIT

Open to Seniors

This course stresses basic management principles as they relate to the business of sports. Students are introduced to sports marketing, sports law, sports supervision, sports media, sports ethics, sports facility management and other related areas. Developing and improving communication skills is emphasized throughout the course. The course will contain a practical component where students are expected to learn and assist during actual Holy Cross sporting events throughout the semester.

The Physical Education Department

Physical Education and Health classes are run as single gender sections. Boys and Girls take these classes separately.

The Physical Education courses strive to instill an appreciation for the benefits of physical activity, teamwork, and sportsmanship, while stressing cooperation and competition. The program includes instruction in the principles of physical fitness, weight training, and flexibility stretching. The curriculum also covers various team sports such as team handball, indoor soccer, volleyball, basketball, and softball. In addition, basic Yoga and Zumba are a part of the Girls Physical Education curriculum.

0.5 CREDIT

1741 – PHYSICAL EDUCATION I

Open to freshmen

1742 – PHYSICAL EDUCATION II

Open to sophomores

1743 – PHYSICAL EDUCATION III

Open to juniors

1744 – PHYSICAL EDUCATION IV

Open to seniors

1785 – HEALTH

Open to sophomores, juniors, and seniors

LEVEL 2

0.5 CREDIT

This course is designed to provide the student with knowledge of health principles in the areas of mental health, drug education (including alcohol, tobacco, and drugs), nutrition, physical fitness, basic first aid, human sexuality, and general wellness. It is a NYSED mandatory course.

The Art Department

1801 – INTRODUCTION TO ART	LEVEL 2	0.5 CREDIT
<i>Open to freshman and sophomores</i>		
Students will be introduced to the elements and principles of design through a series of assignments. This semester-long course acts as a starting point for further investigation of the visual arts.		
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1811 – INTRODUCTION TO ART II	LEVEL 2	0.5 CREDIT
<i>Prerequisite: 1801 - Introduction to Art or freshman with a portfolio</i>		
A continuation of Introduction to Art I, this semester-long course sees students continue their learning of Fine Arts and explore new concepts such as color theory and perspective drawing, while using a variety of mediums. Students will use information learned from Introduction to Art I to develop their portfolios and create more complex ideas and designs.		
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1821 – THREE-DIMENSIONAL DESIGN	LEVEL 2	0.5 CREDIT
<i>Prerequisite: 1801 - Introduction to Art -or- 1811 - Introduction to Art II</i>		
This semester long course provides students with experiences in the construction of three-dimensional sculptural forms as they relate to the principles of design. Students are provided opportunities to explore the use of paper, foam-core, cardboard, wood, plaster, wire, metal, and clay in their creations.		
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1822 – PAINTING	LEVEL 2	0.5 CREDIT
<i>Prerequisite: 1801 - Introduction to Art -or- 1811 - Introduction to Art II</i>		
In this semester long course, students will discuss the ideas of color theory and experiment with paints and color mixing. They will engage in a variety of subjects, including still life, landscape and portrait.		
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1825 – DRAWING	LEVEL 2	0.5 CREDIT
<i>Prerequisite: 1801 - Introduction to Art -or- 1811 - Introduction to Art II</i>		
The goal of this semester long course is to train students to see like an artist. Students will develop composition and drawing skills through the use of pencil, charcoal, ink, and pastels. Line, figure drawing, self-portraits, and contrast drawings are introduced in this course.		
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1826 – ARCHITECTURAL DRAWING	LEVEL 2	0.5 CREDIT
<i>Prerequisite: 1825 - Drawing</i>		
This semester long course includes the use of one, two, and three-point perspective, investigation of shadows, circles, cylinders, and orthographic projection. Major drawings include interior and exterior designs that emulate various periods of architecture, architects, and New York City buildings.		
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1828 – DIGITAL ART	LEVEL 2	0.5 CREDIT
<i>Open to juniors and seniors</i>		
In this semester long course, students will explore the elements of digital image design and manipulation to visually and graphically communicate ideas for both fine and commercial art assignments. Students will become proficient with Adobe Photoshop. The primary aim of this course is to build a strong understanding of the principles and elements of design and the design process. Students will acquire basic skills in illustration, typography, and photography.		
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1831 – DIGITAL PHOTOGRAPHY	LEVEL 2	0.5 CREDIT
<i>Prerequisite: 1811 - Introduction to Art II</i>		
<i>Students must own a DSLR camera</i>		
This semester-long course introduces students to the processes and techniques of digital photography, including camera operation, shooting styles, image adjustments, aesthetic understanding, and corrections using image editing software.		
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1832 – ADVANCED PAINTING AND COLOR THEORY	LEVEL 3	0.5 CREDIT
<i>Prerequisite: 1822 - Painting -or- a recommendation from a Fine Arts teacher</i>		
In this semester long course, students will develop painting techniques concerned with color application as well as the properties of design. They will be introduced to composition, various styles and media of painting. Included is the study of artists who represent different movements throughout the course of time.		

1835 – DRAWING FROM LIFE	LEVEL 2	0.5 CREDIT
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Prerequisite: 1825- Drawing -or- a recommendation from a Fine Arts teacher

In this semester long course, students will develop observational drawing skills using a variety of mediums including graphite, charcoal, and ink. Students will work on still life, landscapes, portraits and figure drawings to build their personal portfolio.

1836 – MECHANICAL DRAWING I	LEVEL 2	1.0 CREDIT
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Prerequisite: 1811 - Introduction to Art II and a recommendation from a Fine Arts teacher

This full year course gives students a thorough understanding of drafting instruments, single and multi-view mechanical drawings, freehand sketches, and sectional views. Architectural drawings are done in a reduced scale leading to three-dimensional representations of two-dimensional drawings.

1838 – DIGITAL ART II	LEVEL 2	0.5 CREDIT
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Prerequisite: 1828 - Digital Art I and a recommendation from a Fine Arts teacher

This semester long course builds on the basic principles and design process learned in the Digital Art I course. Upon completion of this course, proficient students will be able to perform advanced software operations to create photographs and illustrations of increasing complexity. Students will employ design principles and use industry software to create layouts for a variety of applications. Students will learn to edit and adjust photographs, create original photo manipulations, original illustrations, and commercial art such as advertisements, posters and/or logos. Students will become proficient with Adobe Illustrator, Photoshop and InDesign.

1845 – FIGURE DRAWING	LEVEL 3	0.5 CREDIT
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Prerequisite: 1835 - Drawing from Life

In this semester long course students will study human anatomy and portrait drawings. Using a variety of materials including graphite, charcoal, pastels, and ink. Students will draw from references as well as live models to further understand the human figure with the goal of developing their personal portfolio.

1846 – MECHANICAL DRAWING II	LEVEL 2	1.0 CREDIT
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Prerequisite: 1836 - Mechanical Drawing I

This full year course focuses on floor plans, elevations, and isometrics leading to the construction of three-dimensional models. The course utilizes Auto CAD which involves the preparation of architectural or engineering drawings through the use of the computer and electromechanical devices.

1849 – SENIOR PORTFOLIO [AP STUDIO ART]	LEVEL 4	1.0 CREDIT
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Prerequisite: 1832 - Advanced Painting and Color Theory, 1845 - Figure Drawing, and a recommendation from a Fine Arts teacher

In this year long course, students will work independently to prepare their personal portfolios. Students can work in a variety of mediums including pencil, charcoal, markers, pastels, digital, paint, or sculpture. Students will hone their skills and abilities to a more challenging level in preparation for college.

The Music & Performing Arts Department

<p>1861 - TRAINING BAND</p> <p><i>Open to all students</i></p> <p>This course is designed for students who have little or no experience with a concert band instrument. Students will be supplied with an instrument so they may learn how to perform and work together with a conductor in a concert band setting.</p>	LEVEL 2	1.0 CREDIT
<p>1862 – INTERMEDIATE BAND</p> <p><i>Prerequisite: 1861 - Training band. Select freshmen must pass an audition.</i></p> <p>This course is designed for students who have had previous experience with a concert band instrument. They should have a basic knowledge of scale patterns and a sense of pitch discrimination. In addition to classroom instruction, all students may take a weekly private lessons for a small fee.</p>	LEVEL 2	1.0 CREDIT
<p>1863 – CONCERT BAND</p> <p><i>Prerequisite: A recommendation from the Music teacher</i></p> <p>This course is designed for advanced students who have had previous experience with a concert band instrument. Students must have a degree of proficiency with a band instrument and should have a reliable sense of pitch discrimination.</p>	LEVEL 2	1.0 CREDIT
<p>1865 – PERCUSSION</p> <p><i>Prerequisite: 1861 - Training band. Select freshmen must pass an audition.</i></p> <p>This course is for band percussionists so that they may focus on rhythm and technique in order to improve their skills. Students in this course will perform with one or more of the bands during concerts in addition to performing as a percussion group.</p>	LEVEL 2	1.0 CREDIT
<p>1875 – AP MUSIC THEORY</p> <p><i>Prerequisite: A recommendation from the Music teacher</i></p> <p>This course introduces students to musicianship, theory, musical materials, and procedures. Students will develop the ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. The ability to read and write musical notation is fundamental to this course. Students <i>must</i> take the CEEB AP Exam in Music Theory.</p>	LEVEL 4	1.0 CREDIT
<p>1260 – TELEVISION PRODUCTION</p> <p><i>Open to juniors and seniors</i></p> <p>This course explores the concepts and techniques in television production. It will utilize a lecture/lab format in which students are exposed to and gain experience in the creative process inherent in television production. Students will participate in the production of videos and news programs.</p>	LEVEL 2	1.0 CREDIT
<p>1262 – TELEVISION PRODUCTION II</p> <p><i>Prerequisite: 1260 - Television Production and approval of Studio Director</i></p> <p>This course is a workshop providing additional hands-on experience in camera operation, technical directing, audio procedures, and other television production skills. The technical aspects of production are stressed.</p>	LEVEL 2	1.0 CREDIT

Student Program Worksheet

Each student and his parents should plan a tentative program based on the guidelines in this book. The Guidance Department will review the tentative program to determine if it is suited to meet the student's academic requirements and if it agrees with his educational aptitudes and goals.

	Grade 9	Grade 10	Grade 11	Grade 12 [#]	Credits Required	Credits Completed
Theology					4	
English					4	
Social Studies					4	
Math					4*	
Language					3	
Science					3**	
Phys. Ed.					2	
Health					½	
Fine Arts					1	
Elective					1	
TOTAL					26 ½	

[#] Seniors must take a minimum of 7 credits.

*All students must take a Math elective for a fourth year of math, if they have completed the Algebra I, Geometry, Algebra II sequence.

**Three years of laboratory science