



**ROSLYN**  
SCHOOL DISTRICT  
ROSALYN HIGH SCHOOL

**Course**

**Offerings**



**2025-2026**



**UPDATED - 8/13/25**

Dave Lazarus, Ed.D.  
*Principal*

Jessica Graf  
*Assistant Principal*

Sandy Stueber  
*Assistant Principal*

August 2025

Dear Students and Families,

As we prepare for the 2025–2026 school year, you have an important opportunity to shape your high school experience. Few times in life offer as much choice and flexibility; however, those choices also carry meaningful consequences for your future.

A Roslyn High School graduate must successfully complete a minimum of 22 credits. Your course selections now will influence the type of diploma you earn, the skills you develop, and the opportunities available to you from one grade to the next.

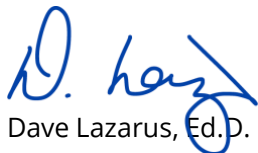
The Course Offerings Guide is your roadmap. Use it to explore the full range of classes and electives we offer. Take time to review your teachers' recommendations, reflect on your performance in current courses, and consult the "Course Level" comparison charts on the RHS section of the district website. These tools will help you make informed, ambitious, and realistic choices.

Please remember: the requests you make now determine our staffing and the number of sections offered in each subject. Once classes are scheduled, changes can be difficult—especially if sections are full—so choose carefully. Dropping a course later may result in limited alternatives and schedule adjustments.

We encourage you to challenge yourself while maintaining balance. Consider the many electives open to students in all grade levels to broaden your skills, discover new interests, and deepen your learning. All 9th- and 10th-grade students must carry a full schedule (eight periods plus lunch).

We wish you success as you plan for the year ahead. If you have any questions or need guidance, please reach out—we're here to help you make the most of your Roslyn High School experience.

Sincerely,



Dave Lazarus, Ed.D.  
Principal

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## **TITLE IX AND SECTION 504 OF THE REHABILITATION ACT**

No person in the United States shall, on the ground of race, color or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance or be so treated on the basis of sex under most educational programs, or activities receiving federal assistance.

The Rehabilitation Act prohibits any discrimination based on a person's handicapping condition.

For questions or issues concerning Title IX, contact Michael Goldspiel, the District Title IX Coordinator, 801-5020.

For questions or issues concerning The Rehabilitation Act, contact Michael Goldspiel, Assistant Superintendent for Secondary Education, 801-5020.

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## EDUCATIONAL PHILOSOPHY AND GOALS OF ROSLYN HIGH SCHOOL

The educational approach of Roslyn High School must be founded upon the realities of the present world, a world of increasingly rapid change and astounding complexity. Central to our philosophy is the belief that students in Roslyn High School must strive for academic excellence, humanistic values, and ethical behavior.

The essential goals of Roslyn High School are:

- To stimulate intellectual curiosity and to develop critical thinking skills.
- To support an atmosphere of academic freedom embracing students and faculty alike.
- To promote a learning environment which offers curriculum choices, sensitive to the varied needs of our students, as they pursue their academic and vocational goals.
- To introduce, implement, and evaluate new and viable educational concepts, materials, techniques, and technologies; to encourage students and teachers to become computer literate.
- To recognize the relevance of health issues, physical education, and leisure-time activities.
- To provide mechanisms through which students will become more sensitive to environmental issues.
- To increase the sensitivity of the school community to gender equity issues.
- To provide information about diverse cultures in order to foster an appreciation and understanding of all peoples, in classes and school activities.
- To encourage widespread student participation in activities which aid others and improve the community.

## COUNSELING SERVICES

Course selection is a complex process which requires the careful integration of a student's educational and career plans, personal interests, and abilities in decision making. The school counseling staff can serve as an important link between students, parents, and the total school program to ensure that planning is based upon sound and current information.

School counseling is both a program of activities and a relationship between the counselor, the student, and the student's family. During the school year, students are encouraged to keep in close contact with their counselor. This individual may be the only adult school professional with whom students will maintain continuous contact throughout their school career.

School counselors provide educational and career counseling and help students deal with concerns they may have with teachers, other adults, or friends. The school counselor also acts as a liaison between the various components of a student's life – school and home, teacher and student, college and school, and student program. Specific counseling programs include orientation to the high school, schedule and course selection as well as college planning and career exploration. These activities are provided through a variety of individual and group counseling programs.

Throughout the school year, students and parents meet with the school counseling staff to review matters of mutual concern. Counselors are available to answer questions and address concerns related to a student's individual program and goals.

## PEER COUNSELING

The Peer Counseling Program is designed for senior leaders who are trained by the school psychologist and the school social worker in the various skills of human relations.

This training usually takes place in the fall of the senior year. Ninth grade students volunteer to join peer groups and the groups meet once a week for a period of twelve weeks.

The major focus of each group is to attain a smooth transition year for freshmen by giving them an opportunity to talk about school adjustment, social relationships, and other dimensions of adolescent growth. The leaders also meet once a week with the trainers for reflection and continued supervision.

## GRADUATION REQUIREMENTS

Local Diploma Required Courses Special Education Students Only	
English	4
Social Studies	4
Mathematics	3
Science (Must include Living Environment credit)	3
World Languages*	1
Art/Music	1
Health	0.5
Physical Education	2
Electives	3.5
<b>****Total</b>	<b>22</b>

Regents Diploma Required Courses	
English	4
Social Studies	4
Mathematics	3
Science (Must include Living Environment credit)	3
World Languages	1
Art/Music	1
Health	0.5
Physical Education	2
Electives	3.5
<b>****Total</b>	<b>22</b>

Regents Diploma with Advanced Designation Required Courses	
English	4
Social Studies	4
Mathematics	3
Science (Must include Living Environment credit)	3
World Languages**	3
Art/Music	1
Health	0.5
Physical Education	2
Electives	1.5
<b>****Total</b>	<b>22</b>

Required Regents Exams Special Education Only (Passing Score 55-64)***
English Language Arts Exam
One Mathematics Exam: <ul style="list-style-type: none"> <li>Algebra</li> <li>Geometry</li> <li>Algebra 2</li> </ul>
One Social Studies Exam: <ul style="list-style-type: none"> <li>Global History</li> <li>U.S. History</li> </ul>
One Science Exam: <ul style="list-style-type: none"> <li>Earth Science</li> <li>Living Environment</li> <li>Chemistry</li> <li>Physics</li> </ul>
One Pathway Assessment

Required Regents Exams (Passing Score of 65 and Above)
English Language Arts Exam
One Mathematics Exam: <ul style="list-style-type: none"> <li>Algebra</li> <li>Geometry</li> <li>Algebra 2</li> </ul>
One Social Studies Exam: <ul style="list-style-type: none"> <li>Global History</li> <li>U.S. History</li> </ul>
One Science Exam: <ul style="list-style-type: none"> <li>Earth Science</li> <li>Living Environment</li> <li>Chemistry</li> <li>Physics</li> </ul>
One Pathway Assessment

Required Regents Exams for Advanced Designation (Passing Score of 65 and Above)
English Language Arts Exam
Three Mathematics Exams: <ul style="list-style-type: none"> <li>Algebra</li> <li>Geometry</li> <li>Algebra 2</li> </ul>
Two Social Studies Exams: <ul style="list-style-type: none"> <li>Global History</li> <li>U.S. History</li> </ul>
Two Science Exams: <ul style="list-style-type: none"> <li>Living Environment</li> <li>AND <b>ONE</b> of the following <ul style="list-style-type: none"> <li>Earth Science</li> <li>Chemistry</li> <li>Physics</li> </ul> </li> </ul>
World Languages Regional Assessment: <ul style="list-style-type: none"> <li>FLACS Checkpoint B Exam</li> </ul>

\* Students with an IEP may be exempt from the World Languages requirement.

\*\* An alternate pathway is available by pursuing a 5-credit sequence in Art, Business, or Technology

\*\*\* Special Education students have Regents Score compensatory options in order to earn a local Diploma.

Please consult your school counselor for available options.

\*\*\*\* Students must complete a minimum of 40 hours of Community Service.

### Honors Distinction on High School Diploma

- Students can receive either a Regents Diploma with honors or Regents Diploma with Advanced Designation with honors if the overall average of required Regents Exams is 90% or higher.
- In addition, students can receive Honors Distinction in Mathematics and/or Science by meeting the following criteria:
  - 3 Mathematics Regents examinations with 85% or above on each exam  
and/or
  - 3 Science Regents examinations with 85% or above on each exam

## Alternate Pathways to Earn a Regents Diploma

Diploma	Pathways	Regents Exam Options
Diploma with Advanced Distinction	Traditional Combination	<b>8 Regents Exams/1 Checkpoint B Exam (9 Total):</b> <ul style="list-style-type: none"> <li>1 English</li> <li>2 Social Studies (Global History and US History)</li> <li>2 Science (Earth Science, Chemistry or Physics &amp; Living Environment)</li> <li>3 Math (Algebra I CC, Geometry CC, Algebra II CC)</li> <li>1 World Language/Checkpoint B or CTE Alternative</li> </ul>
Diploma with Advanced Distinction	STEM Mathematics Pathway Combination	<b>8 Regents Exams/1 Checkpoint B Exam (9 Total):</b> <ul style="list-style-type: none"> <li>1 English</li> <li>1 Social Studies (Global History OR US History)</li> <li>2 Science (Earth Science, Living Environment, Chemistry or Physics)</li> <li>4 Math (Algebra I CC, Geometry CC, Algebra II CC and one additional state approved alternative)</li> <li>1 World Language Checkpoint B Exam or the 5-credit alternative sequence in the Arts or CTE</li> </ul>
Diploma with Advanced Distinction	STEM Science Pathway Combination	<b>8 Regents Exams/1 Checkpoint B Exam (9 Total):</b> <ul style="list-style-type: none"> <li>1 English</li> <li>1 Social Studies (Global History OR US History)</li> <li>3 Science (Earth Science, Living Environment, Chemistry or Physics)</li> <li>3 Math (Algebra I CC, Geometry CC, and Algebra II CC)</li> <li>1 World Language Checkpoint B Exam or the 5-credit alternative sequence in the Arts or CTE</li> </ul>
Diploma with Advanced Distinction	Additional Pathway Combinations (Other Than STEM)	<b>8 Regents Exams/1 Checkpoint B Exam (9 Total):</b> <ul style="list-style-type: none"> <li>1 English</li> <li>1 Social Studies (Global History OR US History)</li> <li>2 Science (Earth Science, Living Environment, Chemistry or Physics)</li> <li>3 Math (Algebra I CC, Geometry CC, and Algebra II CC)</li> <li>1 World Language Checkpoint B Exam OR a 5-credit alternative sequence in the Arts or CTE</li> <li>*1 Pathway other than Science or Math (STEM)</li> </ul> <p style="text-align: center;">*SEE BELOW FOR ALTERNATES*</p>
Regents Diploma	Traditional Pathway	<b>5 Regents Exams:</b> <ul style="list-style-type: none"> <li>1 English</li> <li>2 Social Studies (Global History and US History)</li> <li>1 Science</li> <li>1 Math</li> </ul>
Regents Diploma	Alternate Pathway 4 + 1 Options	<b>4 + 1 Regents/State Approved Assessments:</b> <ul style="list-style-type: none"> <li>1 English</li> <li>1 Social Studies (Global History OR US History)</li> <li>1 Science</li> <li>1 Math</li> </ul> <b>PLUS 1 ADDITIONAL OPTION LISTED BELOW:</b> <ul style="list-style-type: none"> <li>1 additional Math Regents (2 Total) OR</li> <li>1 additional Science Regents (2 Total) OR</li> <li>1 additional Social Studies Regents (2 Total) OR</li> <li>*1 additional State Approved English Assessment (2 Total) OR</li> <li>*1 State Approved Assessment in the Arts OR</li> <li>*1 State Approved Assessment in LOTE (Language Other Than English) OR</li> <li>*1 State Approved CTE Assessment with completion of an approved CTE Program</li> </ul>

**\*Denotes Pathways other than STEM**

## ACADEMIC REQUIREMENTS

### **HOW MANY COURSES AM I REQUIRED TO TAKE EACH SEMESTER?**

Ninth and tenth grade students must take a full schedule, eight classes daily, whenever possible. Eleventh grade students must take seven classes. Twelfth grade students must take six classes. It is highly recommended that every student be scheduled for a lunch period.

### **WHAT GUIDELINES SHOULD I FOLLOW WHEN SELECTING COURSES?**

- Make sure you have selected the required courses for each grade level in order to earn a diploma.
- In selecting elective subjects, consider your specific interests and abilities.
- Also, consider those subjects which will help you to develop your strengths and overcome your deficiencies.

### **WILL I BE SCHEDULED FOR ALL THE COURSES I SELECT?**

Not necessarily. Some courses may conflict with others you would like (or need) to take. Should this happen, you will have to revise your schedule prior to the opening of school in September.

### **MAY I CHANGE MY SCHEDULE AFTER IT HAS BEEN POSTED ON THE PORTAL?**

Counselors return to school each year the last week in August. If there is an error in your schedule, fill out the schedule change request form on the Guidance website. Changes will be considered only if space is available.

**\*\*There will be no changes or drops during the first five days of school.\*\***

### **WHAT IS THE PROCEDURE I SHOULD FOLLOW WHEN I DO DECIDE TO CHANGE A CLASS?**

Students must complete a "Change of Course Request Form" which is available from the Counseling Center. **Students are required to remain in their scheduled class until the change has officially been made and until notified by counseling center.**

### **MAY I DROP A COURSE WITHOUT PENALTY AT ANY TIME?**

There are specific deadlines that will be shared regarding course and level changes. However, it is important to keep in mind that course and level changes (Regents, Honors, and Advanced Placement) are not simple and may require multiple course/teacher changes to a student's schedule.

AP Psychology, AP Computer Science Principles, AP Computer Science A, AP History and AP Statistics have a **drop date no later than one week after Quarter 1 grades are posted on the portal.**



## District Protocol for Advanced Placement Examinations

As part of our commitment to providing a comprehensive and enriching educational experience, we would like to inform you about the Advanced Placement (AP) course offerings available to students at Roslyn High School. Students in grades 10-12 can take any AP courses for which the prerequisites have been met. We encourage each of our students to challenge themselves academically in an environment that will best support their academic pursuits and goals, whether that be an AP, Honors, or Regents level course. Students who are considering taking an AP course should speak with their current teacher(s) and school counselor to help them determine whether such a course is a good fit for them. We offer the following courses; corresponding course descriptions can be found in our Roslyn High School Course Catalog:

- AP 2-D Art & Design
- AP 2-D Art & Design (Photo)
- AP 3-D Art & Design
- AP Art History
- AP Biology
- AP Calculus AB
- AP Calculus BC
- AP Chemistry
- AP Chinese Language and Culture
- AP Computer Science A
- AP Computer Science Principles
- AP English Language and Composition
- AP English Language Strategies
- AP English Literature and Composition
- AP Environmental Science
- AP Environmental Science Strategies
- AP European History
- AP French Language and Culture
- AP Government and Politics
- AP Human Geography
- AP Macroeconomics
- AP Music Theory
- AP Physics 1
- AP Physics 1 & 2
- AP Physics C (Mechanics and Electricity and Magnetism)
- AP Precalculus
- AP Psychology
- AP Psychology Strategies
- AP Spanish Language and Culture
- AP Statistics
- AP US History

All students who take an AP course are required to sit for the AP Exam in May. Students who do not sit for the Advanced Placement exam will have their transcript noted and designation of their course changed from Advanced Placement to Honors. Although there is a cost associated with the exam, discounts are available for students who receive free and reduced-priced lunch.

Students may only take an Advanced Placement exam if they are enrolled in the corresponding Roslyn High School Advanced Placement course.

AP Exams are not offered for courses that are not taught at Roslyn High School. However, a student may make a special request to sit for an exam in their twelfth-grade year for a course that is not offered at Roslyn High School. Any such request should be made to the AP Coordinator prior to the beginning of the student's senior year.

Under special circumstances, a student wishing to take exam(s) that are scheduled for the same time slot should ask the AP Coordinator to contact AP Services.

If you have any questions or concerns, please feel free to contact the AP Coordinator, Tanya Baptiste, or a member of the building administrative team.

## ART

The fine arts program is intended to enrich the lives of all students by providing an opportunity for them to grasp the feel of art through direct contact with the use of various forms, dimensions, and media of the visual art. The experiences, excitement, and satisfaction of individual creative expression will teach the student to appreciate the vision, skill and achievement of the artist.

Students who wish to receive Regents credit for a sequence must successfully complete the foundation course, Studio Art, and earn at least two additional units of advanced art. The following sequences are possible courses of study for Regents credit:

### Art Department

Studio Art				Grade 8
Studio Art	Digital Art, Animation & More	Intermediate Studio Art	Emphasis on 2-D or 3-D Electives	Grade 9
Intermediate Studio Art	Photography & Adv. Photo.	Emphasis on 2-D or 3-D Electives		Grade 10
Portfolio in 2-D or 3-D	Intro to Digital & Advanced Digital	Portfolio in 2-D or 3-D		Grade 11
AP 2-D or 3-D Art & Design	AP 2-D Art & Design (Photo)	AP 2-D or 3-D Art & Design		Grade 12

### Electives

Photography 1\*  
Digital Photography 1\*  
Sculpture and Ceramics 1\*  
Fashion in Art 1\*  
Mixed Media\*  
Digital Art, Animation and more with Procreate\*

Photography 2  
Digital Photography 2  
Sculpture & Ceramics 2  
Fashion in Art 2  
Design your brand: Adobe Illustrator for Creators\*\*

\*Available to Students in Grade 9

\*\*Pending Board of Education Approval

**STUDIO ART**

This hands-on art course is a prerequisite for advanced courses in art and a requirement for a sequence in art. Creative expression in different media will provide a two and three dimensional experience. Emphasis will be on the elements and principles of design.

This course meets the graduation requirement for a fine arts credit.

Grades 9, 10, 11, 12 ..... 1 credit

**DIGITAL ART, ANIMATION, AND MORE WITH PROCREATE**

Are you passionate about art and eager to dive into the world of digital creativity? In this engaging and hands-on art elective, students will unleash their artistic potential using Procreate, a cutting-edge digital art application for the iPad. Throughout the course, students will explore various techniques and tools available in Procreate, harnessing the power of this versatile digital medium to bring their artistic visions to life.

By the end of this course, students will have a solid grasp of digital art creation with Procreate, be able to produce impressive digital artworks, and understand the broader context of digital art in contemporary culture. Whether students aspire to pursue a career in art, use digital art as a means of self-expression, or simply want to expand their creative horizons, this course will equip them with the skills and knowledge to do so. Join us in this exciting journey of artistic exploration and technological innovation with Procreate!

This course meets the graduation requirement for a fine arts credit.

Grades 9, 10, 11, 12 ..... 1 credit

**INTERMEDIATE STUDIO ART**

*(Prerequisite: Studio Art)*

This comprehensive studio course will build on the skills learned in Studio Art. Through two and three dimensional projects, students will begin to develop their personal style and individual expression in a variety of media.

Grades 9, 10, 11, 12 ..... 1 credit

**PORTFOLIO IN TWO-DIMENSIONAL (2-D) DESIGN**

*(Prerequisite: Intermediate Studio Art)*

The gifted and skilled student will be given the opportunity to pursue advanced work in drawing, painting, and design. Knowledge of shading to create the illusion of 3-D using a strong light source is a must. Emphasis will be placed on the AP art sustained investigation. The serious student will continue to develop his/her personal style with a variety of media and advanced techniques.

Grades 11, 12 ..... 1 credit

**PORTFOLIO IN THREE-DIMENSIONAL (3-D) DESIGN**

This course is intended to address sculptural issues using the elements and principles of design. 3-D design projects will emphasize the articulation of mass, volume, light, and form. Students will work in a variety of media including clay, Styrofoam, wire, and mixed media.

Grades 10, 11, 12 ..... 1 credit

AP 2-D ART & DESIGN  
AP 2-D ART & DESIGN (PHOTO)  
AP 3-D ART & DESIGN

**(Prerequisite: Portfolio in Two-Dimensional (2-D) Design or Portfolio in Three-Dimensional (3-D) Design)**

The AP 2-D Art & Design, AP 2-D Art & Design (Photo) & AP 3-D Art & Design classes consist of two parts, which are elements of your AP portfolio. Part I is the “Sustained Investigation.” A completed Sustained Investigation will consist of 15 images (which can include completed or images in progress) and responses to prompts. The Sustained Investigation will equal 60% of the total score. Part II is the “Selected Works” section of the exam. The Selected Works will be five pieces of original artworks or high-quality printed reproductions of physical artworks, as well as responses to prompts. Each of these artworks should demonstrate synthesis of materials, processes and ideas using art and design skills. These five selected artworks may come from the Sustained Investigation section BUT they do not have to. The Selected Works section will equal 40% of the total score. Students must submit an AP Portfolio.

Grade 12 ..... 1 credit

**SCULPTURE AND CERAMICS 1**

This is an introductory course where students explore the 3-dimensional arts. Students will work with a variety of materials including clay, and wood. Clay techniques include hand-building, decoration, and glazing. Sculptural techniques include modeling and construction. Juniors and Seniors may take this course for credit through LIU. Cost payable to LIU.

Grades 9, 10, 11, 12 ..... 1/2 credit

**SCULPTURE AND CERAMICS 2**

**(Prerequisite: Sculpture and Ceramics 1)**

Students will continue exploring a variety of sculptural materials and methods. Clay, cardboard, wood, wire, and metal are some of the materials used. Development in the areas of technique and concept are stressed.

Grades 9, 10, 11, 12 ..... 1/2 credit

**PHOTOGRAPHY 1**

The beginning student is provided with practical camera and darkroom experience through discussion, demonstration and laboratory work in black and white photography. Learning to see and compose a photographic expression will be addressed along with the mechanics of the camera and darkroom procedures. Students should have access to a 35 mm SLR Camera.

Grades 9, 10, 11, 12 ..... 1/2 credit

**PHOTOGRAPHY 2**

**(Prerequisite: Photography 1)**

This course provides continued work in the aesthetic aspects of black and white photography through an exploration of studio lighting, metering, and composition. Fine printing techniques, Sabbatier effect, Kodalith film, and multiple printing are also treated.

Grades 9, 10, 11, 12 ..... 1/2 credit

Indicates that the course is not running for the upcoming school year but will be offered in alternating years.

your own unique brand identity from scratch! Starting with the essentials of branding and modern merchandising, you'll learn how big brands capture attention and create lasting impressions. Then, dive into Adobe Illustrator to transform your ideas into striking logos and visuals that speak directly to your target audience. By the end of this course, you'll have a portfolio of custom-designed graphics and a new set of digital design skills that set you apart. Ready to see your vision come to life?

Grades 9, 10, 11, 12 ..... 1/2 credit

**DIGITAL PHOTOGRAPHY 1**

*(Prerequisite: Photography 1 or Permission from Chairperson)*

Digital photography is the future of photography. This course provides students with an introduction to current digital imaging technology. Through the use of digital cameras, as well as scanners, printers, computers and photo imaging software, students can explore the world of digital photography and the electronic darkroom. Students learn the basic principles of digital photography: white balance, resolution, image size, file formats (jpegs, tiff, raw, etc.), "shutter speed" when there is no film, and create photographic compositions. Prior computer experience is recommended but not required.

Grades 9, 10, 11, 12 ..... 1/2 credit

**DIGITAL PHOTOGRAPHY 2**

*(Prerequisite: Digital Photography 1)*

This advanced course examines in greater depth the special shooting and software techniques acquired in "Introduction to Digital Photography." Various procedures and experiences will enable the student to fully realize the potential of this medium. Basic expertise in managing digital images will be extended to include control of color qualities, methods of selecting images, combining and manipulating these selections, the use of digital repair and adjustment tools and the application of filters. The course also considers the implication of realistic alteration to photographic images, its purposes and intentions, and how this can best be used to enhance creative experience.

Grades 10, 11, 12 ..... 1/2 credit

**MIXED MEDIA**

Need to build your portfolio for art school or just enjoy being creative? This half year course is meant to increase your studio art experience in either 2-D or 3-D art. Students will work on individual projects. Development of skills in the areas of drawing, painting, printmaking, bookmaking, digital arts, sculpture, and mixed media will be available for students to explore. This class is intended for the serious art student but will be open to other art lovers as well.

Grades 9, 10, 11, 12 ..... 1/2 credit

**FASHION IN ART 1**

This semester course is for the beginner student. Students will explore a fusion between fashion and the visual arts. Artwork will incorporate 2-D and 3-D work to explore fashion trends and design. Topics include the logos, fashion still life, and accessories. Students will gain a better understanding of art principles and elements of design while incorporating fashion elements into their art.

Grades 9, 10, 11, 12 ..... 1/2 credit

**FASHION IN ART 2**

***(Prerequisite: Fashion in Art 1)***

This semester course will give students an opportunity to apply the concepts learned in Fashion in Art. Advanced understanding of the fashion industry to create 2-D and 3-D work that explores the use of fabric, accessories and sewing. Development in the areas of technique and concept is stressed.

Grades 9, 10, 11, 12 ..... 1/2 credit

**AP ART HISTORY**

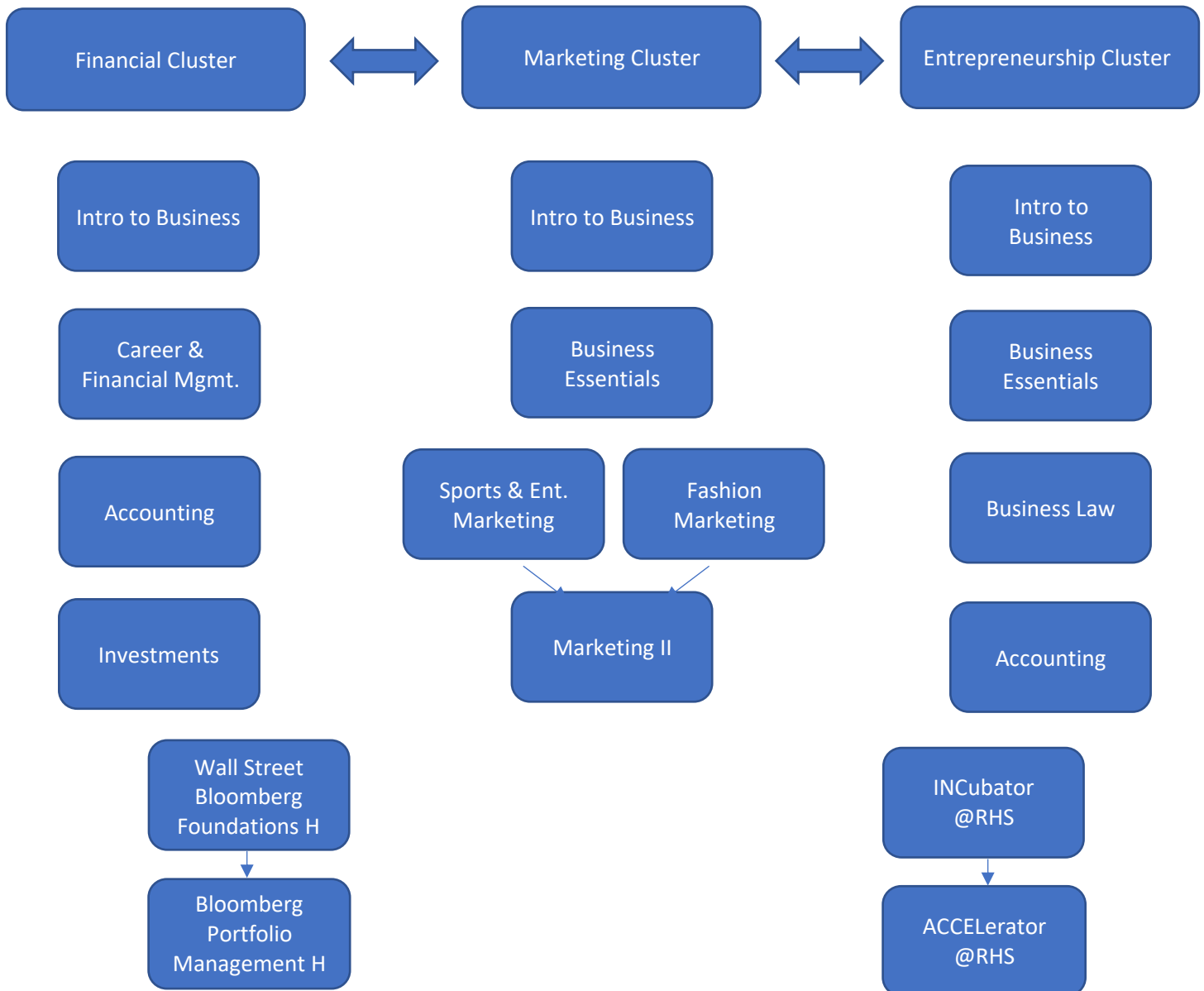
This is a college level survey course focusing on art and architectural trends and their relationship to the cultures that produced them. The course begins in prehistoric times and moves quickly through the art of ancient Egypt, Greece, Rome and the Middle Ages. The course then focuses on the works of the Renaissance and the art periods that follow including the Baroque, Neo-Classical, Romantic, and Realist movements. A significant portion of the course is devoted to modern and contemporary themes in art from the Impressionists to the Modern Masters as well as the art of other cultures. Architecture and Art are equally represented. Students taking this course must take the AP Exam.

Grades 10, 11, 12 ..... 1 credit



## BUSINESS

### Business Department



#### **INTRODUCTION TO BUSINESS**

The perfect course for a first-year business student, this class introduces the fundamentals of American Business and its contemporary environment. It provides an overview of organizational, national, and international trends and their impact on enterprises and entrepreneurs. Students will develop an understanding of important business concepts, principles, and practices that explain how businesses are formed, how they operate to accomplish their goals and how their success depends on effective management, production, marketing, distribution, and finance/accounting.

Grades 9, 10, 11, 12 ..... 1/2 credit

**BUSINESS ESSENTIALS**

Students will learn a wide variety of practical skills needed to land a job and succeed in today's work force. Students will gain an edge over other applicants by preparing them for college, internships and their first job. Working on a variety of individual and team projects, students will learn skills such as effective verbal communication (presentations, meetings, teamwork), effective written communication (email, letters, memos), resume writing, effective interviewing and more. Students will also become proficient in Business software programs, with special emphasis on Google applications and Microsoft Office. Juniors and seniors can take this course for college credit through Long Island University for a cost payable to the University.

Grades 9, 10, 11, 12 ..... 1/2 credit

**CAREER & FINANCIAL MANAGEMENT**

This course will give students the tools they need for financial success. Students will use Excel to calculate a budget, discover how insurance works, manage different types of bank accounts, learn how to invest for retirement, apply for credit, set goals and engage in career planning. Students will take the WISE Financial Literacy Exam to earn a certification credential. Juniors and seniors can take this course for college credit through Long Island University for a cost payable to the University.

Grades 9, 10, 11, 12 ..... 1/2 credit

**ACCOUNTING**

This course introduces students to the secret language that financial managers use to conduct business. Students will develop working skills using the goals and methods of Generally Accepted Accounting Principles including the accounting cycle, use of general and special journals, general ledgers, financial statements, banking transactions, payroll accounting, and adjusting and closing entries for merchandise inventory. Professional Software is introduced. Juniors and seniors can take this course for college credit through Long Island University for a cost payable to the University.

Grades 9, 10, 11, 12 ..... 1/2 credit

**INVESTMENTS**

This course will give students an introduction to basic investment principles that are essential to building wealth. In addition to learning about stocks, bonds, mutual funds, options and futures, this class will address methods of analysis (fundamental vs. technical) and how to assess risk. Students will calculate rates of return and yield, and will construct a portfolio with a given objective. Students will participate in the Stock Market Game. Juniors and seniors can take this course for college credit through Long Island University for a cost payable to the University.

Grades 9, 10, 11, 12 ..... 1/2 credit

**WALL STREET BLOOMBERG FOUNDATIONS HONORS**

As a student of business or finance entering a rapidly changing economy and geo-political climate, you need every edge you can get. Knowledge of and experience working with the Bloomberg Terminal is that edge! Using a Bloomberg Terminal, this year long course will extend students' knowledge of financial markets through their intersection with our economy, global trade, fundamental and technical analysis. Students will use the Bloomberg Query Language (BQL) to analyze equities on a deeper level and advance their knowledge of the financial market. The use of case studies and software analytics will enable students to create well-developed Equity Portfolios and assess risk by researching specific companies and indices. The class will participate in the Bloomberg Trading Challenge, a collaborative project where student teams will develop a strategy and execute trades to achieve the highest profit against their competitors. Students will also earn a Bloomberg certification, through standardized certification modules provided by Bloomberg. Juniors and seniors can take this course for college credit through Long Island University for a cost payable to the University.

Grades 10, 11, 12 ..... 1 credit

**BLOOMBERG FINANCIAL PORTFOLIO MANAGEMENT HONORS**

*(Prerequisite: Wall Street Bloomberg Foundations)*

Looking to advance your financial skills? This 2nd level semester Bloomberg class is for you! Students will enhance their Bloomberg Terminal skills, while expanding upon their investment knowledge and analytical thinking developed in the Wall Street Bloomberg Foundations course. Students will use the Bloomberg Query Language (BQL) to analyze equities on a deeper level and advance their knowledge of the financial market. Students will participate in class with hands-on, project based learning and real-world experiences. This course provides the opportunity to manage funds and assess risk by researching specific companies, indices, bonds, and currencies to construct and test a well thought out investment strategy in the best interests of the client. Student teams will prepare a professional presentation on their equity portfolio, which will be assessed by a panel of industry judges, at a culminating event at the end of the course. Students will be required to go outside of their own general interests to develop a financial portfolio that best meets the needs of their client. Students leave this course with various professional skill sets that are typically learned on-the-job.

Grades 11, 12 ..... 1/2 credit

**SPORTS & ENTERTAINMENT MARKETING**

This semester course will examine all aspects of business marketing, specifically those viewed through the lens of sports and entertainment. Students will work on product development, analyze the effectiveness of advertising and promotion, evaluate pricing strategies and conduct market research. Project development will allow the students to apply their knowledge. If desired, juniors and seniors can take this course for college credit through Long Island University for a cost payable to the university.

Grades 9, 10, 11, 12 ..... 1/2 credit

**FASHION MARKETING**

In this project-oriented course, students will explore the relationships between design, merchandising and marketing in the Fashion industry. Students will develop skills in evaluating consumer behavior, performing market research, creating graphic communications, and analyzing fashion trends. Pricing considerations are assessed through field trips and lessons in store planning and operations. Juniors and seniors can take this course for college credit through Long Island University for a cost payable to the university.

Grades 9, 10, 11, 12 ..... 1/2 credit

**MARKETING 2 – CONSUMER BEHAVIOR**

*(Prerequisite: Sports & Entertainment Marketing or Fashion Marketing)*

This semester course focuses on the link between behavioral principles and consumer responses that help businesses understand how to develop multi-media marketing strategies to attract customers. Students will create brand advertising, pricing and distribution plans that harness the power of the web, such as Search Engine Optimization, Social Media, and Mobile Marketing. Juniors and seniors can take this course for college credit through Long Island University for a cost payable to the university.

Grades 9, 10, 11, 12 ..... 1/2 credit

**BUSINESS LAW**

For the future attorney or business executive, knowledge of the law is essential. This class takes the student on a journey through the world of business from the boardroom to the courtroom. Students will study the legal principles that bind business transactions, experience a live case in a New York courtroom, and develop expertise in emerging topics such as Cyberlaw and Intellectual Property. A mainstay of business schools throughout the country, Business Law provides a hands-on way to practice legal strategies for the workplace. Juniors and seniors can take this course for college credit through Long Island University for a cost payable to the university.

Grades 9, 10, 11, 12 ..... 1/2 credit

**INCubator@RHS HONORS**

This full-year class offers a real entrepreneurship experience where students have the opportunity to create and fully develop their own product or service and learn how to build a business. The course also includes foundational business topics such as marketing, human resources, business law and finance. INCubator culminates with a “Shark Tank” pitch to investors by student teams looking to turn their business plans into reality! Juniors and seniors can take this course for college credit through Long Island University for a cost payable to the University.

Grades 10, 11, 12 ..... 1 credit

**ACCEerator@RHS HONORS**

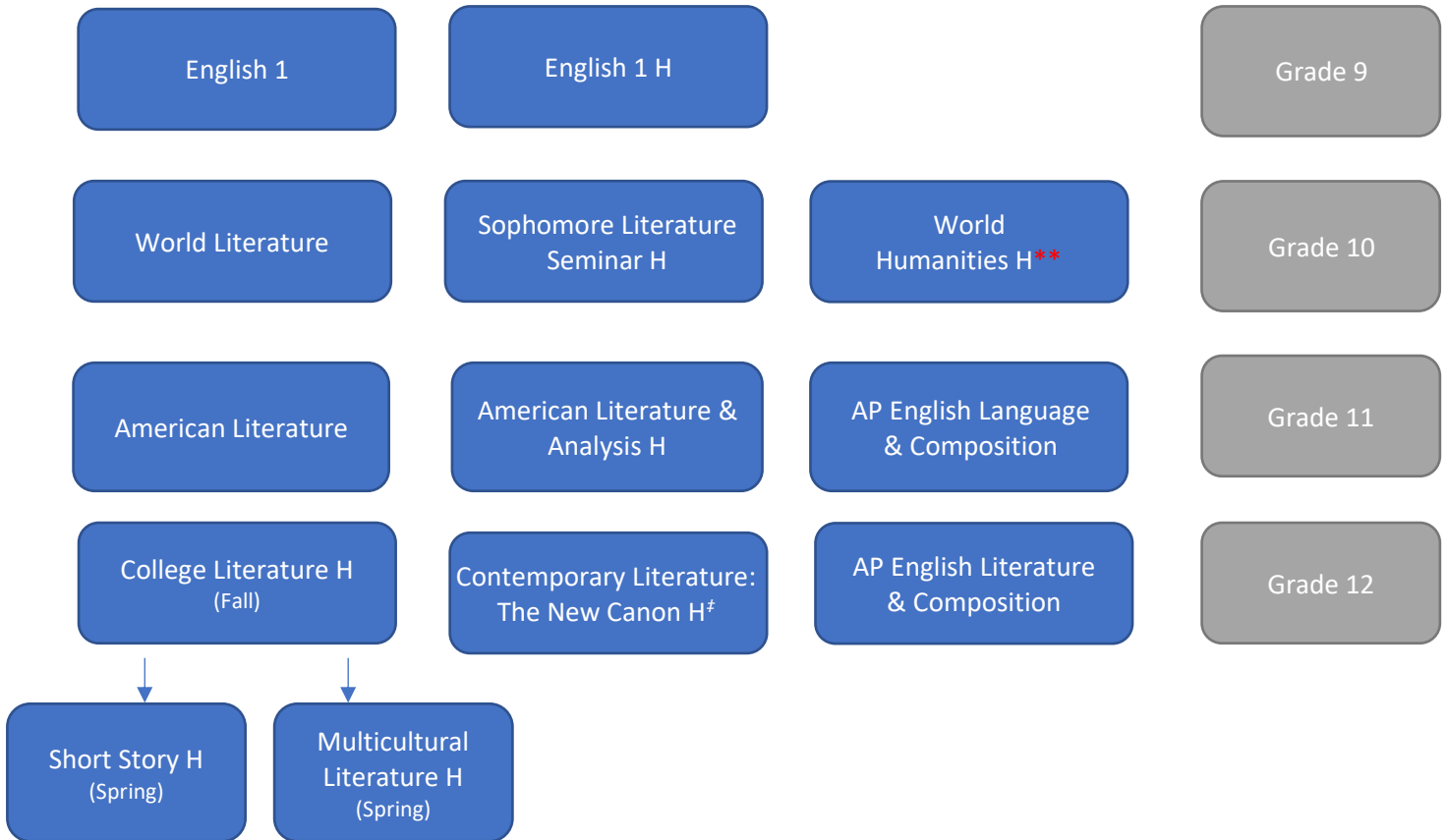
*(Prerequisite: INCubator@RHS Honors)*

ACCEerator@RHS fosters startup development for the business founded in INCubator@RHS. Throughout the program, students work through three major areas of content: customer acquisition, business process and product production. Students leave the course having gained traction in the marketplace to successfully launch their company as a sustainable business. Juniors and seniors can take this course for college credit through Long Island University for a cost payable to the University.

Grades 11, 12 ..... 1 credit

## ENGLISH

### English Department



### Supplementary Courses

Grade 9 English Strategies  
Grade 11 AP English Strategies  
College Preparatory Strategies for SAT/ACT Exams

### Elective Courses

Creative Writing  
Film & Literature  
New Media Communications (Journalism) 1  
New Media Communications (Journalism) 2  
Psychology in Literature  
Public Speaking: Owning the Crowd  
Independent Humanities Research

‡ Pending Board of Education Approval

\*\* Indicates that this course has a corequisite Social Studies course to create a humanities block.

**GRADE 9**  
**ENGLISH 1**

English 1 provides a thorough introduction to the first year of English study at the high school. The course is anchored around a variety of full-length novels including John Steinbeck's *Of Mice and Men*, William Shakespeare's *Romeo and Juliet*, John Knowles' *A Separate Peace*, and Harper Lee's *To Kill a Mockingbird*. Articles, essays, and a full-length poetry anthology will supplement this core text study. Through process writing, students will learn how to construct literary response and argumentative essays with a focus on establishing a clear and compelling thesis supported by textual evidence and thoughtfully considered commentary. Within this context, there will be a continued emphasis on close reading, grammar, and vocabulary as well as literary devices such as characterization, figurative language, setting, conflict, and imagery, among others.

Grade 9 ..... 1 credit

**ENGLISH 1 HONORS**

English 1H is a challenging and comprehensive introduction to literary study at the high school. This course is designed for students who are eager to consider, discuss, and analyze texts in a more sophisticated and independent manner. Students will study the same texts as listed in the English 1 description but supplement with approximately 2-3 additional full length works. In addition to studying the foundational literary devices listed in the English 1 course description, students in English 1H will extend their analysis to more nuanced and complex strategies including symbolism, juxtaposition, extended metaphor, poetic conceit, and rhetorical moves, among others. With a specific focus on author's purpose, students will consider how authors directly and indirectly communicate meaning and universal themes through their works. Regular and productive class participation will be required of all students.

Grade 9 ..... 1 credit

**FRESHMAN LITERATURE STRATEGIES**

Freshman Literature Strategies is designed to offer high school students support in meeting the reading and writing challenges at the high school level. This strategies class pre-teaches and re-teaches reading and writing concepts studied in Freshman Humanities Seminar. Under the guidance of their English teacher, strategies students have the opportunity to initiate more focused conversations that allow them to workshop their writing, produce additional revised drafts, and pay careful attention to clarity, organization, and fluidity. This course best supports students who are eager to receive constructive feedback which will allow them to set concrete writing goals. Strategies students also have the opportunity to perform closer readings of challenging sections from texts studied in their English class.

Course goals include:

- Increased independence and success in writing
- Improved analytical reading skills
- Developing effective reading practices
- Increased ability to read more critically

Grade 9 ..... 1/2 credit

**GRADE 10**  
**WORLD LITERATURE**

This course focuses on plot, themes, character development, and literary elements. This class will utilize scaffolding techniques to help students further develop habits of close reading, emerging literary analysis, and essay development. Quizzes evaluate student understanding of vocabulary, grammar, and literature. Through written essay work and multiple-choice tests, students will demonstrate their understanding of plot, theme, character development, and literary elements. Extended tasks include essays, creative writing pieces, outside reading projects, and research prompts.

Grade 10 ..... 1 credit



SOPHOMORE LITERATURE SEMINAR HONORS

This rewarding and challenging course focuses on close literary analysis, development of multifaceted ideas, and sophisticated expression of thought. Students will engage with complex texts that may include the Greek tragedies of Sophocles, the works of William Shakespeare, Mary Shelley’s *Frankenstein*, William Golding’s *Lord of the Flies*, and J.D. Salinger’s *The Catcher in the Rye*, among others. Students should anticipate daily assignments, such as take-home reading, short and long-form writing, intensive class discussions and seminars, and reading checks. Instruction in this course builds on a student’s ability to work on his or her own and expects increased self-management and academic independence. All assignments will require and build upon a foundation of skills in literary analysis and high-level reading comprehension, with a specific focus on originality of thought, synthesis and analysis, and sophisticated expression of ideas. Success in this course will require meaningful and consistent student participation.

Grade 10 ..... 1 credit

WORLD HUMANITIES SEMINAR HONORS – ENGLISH

(Corequisite: World Humanities Seminar Honors – Social Studies)

World Humanities Seminar Honors is a fully accredited option for sophomores that is the equivalent of Sophomore Literature Seminar Honors and Global History Honors. World Humanities follows an interdisciplinary, humanities-style approach to the sophomore honors curriculum. The class is structured along thematic lines, allowing the selected literature to speak to the units studied in Social Studies. The major literary units may include works such as *Siddhartha*, *The Catcher in the Rye*, *Enemy of the People*, *Othello*, *The Dew Breaker*, *Interpreter of Maladies*, *Lord of the Flies*, and romantic poetry. These units will be supplemented with shorter readings, films, essays, and other hands-on experiences to enhance the students’ understanding of the core issues. Grades will be based on both traditional assessments such as quizzes, tests, and papers and more creative ones such as frequent group projects and presentations. As this is a seminar style course, there will be a special focus on meaningful student participation.

Note: This course is an alternative to the Sophomore Literature Seminar Honors; students who opt to enroll in this course do so with the understanding that this course is equal in rigor and scope to Sophomore Literature Seminar Honors, and thus lateral moves from World Humanities Seminar Honors to Sophomore Literature Seminar Honors will not be accommodated.

Grade 10 ..... 1 credit English & 1 credit Social Studies

GRADE 11  
AMERICAN LITERATURE

This course offers a survey of classic American literature, offering students an opportunity to reconsider America through a textual lens. Literature is examined in its historical context. The course also makes students aware of how our national culture is a product of the contributions of other cultures. A major aspect of the course is vocabulary development; emphasis is also given to organization and precision in written and oral expression.

Grade 11 ..... 1 credit

AMERICAN LITERATURE AND ANALYSIS HONORS

This rigorous Honors level course is designed to prepare the student for the more advanced analyses of literature and language demanded by future courses, such as AP Literature or Contemporary Literature. Students study classic works from every genre and every period of American Literature in this demanding course. The literature is examined in its historical context, keeping in mind major trends and influences in American writing. The emphasis is on in-depth analysis that goes beyond plot. The course is not a prerequisite for AP Literature and Composition but is designed to develop fundamental, college-level critical thinking.

Grade 11 ..... 1 credit

AP ENGLISH LANGUAGE AND COMPOSITION

This Advanced Placement course offers a college-level option which deals with language, rhetoric, and argument. Students are trained to become skilled readers of prose written across a variety of periods and disciplines with an increased emphasis placed on nonfiction pieces. Through instruction in reading and writing, students gain awareness of the interaction between authorial purpose, audience needs, the subject itself, generic conventions, and the resources of language (syntax, word choice, tone). Students taking this course must take the AP Exam.

Grade 11 ..... 1 credit

AP ENGLISH LANGUAGE STRATEGIES

The AP English Language and Composition course is an extremely popular College Board offering. In an effort to encourage more of our students to participate in this exciting course, we are offering this strategies class to those who might find the course challenging. Students will have the opportunity to receive direct, small-group support in this class, which will be taught by teachers participating in the AP English Language program. In the Strategies class, which will meet every other day, students will receive the individualized attention they need, as teachers pre-teach and re-teach the materials covered in the class in preparation for the Advanced Placement English Language and Composition Exam.

Grade 11 ..... 1/2 credit

GRADE 12

There are three different senior year programs from which students may choose.

- **Choice I** – The first program is the **full year Advanced Placement** course, **AP English Literature and Composition**.
- **Choice II** – The second program is the **full year Contemporary Literature Honors**.
- **Choice III** – The third program, **College English Honors**, consists of the **College Literature** class in the Fall semester and two elective options for the Spring semester. Each semester class is worth ½ credit.

Students must choose **ONE** of the following half-credit courses for the Spring semester:

- **College Literature Honors: The Short Story**
- **College Literature Honors: Multicultural Studies**

**NOTE:** Seniors may also take electives in addition to one of the three senior year programs. These courses may be selected from the general offerings of English electives.

COLLEGE LITERATURE HONORS

This semester 1 course is designed for seniors who desire a college preparatory experience. Students study classic works and excerpts from contemporary fiction, non-fiction, drama, and poetry so that they may grasp the nature and variety of great literary works, refine their comprehension, analytic and appreciation skills, and use literature to make sense of their lives. refine their comprehension, analytic and appreciation skills, and use literature to make sense of their lives. Considerable time will be devoted to the writing process, and assessments will be varied and challenging.

Grade 12 ..... 1/2 credit

COLLEGE LITERATURE HONORS: MULTICULTURAL LITERATURE

This course seeks to introduce students to the multicultural realm of literature. The class will explore works by authors who exist outside of the canonical sphere in order to gain a better sense of Western culture’s diverse racial and ethnic sects. Class discussions will be focused on the following questions: How is culture defined? What are cultural studies? Are other smaller ethnic groups truly accepted by mainstream Western culture? How are cultures negatively stereotyped? This class will challenge students to think about the impact of cultural definitions.

Grade 12 ..... 1/2 credit

COLLEGE LITERATURE HONORS: THE SHORT STORY

The short story as an art form is constantly evolving: what some writer is experimenting with today may be a standard form of study twenty years from now. The ability to introduce students to the future of literature is an exciting prospect. Some story selections for this course will come from top literary magazines across the country and the world of today. The course will also examine stories from anthologies and collections by select authors who are considered the masters of the form. Students will be exposed to volumes of literature that far exceed what is typical of a traditional English class. Students who complete this course will have a richer literary background and a greater understanding of the world around them.

Grade 12 .....1/2 credit

CONTEMPORARY LITERATURE HONORS

Contemporary Literature will explore modern literature from the year 2000 onwards, focusing on discussions of current topics and techniques through a study of contemporary works of fiction. Students will focus on elevating reading, writing, and analytical skills in preparation for the challenges of the college classroom, with an emphasis on seminar discussion and complex analytical ideas. Text selections will highlight modern literary classics that bridge the gap between bestseller lists and college curricula. This year-long course will support students in developing an understanding of the connection between their prior three years of English and the rich new catalog of works published today. **Students will have the option to pursue an application to earn dual credit for this course through an accredited university; interested students must notify their teacher upon entering the class.**

Grade 12 ..... 1 credit

AP ENGLISH LITERATURE AND COMPOSITION

This course, designed for Advanced Placement, presents literature of all the major types on the level of a freshman college English course. Readings are organized in a broadly thematic way. Complexities of structure and style are examined along with the implications of content. Considerable time is devoted in the class to close examination of texts, both in discussion and in short written analysis. Poetry is studied, as it reflects the styles and attitudes of the period in which it was written. Writing assignments range from impromptu stream of consciousness to analytical essays. Students taking this course must take the AP Exam.

Grade 12 ..... 1 credit

ENGLISH ELECTIVES & SUPPLEMENTARY COURSES

CREATIVE WRITING

This course is designed to enhance students' creative writing abilities while deepening their appreciation of literature. We will approach writing literature by reading it. Students will read stories and poems, and at least one day a week will be devoted purely to discussions. These discussions will focus on questions such as: What makes a short story work? What choices does an author have to make in shaping a work? How does audience influence the writer's craft? Following discussions, students will work on elements of their own stories in lab.

Grades 9, 10, 11, 12 .....1/2 credit

FILM AND LITERATURE

This elective is designed with the film lover in mind; students who are interested in various forms of visual and oral storytelling will hone and enhance their analytical skills through this film-based course. Classic and contemporary films are used to anchor units of study; students will complement these efforts by reading works that thematically relate. Visual construction, lighting, music, sound, pacing, and historical context will all be emphasized. Students will also study archetypes, specifically heroes, anti-heroes, and villains, as they are challenged to confront ethical and moral issues in both film and literature.

Grades 9, 10, 11, 12 .....1/2 credit

**NEW MEDIA COMMUNICATIONS (JOURNALISM) 1**

This half-year course will teach students the skills necessary for communication in the digital age. This course captures the dynamics of today's ever-changing world of journalism with a real, hands-on approach. Students will be expected to understand the history of the media and its place in our society and understand and use Associated Press style. Journalism provides students with extensive training in writing, editing and rewriting material for publication. Throughout the course, students will become familiar with all aspects of journalism by writing news stories, editorials and features; writing headlines and cutlines; design layout using word processing and In-design software; and learn the art of teamwork. This course will use the production of the new online newspaper as the vehicle to teach students skills of traditional literacy as well as those of: information literacy, media literacy, and digital publication. In addition to these real-world skills, students will consider the ethics and business of producing news with an emphasis on the issues presented when doing so on the Internet.

Grades 9, 10, 11, 12 .....1/2 credit

**NEW MEDIA COMMUNICATIONS (JOURNALISM) 2**

***(Prerequisite: New Media Communications (Journalism) 1)***

In this half-year course, students will further their exploration of the role of journalists in society. They will produce longer, more in-depth news features employing each of the four types of media commonly used by today's on-line journalists: article writing, photojournalism, video broadcasting, and audio podcasting. Students in this class are expected to take leadership roles in working closely with the staff of our school's *Hilltop Beacon* to produce the highest quality content possible for publication on our website.

Grades 10, 11, 12 .....1/2 credit

**PSYCHOLOGY IN LITERATURE**

This is a course for students who enjoy delving into the depth and meaning behind a text in order to gain a greater insight into psychology. Various works of literature including plays, novels, short stories and films will be used, keeping in mind the basic tenets of psychology which will be taught at the beginning of the course. Students interested in psychology and/or English will be interested in this course because it will inspire them to read more critically to increase their knowledge of both subjects. Students who take this course in conjunction with or after AP Psychology will be able to better use the techniques and methods taught in this course in order to analyze different works of literature. It is important to note that such classes are not a prerequisite for this course. This course is offered in alternate years.

Grades 10, 11, 12 .....1/2 credit

**PUBLIC SPEAKING: OWNING THE CROWD**

One of the most critical skills for college and career success is the ability to present confidently in front of a crowd, but most students break into a sweat at the mere thought of presenting. This course instills in students the confidence and capability to remain cool under pressure, command an audience with ease, and connect with a crowd on a meaningful level. By studying a variety of modern presentations with a specific focus on TED talks, students will learn invaluable presentation skills, working to identify and share what resonates most powerfully with them. Students will learn to determine an appropriate length, format, tone, and approach, depending on the crowd and mission before them. In addition, elements such as vocal command, physical presence, eye contact, and memorization will all be emphasized.

Grades 9, 10, 11, 12 .....1/2 credit

**INDEPENDENT HUMANITIES RESEARCH**

This semester-length elective offers students an opportunity to research topics of personal interest in literature and the humanities. With an advisor, students are instructed to follow certain conventions of sophisticated scholarly inquiry and to produce an original investigative research paper. Students also have an opportunity to do creative writing which could include but is not limited to the short story, drama, poetry, screen play, song writing, a short novel or nonfiction. Some projects might be presented on CDs, DVDs or film. Students submit creative work to contests or for publication, and some research papers are submitted to contests and/or publications.

Grades 9, 10, 11, 12 ..... 1/2 credit per semester

**COLLEGE PREPARATORY STRATEGIES FOR SAT/ACT EXAMS**

This pass/fail course will teach the techniques needed to establish a strong foundation of content and strategy to successfully prepare students for the SAT and ACT exams. The course will focus on essential verbal and mathematical reasoning skills as well as time and stress management during testing.

Grades 10, 11, 12 ..... 1/2 credit

# MATHEMATICS

## Mathematics Department

### RESEARCH HONORS

### HONORS

### REGENTS

Algebra 1 RSH	Pre-Algebra 7				Math 7	Grade 7
Geometry RSH	Algebra 1 RSH	Algebra 1		Math 8		Grade 8
Algebra 2 RSH	Geometry RSH	Geometry H	Geometry	Algebra 1		Grade 9
AP Precalculus	Algebra 2 RSH	Algebra 2 H	Algebra 2	Geometry		Grade 10
AP Calculus BC	AP Precalculus	Precalculus H	Precalculus	Algebra 2	Algebra 2 A	Grade 11
(Fall) Multi Variable Calculus & Differential Equations (Spring)	AP Calculus BC	AP Calculus AB	Calculus	Precalc or College Math	Algebra 2 B	Grade 12

### Supplementary Courses

Math Labs are available for the following courses:

- Algebra 1
- Geometry
- Algebra 2

College Preparatory Strategies for SAT/ACT Exams

### Elective Courses

AP Calculus AB  
AP Calculus BC  
AP Precalculus  
AP Statistics  
Calculus  
Multivariable Calculus & Differential Equations  
Precalculus



**ALGEBRA 1**

Algebra 1 is a one-year course which introduces the student to the fundamentals of algebra. The algebra curriculum focuses largely on four conceptual categories: Number & Quantity, Algebra, Functions, and Statistics & Probability. Students will be introduced to the graphing calculator and will work with it in class during lessons appropriate to its use. Among the topics covered during the year will be order of: The Real Number System; Quantities; Seeing Structure in Expressions; Arithmetic with Polynomials and Rational Expressions; Creating Equations; Reasoning with Equations and Inequalities; Interpreting & Building Functions; Linear, Quadratic, and Exponential Models; Interpreting categorical and quantitative data. In addition to the development of skills necessary for the students progression to higher level courses in this subject area, we seek to cultivate a sense of appreciation of mathematics for its aesthetic value. This course concludes with the Algebra Regents Examination.

Grade 9 ..... 1 credit

**ALGEBRA 1, GEOMETRY, ALGEBRA 2 ACADEMIC STRATEGIES**

Lab classes are offered as support for those students who have identifiable weakness in mathematics. It is a supplement to the Regents level classes and is designed to reinforce the subject matter taught in the course. This class will meet on alternate days throughout the year.

Grades 9, 10, 11, 12 ..... 1 credit

**GEOMETRY**

*(Prerequisite: Algebra 1 or Equivalent)*

Geometry is a one-year course which introduces the student to the fundamentals of Geometry. Among the units of study covered during the year will be: Congruence; Similarity, Right Triangles, and Trigonometry; Circles; Expressing Geometric Properties with Equations; Geometric Measurement and Dimensions; Modeling with Geometry. In addition to the development of skills necessary for the students’ progression to higher level courses in this subject area, we seek to cultivate a sense of appreciation of mathematics for its aesthetic value. Students will develop skills in order to: Make sense of problems and persevere in solving them; Reason abstractly and quantitatively; Construct viable arguments and critique the reasoning of others; Model with mathematics; Use appropriate tools strategically; Attend to precision; Look for and make use of structure; Look for and express regularity in repeated reasoning. This course concludes with the Geometry Regents Examination.

Grades 9, 10 ..... 1 credit

**GEOMETRY HONORS**

*(Prerequisite: Algebra 1 or Equivalent)*

Geometry Honors is a one-year course which introduces the student to the fundamentals of Geometry. Many topics will be embellished. Problem solving and development of critical thinking skills will be a major component of this course. Students will be challenged by SAT-type questions, as well as by problems that have appeared on previous mathematics competitions. Students are expected to actively participate in classroom discussion and demonstrate outstanding achievement on a consistent basis. Among the units of study covered during the year will be: Congruence; Similarity, Right Triangles, and Trigonometry; Circles; Expressing Geometric Properties with Equations; Geometric Measurement and Dimensions; Modeling with Geometry. In addition to the development of skills necessary for the students’ progression to higher level courses in this subject area, we seek to cultivate a sense of appreciation of mathematics for its aesthetic value. Students will develop skills in order to: Make sense of problems and persevere in solving them; Reason abstractly and quantitatively; Construct viable arguments and critique the reasoning of others; Model with mathematics; Use appropriate tools strategically; Attend to precision; Look for and make use of structure; Look for and express regularity in repeated reasoning. This course concludes with the Geometry Regents Examination.

Grade 9 ..... 1 credit

**GEOMETRY RSH**

***(Prerequisite: Algebra 1 RSH)***

Geometry Research Honors is a one-year course which introduces the student to the fundamentals of Geometry. This New York State curriculum integrates algebra and geometry. Many topics will be embellished. Problem solving and development of critical thinking skills will be a major component of this course. Students will be challenged by SAT-type questions, as well as by problems that have appeared on previous mathematics competitions. Students are expected to actively participate in classroom discussion and demonstrate outstanding achievement on a consistent basis. All students enrolled in this course will be required to write a research paper and make an oral presentation at the Long Island Math Fair. Among the units of study covered during the year will be logic, congruent and similar triangles, formal and informal proofs, transformational geometry, solid geometry, circles, locus and coordinate geometry, and linear-quadratic systems of equations. In addition to the development of skills necessary for the students' progression to higher level courses in this subject area, we seek to cultivate a sense of appreciation of mathematics for its aesthetic value. This course concludes with the Geometry Regents Examination.

Grade 9 ..... 1 credit

**ALGEBRA 2**

***(Prerequisite: Algebra 1 or Equivalent and Geometry)***

Algebra 2 is a one-year course which introduces the student to the Advancement of Algebra in Algebra 2. Among the units of study covered during the year will be: Numbers & Quantity, Algebra, Functions, and Statistics and Probability. In addition to the development of skills necessary for the students progression to higher level courses in this subject area, we seek to cultivate a sense of appreciation of mathematics for its aesthetic value. Students will develop skills in order to: Make sense of problems and persevere in solving them; Reason abstractly and quantitatively; Construct viable arguments and critique the reasoning of others; Model with mathematics; Use appropriate tools strategically; Attend to precision; Look for and make use of structure; Look for and express regularity in repeated reasoning. This course concludes with the Algebra 2 Regents Examination.

Grades 10, 11 ..... 1 credit

**ALGEBRA 2 A**

***(Prerequisite: Algebra 1 or Equivalent and Geometry)***

Algebra 2 I is the first year of a two-year sequence, in which students will be introduced to the fundamentals of Algebra 2. Among the units of study covered during the year will be: Numbers & Quantity, Algebra, and Functions. In addition to the development of skills necessary for the students' progression to higher level courses in this subject area, we seek to cultivate a sense of appreciation of mathematics for its aesthetic value. Students will develop skills in order to: Make sense of problems and persevere in solving the; Reason abstractly and quantitatively; Construct viable arguments and critique the reasoning of others; Model with mathematics; Use appropriate tools strategically; Attend to precision; Look for and make use of structure; Look for and express regularity in repeated reasoning. This course concludes with a final exam.

Grades 10, 11 ..... 1 credit

ALGEBRA 2 B

(Prerequisite: Algebra 2 A or Algebra 2)

Algebra 2B is the second year of a comprehensive two-year Algebra 2 sequence, designed to equip students with a strong understanding of key mathematical concepts while preparing them for the New York State Regents Examination. Throughout the year, students will focus on mastering the fundamentals of Algebra 2, with an emphasis on Statistics and Probability, Trigonometry and a thorough review of core topics including Numbers & Quantity, Algebra, and Functions. This review is crucial for reinforcing concepts and ensuring readiness for the Regents Examination. Students will develop skills in order to: Make sense of problems and persevere in solving the; Reason abstractly and quantitatively; Construct viable arguments and critique the reasoning of others; Model with mathematics; Use appropriate tools strategically; Attend to precision; Look for and make use of structure; Look for and express regularity in repeated reasoning. Students will have the opportunity to take the Algebra 2 Regents Examination in both January and June, giving them multiple chances to demonstrate their knowledge and achieve the best possible results. This course is designed not only to prepare students for the Regents but also to foster a deep understanding of algebraic principles that will serve them in future mathematical and real-world applications.

Grades 10, 11 ..... 1 credit

ALGEBRA 2 HONORS

(Prerequisite: Algebra 1 or Equivalent and Geometry H)

Algebra 2 H is a one-year course which introduces the student to the Advancement of Algebra in Algebra 2. Many topics will be embellished. Problem solving and development of critical thinking skills will be a major component of this course. Students will be challenged by SAT-type questions, as well as by problems that have appeared on previous mathematics competitions. Students are expected to actively participate in classroom discussion and demonstrate outstanding achievement on a consistent basis. Among the units of study covered during the year will be: Numbers & Quantity, Algebra, Functions, and Statistics and Probability. In addition to the development of skills necessary for the students progression to higher level courses in this subject area, we seek to cultivate a sense of appreciation of mathematics for its aesthetic value. Students will develop skills in order to: Make sense of problems and persevere in solving them; Reason abstractly and quantitatively; Construct viable arguments and critique the reasoning of others; Model with mathematics; Use appropriate tools strategically; Attend to precision. This course concludes with the Algebra 2 Regents Examination.

Grades 10, 11 ..... 1 credit

ALGEBRA 2 RSH

(Prerequisite: Algebra 1 RSH or Equivalent and Geometry RSH)

Algebra 2 RSH is a one-year course which introduces the student to the Advancement of Algebra in Algebra 2. Many topics will be embellished. Problem solving and development of critical thinking skills will be a major component of this course. Students will be challenged by SAT-type questions, as well as by problems that have appeared on previous mathematics competitions. Students are expected to actively participate in classroom discussion and demonstrate outstanding achievement on a consistent basis. Among the units of study covered during the year will be: Numbers & Quantity, Algebra, Functions, and Statistics and Probability. In addition to the development of skills necessary for the students progression to higher level courses in this subject area, we seek to cultivate a sense of appreciation of mathematics for its aesthetic value. Students will develop skills in order to: Make sense of problems and persevere in solving them; Reason abstractly and quantitatively; Construct viable arguments and critique the reasoning of others; Model with mathematics; Use appropriate tools strategically; Attend to precision. This course concludes with the Algebra 2 Regents Examination

Grades 9, 10 ..... 1 credit

**PRECALCULUS**

**(Prerequisite: Algebra 2)**

This course is a continuation of the mathematics of the eleventh year with the specific goal of teaching prerequisites for calculus. The content will include the real number system with an extension to include complex numbers, function theory, limit of a function, analytic geometry of two and three dimensions, and formulas for mensuration of solids.

Grades 11, 12 ..... 1 credit

**PRECALCULUS HONORS**

**(Prerequisite: Algebra 2 RSH)**

This course is the Pre-Calculus course for juniors in the advanced math sequence. The specific goal is to teach the necessary prerequisites for studying Calculus in the senior year. The usual topics of the Pre-Calculus will be studied in greater depth, and additional enrichment topics will be added as time permits.

Grades 11, 12 ..... 1 credit

**AP PRECALCULUS**

**(Prerequisite: Algebra 2 RSH or Department Chair Approval)**

This course is the fourth year of the sequence. It is designed to allow our most gifted mathematics students to continue in this challenging program offered by the department. It is an embellishment of Pre-Calculus Honors with many areas of enrichment provided throughout the year. The research component will require students to complete several independent study projects addressing topics from both within and outside of the normal curriculum. Students taking this course must take the AP Exam.

Grades 10, 11 ..... 1 credit

**CALCULUS**

**(Prerequisite: Precalculus)**

This course is designed for students who have completed the full high school mathematics program through pre-calculus mathematics prior to their senior year. It is a less rigorous course than either of the AP Calculus Courses. Students will be introduced to the fundamentals of differential and integral calculus. Students will take a final examination upon the conclusion of this course.

Grade 12 ..... 1 credit

**COLLEGE MATH**

**(Prerequisite: Completion of Algebra 2 B or Algebra 2)**

College Math is offered to only those students who have completed the New York State requirements for mathematics and would like to enrich their mathematical background in topics included in an advanced Algebra and Trigonometry course. Topics to be included: Probability and Statistics, Trigonometry, Theory of Equations, Sequences and Series, and Exponential and Logarithmic Functions. (Students will be exposed to the power of the graphing calculator).

Grade 12 ..... 1 credit

**AP CALCULUS AB**

**(Prerequisite: Precalculus or Precalculus Honors)**

This course is designed for the able and ambitious students who have completed the full high school mathematics program through Pre-Calculus mathematics prior to their senior year. It follows the suggested outline of the AB Advanced Placement Program recommended by the College Entrance Examination Board. The curriculum includes units on differential and integral calculus with applications to velocity and acceleration, maxima-minima theory, related rates, areas, and volumes. Students taking this course must take the AP Exam.

Grades 11, 12 ..... 1 credit

AP CALCULUS BC

(Prerequisite: Precalculus Research Honors or recommendation of Precalculus Honors teacher)

This course is designed for the able and ambitious students who have completed the full high school mathematics program through Pre-Calculus mathematics prior to their senior year. The topics covered will follow the suggested outline of the BC Advanced Placement Program recommended by the College Entrance Examination Board. The curriculum will include units on: review and extension of analytic geometry, differential calculus of algebraic functions and their applications, the calculus of algebraic functions, sequences, series, elementary differential equations and their applications, the calculus of elementary transcendental functions and their applications. Content and applications will be comparable to the offerings of a college freshman course. The course meets for 7 ½ periods per week. Students taking this course must take the AP Exam.

Grades 11, 12 ..... 1 credit

ELECTIVES

AP STATISTICS

(Prerequisite: Completion of Algebra 2)

This one-year course introduces students to the major concepts for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1. Exploring Data: Observing patterns and departures from patterns. 2. Planning a Study: Deciding what and how to measure. 3. Anticipating Patterns in Advance: Producing models using probability and simulation. 4. Statistical Inference: Confirming models. Computers and graphing calculators will be used regularly as an aid to analyzing data and solving problems. This course is an excellent option for anyone who has successfully completed Math 3H regardless of the student’s intended college major. It may be taken in either the junior or senior year instead of pre-calculus, simultaneously with it, instead of AP calculus or concurrently with it. Students taking this course must take the AP Exam.

Grades 11, 12 ..... 1 credit

MULTI-VARIABLE CALCULUS

(Prerequisite: AP Calculus BC)

This course is a semester course. Multivariable Calculus is a continuation of calculus. Its topics include: vectors in a plane and space, partial differentiation, multiple integration and vector calculus.

Grade 12 ..... 1/2 credit

DIFFERENTIAL EQUATIONS

(Prerequisite: AP Calculus BC)

This is a semester course which provides an in-depth study of first-order differential equations, systems of differential equations, and higher-order equations. Students will learn to use numerical techniques, slope fields, phase planes, and null clines to extract information about models. Students will learn techniques for solving equations, integrating factors, methods of undetermined coefficients, variation of parameters, eigenvalues, and Laplace transforms.

Grade 12 ..... 1/2 credit

COLLEGE PREPARATORY STRATEGIES FOR SAT/ACT EXAMS

This pass/fail course will teach the techniques needed to establish a strong foundation of content and strategy to successfully prepare you for the SAT and ACT exams. The course will focus on essential verbal and mathematical reasoning skills as well as time and stress management during testing and conduct skills reviews.

Grades 10, 11, 12 ..... 1/2 credit

## MUSIC DEPARTMENT & THEATER

### Music Department & Theater

The music department offers a variety of courses in both instrumental and vocal music. These courses are provided for personal enjoyment as well as for skill development. Students may use a music sequence as part of the requirements for a Regents diploma by participating for at least two years in a performing group or completing one year of music electives.

#### **JAZZ CHOIR**

This class meets after school every Tuesday. Jazz Choir students will receive a grade and credit for participation. This full year course will focus on singing jazz and related contemporary genres. Each rehearsal is devoted to rehearsing parts, focusing on blend, dynamics, intonation, articulation, expression, interpretation, and stage presence.

Grades 9, 10, 11, 12 ..... 1/4 credit

#### **THEATER**

Theatre is a semester-long course designed for all students regardless of their theatre background. This course will focus on developing acting skills through improvisation, theatre games, monologues, scene work, script analysis, and performance.

Grades 9, 10, 11, 12 ..... 1/2 credit

#### **CHAMBER SINGERS**

***(Prerequisite: 1 Year in Roslyn choral program or audition with director)***

Open to singers in grades 10-12. Students in Chamber Singers class will further develop the vocal, performance, and music literacy skills built in Mixed Chorus and Jazz Choir. Chamber Singers are eligible to audition for the Nassau County High School Chorus and the New York All-State Choirs (via NYSSMA). Besides performance at school concerts (2), Chamber Singers perform when requested at various special events and meetings in and outside of school (trips & community service opportunities). Music selections span many genres including Broadway, Classical, Pop, and more. This course can be taken in multiple years.

This course meets the graduation requirement for the Art/Music credit.

Grades 10, 11, 12 ..... 1 credit

#### **MIXED CHORUS**

Mixed Chorus provides an exciting and engaging vocal experience for students. This performance-based class focuses on personal growth and development of the entire individual through the art of singing. It is open to all students who love singing, are willing to work as a team and can work cooperatively with peers. Chorus members are eligible to audition for the Nassau County High School Chorus and the New York All-State Choirs (via NYSSMA). Music selections span many genres including Broadway, Classical, Pop, and more. This course can be taken in multiple years.

This course meets the graduation requirement for the Art/Music credit.

Grades 9, 10, 11, 12 ..... 1 credit

**SYMPHONIC BAND**

***(Prerequisite: Completed middle school band or audition by director)***

The High School Symphonic Band is a performance organization that explores literature appropriate for the development of rhythm, tone, pitch, balance and blend within the band. Enrollment is determined by audition and/or permission of the director. In general, a band student must have completed several years of successful study on a band instrument (brass, woodwind, percussion) and be playing at NYSSMA level 3 to be eligible for performance of intermediate band literature. Participation in the Symphonic Band involves the study, rehearsal, and performance of intermediate band literature. Students will be playing at NYSSMA level 3, 4, and 5. Enrolled band members are expected to attend daily scheduled rehearsals and weekly instrumental lessons which focus on the improvement of instrumental techniques. During the first six weeks of school, Symphonic Band members will work on marching band music as part of the curriculum. Students are expected to perform in all performances of the Symphonic Band before the public during the school year. This includes several evening concerts, and may include performance at the NYSSMA Major Organization Festival, Carnegie Hall, or Lincoln Center. Except for seniors, band members are expected to perform at graduation ceremonies. Select students may also participate in special county or state music festivals. Symphonic Band members are encouraged to participate in the competitive Marching Band.

This course meets the graduation requirement for the Art/Music credit.

Grades 9, 10, 11, 12 ..... 1 credit

**WIND ENSEMBLE**

***(Prerequisite: Audition with band director or the attainment of a 91 on All-State solo or a 93 on a Grade 6 NYSSMA Solo or a 95 on a Grade 5 NYSSMA Solo)***

Enrollment is determined solely by audition or permission of the Wind Ensemble director. Participation includes the rehearsal and performance of the most advanced band literature. Therefore, students playing proficiently at the New York State School Music Association level 5 or 6 will be eligible for enrollment. The size of the group is based on a balanced instrumentation; so, some students may not qualify. Wind Ensemble students are expected to perform at the highest level of musicianship and act in a professional manner. Enrolled members are expected to attend daily scheduled rehearsals and weekly instrumental lessons which focus on the improvement of instrumental techniques. Students are expected to perform in all performances of the Wind Ensemble before the public during the school year. This includes several evening concerts, graduation and may include performance at the NYSSMA Major Organization Festival, Carnegie Hall, or Lincoln Center.

This course meets the graduation requirement for the Art/Music credit.

Grades 9, 10, 11, 12 ..... 1 credit

**JAZZ PROJECT**

***(Prerequisite: Audition with band director)***

Enrollment is determined solely by audition or permission of the Jazz Band director. The Jazz Band studies and performs traditional and contemporary pop jazz styles. Performances are at two seasonal concerts. The Jazz Band rehearses one evening (schedule to be determined after Marching Band Season).

Grades 9, 10, 11, 12 .....1/4 credit



CHAMBER ORCHESTRA

(Prerequisite: Audition with orchestra instructor or the attainment of an A on All-State solo or an A on a Grade 6 NYSSMA Solo, or A+ on a Grade 5 NYSSMA Solo)

Enrollment is determined solely by audition or permission of the director. Participation includes the rehearsal and performance of the most advanced orchestral literature. Therefore, students playing proficiently at the New York State School Music Association level 5 or 6 will be eligible for enrollment. The size of the group is based on a balanced instrumentation; so some students may not qualify. Chamber Orchestra students are expected to perform at the highest level of musicianship and act in a professional manner. Enrolled members are expected to attend daily scheduled rehearsals and weekly instrumental lessons which focus on the improvement of instrumental techniques. Students are expected to perform in all performances of the Chamber Orchestra before the public during the school year.

This course meets the graduation requirement for the Art/Music credit.

Grades 9, 10, 11, 12 ..... 1 credit

STRING ORCHESTRA

(Prerequisite: Completed middle school orchestra or audition by director)

The High School String Orchestra is a performance organization that explores literature appropriate for the development of rhythm, tone, pitch, balance and blend within the orchestra. Enrollment is determined by audition and/or permission of the director. In general, a string orchestra student must have completed several years of successful study on a stringed instrument and be playing at NYSSMA level 3 to be eligible for enrollment. Participation in the String Orchestra involves the study, rehearsal, and performance of intermediate orchestral literature. Students will be playing at NYSSMA level 4. Enrolled orchestra members are expected to attend daily scheduled rehearsals and weekly instrumental lessons which focus on the improvement of instrumental techniques. Students are expected to perform in all performances of the String Orchestra before the public during the school year.

This course meets the graduation requirement for the Art/Music credit.

Grades 9, 10, 11, 12 ..... 1 credit

MUSIC THEORY I

This full-year course covers, but is not limited to, the following topics: notes, rhythms, clefs, time signatures, accidentals, whole & half-steps, intervals, scales, triads, seventh chords, inversions, counterpoint, voice leading, chord progressions, cadences, non-harmonic tones, figured bass, secondary dominants, sight singing, aural identification of intervals & chords and melodic, harmonic & rhythmic dictation. This course is intended to be the first in a two-course sequence, the second being Advanced Placement Music Theory.

Grades 9, 10, 11, 12 ..... 1 credit

AP MUSIC THEORY  
(Prerequisite: Music Theory I)  
This full-year course reinforces and expands on a collegiate level, concepts covered in Music Theory I. This course is intended to be the second in a two-course sequence, the first being Music Theory I. This course is offered in alternate years.  
Grades 10, 11, 12 ..... 1 credit

 Indicates that the course is not running for the upcoming school year but will be offered in alternating years.



## PHYSICAL EDUCATION & HEALTH

### Physical Education & Health

#### HEALTH EDUCATION

The health education program is designed to develop an awareness of the physical, mental, and social aspects of a healthy lifestyle. Students will examine human behavior to achieve the skills, knowledge and attitudes that will allow them to obtain an optimal quality of life and well-being.

#### HEALTH

This mandatory course gives students the opportunity to study the factors involved with the development of good mental, physical and social wellness. Contemporary health units such as Communication, Stress Management, Substance Abuse, Human Sexuality, AIDS Education, Violence Prevention and Parenting are emphasized. Students are provided with factual information to heighten knowledge so that they may make well-informed and sound choices, develop skills and attitudes, and examine the benefits of a positive, healthy lifestyle.

Grades 9, 10, 11, 12 .....1/2 credit

#### FIRST AID CERTIFICATION

This course will teach students to identify and react in various emergency situations. This course provides students with the opportunity to become certified in First Aid, Cardiovascular Pulmonary Resuscitation and the use of an Automated External Defibrillator.

Grades 9, 10, 11, 12 .....1/2 credit

#### PHYSICAL EDUCATION

Each student must select one physical education course from the selection below. All students in grade 9 will be enrolled in PE, which will be only for students in grade 9. Students in grades 10-12 can choose either Physical Education, Physical Education – Extreme, or Physical Education – Yoga. The objective of physical education is to provide all students with opportunities for mental, physical, and social growth and development through physical activities.

All courses are coeducational. Students must dress appropriately for class, participate actively, display sporting behaviors, and complete assessments and projects for each unit to earn credit each semester. Each high school student must complete eight semesters of physical education to meet the graduation requirement of this subject area. As an alternate-day semester course, the high school attendance policy in place allows only five absences per semester in physical education. Students will be scheduled for additional physical education class in a subsequent semester if they receive a grade of "No Credit."

#### PE

This class will expose students to a wide variety of team and individual sports, adventure education, lifetime and leisure experiences. The program is designed to provide all students with opportunities for mental, physical and social growth and development through physical activities.

Grades 9, 10, 11, 12 .....1/2 credit

**PE – EXTREME**

This class will expose students to a wide variety of team and individual sports, adventure education, lifetime and leisure experiences at a more competitive level than traditional physical education. The program is designed to provide all students with opportunities for mental, physical and social growth and development through physical activities.

Grades 10, 11, 12 .....1/2 credit

**PE – YOGA**

This is an introductory yoga course designed to introduce students, safely and accessibly, to the basic postures, breathing techniques, and relaxation methods of yoga. Students will experience the benefits of stretching, moving, and breathing freely as they relieve built up stress, learn to relax, and ultimately get more out of day-to-day life.

Grades 10, 11, 12 .....1/2 credit

**ADAPTED PHYSICAL EDUCATION**

*(Prerequisite: Recommendation of the school nurse, student's physician, and physical education department chairperson)*

This individualized class is for students who require an individualized, adapted physical education program. The teacher provides self-paced activities geared to the individual's varying abilities and interests.

Grades 9, 10, 11, 12 .....1/2 credit

## SCIENCE

### Science Department

Science 8			Earth Science Honors			Grade 8	
Earth Science	Earth Science Honors	Living Environment	Living Environment Honors			Grade 9	
Living Environment	Living Environment Honors	Chemistry	Chemistry Honors			Grade 10	
General Chemistry	Chemistry	Chemistry Honors	Physics	AP Physics 1	AP Physics 1 & 2	AP Physics C	Grade 11
General Physics	Physics	AP Physics 1	Advanced Placement Courses/Electives			Grade 12	

### Supplementary Courses

Earth Science Support  
Living Environment Support  
AP Environmental Science Strategies

*\*Available to Students in Grade 9*

### AP Courses

AP Biology  
AP Chemistry  
AP Environmental Science  
AP Physics 1  
AP Physics 1 & 2  
AP Physics C

### Elective Courses

Advanced Pre-Med  
Astronomy\*  
Epidemiology\*  
Forensic Science\*  
Hydroponics\*  
Marine Biology\*  
Pre-Med  
Pre-Vet\*  
#

*\*Pending Board of Education Approval*

In order to be knowledgeable and successful in our increasingly technological world, a study of the four major disciplines of science is an integral part of a well-rounded high school educational experience. Completing the four year sequence in science is a challenge that all of our students should embrace and pursue at the appropriate level. It is important that each Roslyn student explore the fundamentals of earth science, biology, chemistry, and physics as they prepare for their post-high school endeavors. Each of these disciplines explores different aspects of the natural world and requires unique skill sets for students to master.

Elective courses are designed to expose students to new ways of thinking, stimulate curiosity, broaden and deepen understanding, and provide career guidance. These courses, taken concurrently with our core course offerings, ensure that our students will be well equipped to make intelligent decisions as members of the global community and be able to continue their education, both formally and informally, as life-long learners. The Living Environment (or Honors Biology) is required for graduation.

**CORE COURSES**  
**PHYSICAL SETTING-EARTH SCIENCE REGENTS**

This course is based on the New York State Regents Syllabus in The Physical Setting: Earth Science. By means of numerous laboratory investigations, and classroom recitation, students study the basic processes producing changes in the Earth's crust, atmosphere, oceans, and surface. Theoretical aspects of the subject are covered through classwork, laboratory investigations, mathematical abstractions, visual materials, fieldwork and independent investigations. Classes meet in double and single periods on alternate days. Students are required to complete 1200 minutes of satisfactory laboratory time to sit for the Regents Exam in June.

Grade 9 ..... 1 credit

**PHYSICAL SETTING-EARTH SCIENCE HONORS**

Earth Science Honors is an honors course offered to those students who demonstrate outstanding ability and achievement in Science 8. Students will be required to complete several projects during the school year. Students enrolled in this course must be prepared for enriched studies in celestial motion, plate tectonics, insolation, the rock cycle, the water cycle, meteorology, and the interpretation of geologic history. Student success will depend upon a high degree of ability, motivation, and effort. Classes meet in single and double periods on alternate days. Students are prepared for The New York State Regents Exam. Students are required to complete 1200 minutes of laboratory time to sit for the Regents Exam in June.

Grade 9 ..... 1 credit

**THE LIVING ENVIRONMENT REGENTS**  
**(Prerequisite: Earth Science)**

This course is based on the New York State Regents Syllabus in The Living Environment. Students are expected to master a body of biological concepts and skills through laboratory experiments and other forms of study. Classes meet in double and single periods on alternate days. Students are required to complete 1200 minutes of satisfactory laboratory time to sit for the Regents Exam in June.

Grades 9, 10 ..... 1 credit

THE LIVING ENVIRONMENT HONORS

(Prerequisite: Department recommends that students have a grade of 90 or better in Honors Earth Science)

This course is based on the New York State Regents Syllabus in The Living Environment and the SAT II Examination in Biology. This is an intensive, enriched program focusing on a molecular approach to biology as well as the comparative adaptations of selected organisms for adaptive survival. Students are also introduced to material that will prepare them for the SAT II Biology E/M Exam in June. Classes meet in double and single periods on alternate days. Students are required to complete 1200 minutes of satisfactory laboratory time to sit for the Regents Exam in June.

Grades 9, 10 ..... 1 credit

PHYSICAL SETTING-GENERAL CHEMISTRY

(Prerequisite: Two years of Regents Sciences)

This course will explore major concepts in Chemistry through exploratory laboratory activities, projects, videos and virtual experiences. Fundamental concepts include atomic structure, chemical reactions, nuclear chemistry, periodic table, behavior of matter, heat and energy. Connections will be made to real-world applications and experiences.

Grade 11 ..... 1 credit

PHYSICAL SETTING-CHEMISTRY REGENTS

(Prerequisite: Earth Science, Living Environment, Geometry)

This course is based on the New York State Regents Syllabus in The Physical Setting: Chemistry. The course develops the unifying principles of chemistry and includes the topics of: atomic structure, properties of matter, the periodic table, bonding, organic chemistry and nuclear chemistry. Classes meet in double and single periods on alternate days. Students are required to complete 1200 minutes of satisfactory laboratory time to sit for the Regents Exam in June.

Grades 10, 11 ..... 1 credit

PHYSICAL SETTING-CHEMISTRY HONORS

(Prerequisite: Earth Science, Living Environment, Geometry. The department recommends that students have a grade of 90 or above in Living Environment Honors. Corequisite: Algebra 2 CC)

This course explores the topics covered in Regents Chemistry but in greater depth. Students are also introduced to material that will help prepare them for the SAT II Chemistry Exam in June. This course prepares students for AP Chemistry. Classes meet in double and single periods on alternate days. Students are required to complete 1200 minutes of satisfactory laboratory time to sit for the Regents Exam in June.

Grades 10, 11 ..... 1 credit

PHYSICAL SETTING-GENERAL PHYSICS

(Prerequisite: Two years of Regents Sciences)

This course is designed for students to investigate fundamental physics as it is applied to real-world phenomena. Students will spend significant time completing hands-on activities, where concepts will be stressed over mathematics. Major topics include: motion, forces, electricity, magnetism, waves, optics and energy.

Grade 12 ..... 1 credit

**PHYSICAL SETTING-PHYSICS REGENTS**

***(Recommended Prerequisite: Chemistry or Chemistry Honors, Algebra 2 and Trigonometry)***

This course is based on the New York State Regents Syllabus in The Physical Setting: Physics. The study of the fundamental laws of gravitation, conservation and field theory are key ideas throughout the course. Problem solving and interpretation of empirical data are stressed. Students use mathematical models and equations to solve physics problems. Classes meet in double and single periods on alternate days. Students are required to complete 1200 minutes of satisfactory laboratory time to sit for the Regents Exam in June.

Grades 11, 12 ..... 1 credit

**ADVANCED PLACEMENT COURSES**

The AP Science Program is intended for students to further explore their understanding of the natural world. The pacing, content and assessments are all at the AP level and students are encouraged to choose a course that they are interested in. Students may earn college credit through Adelphi University at a reduced rate. Students are required to sit for the AP Exam.

**AP BIOLOGY**

***(Prerequisite: Department recommends that students have a grade of 90 or above in three Honor sciences)***

This is a college level program in biology studying the various aspects of comparative adaptations of selected organisms for survival. This course is for talented and dedicated science students with a special interest in biology. Classes meet in single and double periods on alternate days. Students who take this course are encouraged to take physics, either as a corequisite, prerequisite or in a subsequent year. Students taking this course must take the AP Exam.

Grades 11, 12 ..... 1 credit

**AP CHEMISTRY**

***(Prerequisite: Department recommends that students have a grade of 90 or above in three sciences, including Regents or Honors Chemistry)***

This is a college level program in chemistry studying the various aspects of matter and how it interacts. This course is for talented and dedicated science students with a special interest in chemistry. Classes meet in double and single periods on alternate days. Students who take this course are encouraged to take physics, either as a corequisite, prerequisite or in a subsequent year. Students taking this course must take the AP Exam.

Grades 11, 12 ..... 1 credit

**AP PHYSICS 1**

***(Prerequisite: Department recommends that students have a grade of 90 or above in three sciences, Precalculus)***

This course is equivalent to a 1st semester college physics course for advanced students having an aptitude for science and math. Students explore principles of Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory to simple circuits. The course is based on six Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world. Emphasis is placed upon developing problem solving skills. Facility in algebra and geometry is necessary. Students taking this course must take the AP Exam. Classes meet in double and single periods on alternate days.

Grades 11, 12 ..... 1 credit

AP PHYSICS 1 & 2

(Prerequisite: Department recommends that students have a grade of 90 or above in three sciences, Precalculus)

This course is equivalent to a 1<sup>ST</sup> and 2<sup>nd</sup> semester college physics course. Students explore principles of Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory to simple circuits; principles of fluids; thermodynamics; electricity; magnetism; optics; and topics in modern physics. Classes meet for two periods every day. Students taking this course are expected to take both the AP Physics 1 and the AP Physics 2 Exams. *Students who already took AP Physics 1 are not eligible to take this class.*

Grades 11, 12 ..... 2 credits

AP PHYSICS C (Mechanics and Electricity and Magnetism)

(Prerequisite/Corequisite: AP Calculus)

The AP Physics C: Mechanics course applies both differential and integral calculus and provides instruction in each of the following six content areas: Kinematics, Newton’s laws of motion, Work, Energy, Power, Systems of particles, Circular motion and Oscillations. The AP Physics C: Electricity and Magnetism course applies both differential and integral calculus, and builds upon the AP Physics C: Mechanics course by providing instruction in each of the following five content areas: Electrostatics, Conductors, Electric circuits, Magnetic fields and Electromagnetism. Classes meet in double and single periods on alternate days. Students taking this course must take the AP Exam.

Grade 12 ..... 1 credit

AP ENVIRONMENTAL SCIENCE

(Prerequisite: 90 or higher in Honors Level Earth Science, Living Environment and Chemistry)

This class is designed for strong, hard-working science students. This extremely challenging course follows the Advanced Placement Environmental Science curriculum. 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. They will also identify and analyze environmental problems, both natural and human-made, and evaluate the relative risks associated with these problems. Students will also examine alternative solutions for resolving or preventing current issues in environmental science. Classes meet in double and single periods on alternate days. Students taking this course must take the AP Exam.

Grades 11, 12 ..... 1 credit

ELECTIVES

**ASTRONOMY: EXPLORE THE WONDERS OF THE UNIVERSE!**

Ever wondered what’s out there in the vast expanse of space? Blast off in this thrilling course where you’ll explore the mysteries of our solar system, distant galaxies, and the possibility of alien life. Through stargazing, hands-on activities, and trips to planetariums, you’ll uncover the wonders of the universe and dive into the latest space missions. Get ready for a cosmic adventure that’ll leave you starstruck! This course is offered in rotating years.

Grades 9, 10, 11, 12 ..... 1/2 credit

 Indicates that the course is not running for the upcoming school year but will be offered in alternating years.

### EPIDEMIOLOGY: DISEASE AND YOU

How do diseases spread, and how can we fight them? In this course, you'll uncover the science of disease, from the common cold to chronic conditions like diabetes and heart disease. Learn how health professionals track outbreaks, diagnose ailments, and stop the spread of illness. With real-life examples and up-to-date research, you'll understand how our bodies respond to sickness and gain valuable insights into the world of public health and medicine! This course is offered in rotating years.

Grades 9, 10, 11, 12 ..... 1/2 credit

### FORENSIC SCIENCE: CRIME-SOLVING WITH SCIENCE!

Step into the shoes of a crime scene investigator! In this thrilling course, you'll solve mysteries using real forensic techniques like fingerprinting, DNA analysis, and crime scene photography. You'll apply your skills to real case studies, unraveling the science behind criminal investigations. Whether you're a fan of crime shows or thinking of a future in law enforcement, this class will give you the experience and knowledge of a real-life detective! This course is offered in rotating years.

Grades 9, 10, 11, 12 ..... 1/2 credit

### HYDROPONICS: GROWING THE FUTURE

Want to be part of the next big farming revolution? In this innovative course, you'll discover the power of growing plants without soil! Dive into the world of hydroponics, where you'll design, build, and nurture your own soil-free garden using cutting-edge technology. Learn to grow everything from lettuce to strawberries while mastering techniques like deep water culture and aeroponics. You'll uncover the science behind sustainable farming, food security, and water conservation—all while helping to shape the future of agriculture! This course is offered in rotating years.

Grades 9, 10, 11, 12 ..... 1/2 credit

### MARINE BIOLOGY

Dive deep into the ocean's secrets in this exciting Marine Biology course! From the local coastline to the most exotic underwater creatures, you'll explore the diverse life forms of the ocean and their ecosystems. With hands-on activities like caring for fish tanks and conducting oceanic research, you'll also tackle the urgent environmental challenges facing our seas today. Get ready to make a splash and unlock the mysteries of marine life! This course is offered in rotating years.

Grades 9, 10, 11, 12 ..... 1/2 credit

### PRE-MED

**(Prerequisite: Living Environment)**

Ready to explore the world of medicine up close? In Pre-Med, you'll step into a world of cutting-edge medical technology and human anatomy, using the Anatomage Dissection Table with actual scans of human cadavers for realistic, virtual dissections. From studying organs to the brain, you'll experience medical school-level learning while gaining a deeper understanding of how the human body functions. Whether you dream of being a doctor or a scientist, this course will give you the skills and knowledge to take your passion for medicine to the next level! This course is offered in rotating years.

Grades 10, 11, 12 ..... 1/2 credit

 Indicates that the course is not running for the upcoming school year but will be offered in alternating years.



**ADVANCED PRE-MED**

***(Prerequisite: Pre-Med)***

Take your love for medicine further in this exciting Advanced Pre-Med course! Building on everything you learned in Pre-Med; you'll dive deeper into human anatomy with even more hands-on virtual dissection and case studies using the state-of-the-art Anatomage table. You'll explore real-world medical challenges and complex systems of the human body. Whether you're planning to be a doctor, nurse, or healthcare innovator, this course will fuel your future medical career with knowledge and hands-on experience!

Grades 10, 11, 12 ..... 1/2 credit

**PRE-VET: ANIMAL CARE IN ACTION!**

Are you passionate about animals or dreaming of becoming a vet? This course is your first step toward making that dream a reality! Dive into the exciting world of animal care, where you'll explore biology, animal behavior, and health through hands-on learning. Explore real-life case studies and solve problems using the cutting-edge Anatomage table, featuring over 100 virtual animal cadavers, to learn how vets diagnose and treat animals. Get ready for field trips, meet inspiring guest speakers, and experience the behind-the-scenes action of the animal science field. If you love animals, this course will give you a taste of what it's really like to care for animals every day!

Grades 9, 10, 11, 12 ..... 1/2 credit

## SOCIAL STUDIES

The Social Studies program is a four-year sequential requirement. By studying the various social science disciplines - history, geography, economics, political science, anthropology, psychology and sociology students gain an understanding of modern society as they acquire the skills needed to become active and effective citizens in a democratic society. From the 9th through 12th grades, courses are based on and closely follow the State's recommended curriculum. At each of the four grade levels students are given certain options to choose courses that best meet their needs and interests.

### Social Studies Department

Global History 1	Global History 1 Honors			Grade 9
Global History 2	Global History 2 Honors	World Humanities Seminar H**	AP European History	Grade 10
U.S. History & Government	U.S. History & Gov't. Honors	AP U.S. History		Grade 11
Participation in Government	Participation in Government H	AP U.S. Government & Politics		Grade 12
Economics	Economics H	AP Macroeconomics		

### Electives

AP Human Geography<sup>‡</sup>  
 AP Psychology  
 Child Psychology\*  
 CSI Roslyn: Investigative Law

\* Available to Students in Grade 9

The History of Ethics: From Genesis to COVID\*  
 Psychology\*

<sup>‡</sup>Pending Board of Education Approval

\*\* Indicates that this course has a corequisite English course to create a humanities block.

**GRADE 9**  
**GLOBAL HISTORY & GEOGRAPHY 1**

This course is the first year of a two-year Global History curriculum. The Global I curriculum is designed to give students an overview of the events that have shaped the history of the world from the Paleolithic era through the late 1700s. The curriculum allows students to compare the development of civilizations in Europe, the Middle East, China, India, Japan, Africa, and Latin America and promotes an appreciation and understanding of the interdependence of societies. This is the first year of a two-year sequence in Global History.

Grade 9 ..... 1 credit

**GLOBAL HISTORY & GEOGRAPHY 1 HONORS**

This course is a discussion-intensive approach to the first year of World History. Classroom discussion is in large part devoted to historical, philosophical and artistic reflection. The history curriculum proceeds from primitive man and early civilizations to 18th century absolutism and the scientific revolution. Because the course relies heavily on discussion, the student must be prepared to actively engage in these classroom conversations on a regular basis.

Grade 9 ..... 1 credit

**GRADE 10**  
**GLOBAL HISTORY & GEOGRAPHY 2**

This course is the second year of a two-year Global History curriculum. Global History 2 completes the sequence begun in freshman year, tracing world history from the 1700's to the present. Major events include the Scientific Revolution and Enlightenment, French Revolution, Industrial Revolution, Age of Imperialism, the two world wars, and postwar independence movements. This is the second year of a two-year sequence in Global History and culminates in the Global History and Geography Regents Examination at the completion of Global History 2.

Grade 10 ..... 1 credit

**GLOBAL HISTORY & GEOGRAPHY 2 HONORS**

This advanced elective for highly motivated students follows the curriculum design of Global History 2. An emphasis on critical thinking and analytical skills brings the student into contact with the political, social, and economic ideas out of which the modern world emerges. This course is the second year of a two-year sequence in Global History and culminates in the Regents Examination in Global History.

Grade 10 ..... 1 credit

**WORLD HUMANITIES SEMINAR HONORS – SOCIAL STUDIES**

***(Corequisite: World Humanities Seminar Honors – English)***

World Humanities is a fully accredited option for sophomores. It is the equivalent of the full-year of Global History Honors. World Humanities follows an interdisciplinary, humanities-style approach to the sophomore honors curriculum. The class is structured along thematic lines, with the literature following the lead of Social Studies. The major literary units would be as follows: A Tale of Two Cities (French Revolution and aftermath); a non-fiction unit, including such writers as Locke and Rousseau (the Enlightenment and its “backlash”); a poetry unit (Early 19th century Romanticism); Frankenstein (Industrial Revolution); Siddhartha (Early Colonialism, specifically British in India and the exposure of the West to Eastern ideas); Othello (Imperialism); Antigone (Nation building and nationalism, emphasizing the struggle between individual and state); Animal Farm and 1984 (20th century totalitarianism);and Lord of the Flies (Cold War). These units will be supplemented with shorter readings, films, and literature to enhance the students’ understanding of the core issues. Grades will be based on papers, projects, group seminar presentations and homework journals. This course culminates in the NYS Regents in Global History & Geography Examination.

**Note:** Students must register for both SS and English components. Students may not drop one course without dropping the other.

Grade 10 ..... 1 credit Social Studies & 1 credit English

**AP EUROPEAN HISTORY**

The aim of the Advanced Placement European History course is to build on the students’ knowledge of the factual narrative of history and to develop: a) an understanding of some of the principal themes in modern European history; b) an awareness of the consequences of European contacts with other areas of the world; and c) an ability to analyze historical interpretations and primary sources. The chronological period begins with the high Renaissance and concludes with present day issues. After the Advanced Placement Exam in mid-May, the course will concentrate on preparing the students for the Global History and Geography Regents Examination. Students taking this course must take the AP Exam.

Grade 10 ..... 1 credit

**GRADE 11**  
**UNITED STATES HISTORY AND GOVERNMENT**

A review of enduring constitutional issues sets the stage for an analysis of America as an industrialized nation and as a world power. The emphasis is given to America in the 19th and 20th centuries, foreign policy, global interdependence, and issues of war and peace. The year-long course culminates in the Regents Examination in U.S. History and Government.

Grade 11 ..... 1 credit

**UNITED STATES HISTORY AND GOVERNMENT HONORS**  
**(Prerequisite: 2 Social Studies Credits)**

This advanced elective for highly motivated students follows the curriculum for United States History and Government but in greater depth and sophistication. In addition, there is an emphasis on analysis and research. This year-long course culminates in the Regents Examination in U.S. History and Government.

Grade 11 ..... 1 credit

**AP US HISTORY**

The American History AP course is designed to give the student a background in the chronology of US History and in major interpretive questions that derive from the study of selected themes. It is the equivalent of a one-year introductory college course in US History from 1607 to the present. The course will provide students with an understanding of primary sources including documentary material, maps, statistical tables, and pictorial and graphic evidence of historical events. Students taking this course must take the AP Exam.

Grade 11 ..... 1 credit

**GRADE 12**  
**ECONOMICS**

This one-semester course focuses on economic decision-making. Specific areas to be studied include the problem of scarcity and economic choice, the importance of financial markets, the federal reserve system, government and fiscal policy, social welfare concerns, and international trade.

Grade 12 ..... 1/2 credit

**ECONOMICS HONORS**  
**(Prerequisite: 3 Social Studies credits)**

This honors level course follows the curriculum design for Economics but with greater emphasis on readings in economic philosophy. It is offered as an advanced course for highly motivated students and includes an extensive research component.

Grade 12 ..... 1/2 credit

**AP MACROECONOMICS** (Spring)  
*(Satisfies Economics Requirement)*

AP Macroeconomics prepares students for the AP exam in the spring. Students explore the following areas of study: basic economic concepts (e.g., supply and demand, opportunity costs, comparative advantage); GNP, national income, inflation, price indexes, unemployment; national income and price determination (aggregate demand, money and banking, fiscal and monetary policy); economic growth; international trade). Students taking this course must take the AP Exam.

Grade 12 ..... 1/2 credit

**PARTICIPATION IN GOVERNMENT**

This course combines two distinct approaches to the study of government: the theoretical and the practical. The structure, functions, and problems of government are studied. The role of political parties in the organization and implementation of the levels of power in government is stressed.

Grade 12 ..... 1/2 credit

**PARTICIPATION IN GOVERNMENT HONORS**  
*(Prerequisite: 3 Social Studies credits)*

This is an advanced course for highly motivated students and includes a series of research activities. The course content focuses on a range of domestic issues including race, gender, and current political events.

Grade 12 ..... 1/2 credit

**AP UNITED STATES GOVERNMENT AND POLITICS** (Fall)  
*(Satisfies Participation in Government Requirement)*

AP Government and Politics prepares students for the AP exam in the spring. It provides in-depth study of the following areas: constitutional underpinnings of the US Government; political beliefs and behavior of citizens; political parties, interest groups and mass media; institutions of national government—the Congress, the Presidency, the Federal Courts and the bureaucracy; public policy; civil liberties and civil rights. Students taking this course must take the AP Exam.

Grade 12 ..... 1/2 credit

**SOCIAL STUDIES ELECTIVES**  
**AP HUMAN GEOGRAPHY**

This course contains subject matter that blends historical perspective with issues that are relevant to the contemporary world, including local, national and global current events. Human Geography is a social science class that extends beyond the parameters of history. The course will provide students with the ability to explore important topics such as population and migration, culture, politics, agriculture, food production, cities, and economic development. Students taking this course must take the AP Exam.

Grades 10, 11, 12 ..... 1 credit

**AP PSYCHOLOGY**

This course follows the Advanced Placement curriculum which is largely focused on experimental Psychology including learning theory, development, and stages of personality formation. This is a full-year course. Students who have already taken psychology may also enroll in this course. Students taking this course must take the AP Exam.

Grades 10, 11, 12 ..... 1 credit

**CHILD PSYCHOLOGY**

The Child Psychology course is a half year elective designed to introduce students to the systematic study of the behavioral and mental development of human beings from infancy through childhood and adolescence into young adulthood. This course will acquaint students with the psychological, cultural and historical factors that interact to influence and shape this development. Students will learn the psychological theories associated with the foundations of child development with a focus on key developmental themes, including pre-natal, neural and biological, learning and cognitive, social-emotional, personality, gender-role, and moral development among others. These concepts will be taught by means of case material, films, and student life experiences. Students will learn the various functions of a child’s behaviors and be able to predict future behaviors by understanding behavioral patterns. Students will also develop skills in the scientific approach and critical thinking.

Grades 9, 10, 11, 12 .....1/2 credit

**CSI ROSLYN: INVESTIGATIVE LAW**

This course challenges students to become legal investigators and to learn methods actually used by lawyers and detectives to solve case mysteries. Students will be presented with real-life problem scenarios, which they will analyze with their investigative team. Investigative techniques such as wire taping, fingerprinting, documentary evidence, crime scene analysis, interrogation, and interviewing will be taught. Evidentiary rules of law will be explored with emphasis on legal ethics, reform, rights of victims and those accused of civil and criminal wrongs. This course is offered in alternate years.

Grades 9, 10, 11, 12 .....1/2 credit

**THE HISTORY OF ETHICS: A STUDY FROM GENESIS TO COVID**

This is a half-year philosophy course wherein students will explore different theories concerning moral goodness, rightness, happiness, freedom and individual responsibility. Students will grapple with ethical scenarios and difficult decision-making situations and in the process become familiar with the ethical theories of classical and contemporary thinkers and writers. Through extended discussion, students will exchange and build upon each other’s ideas through active listening and speaking. This course is offered in alternate years.

Grades 9, 10, 11, 12 .....1/2 credit

**LEGAL HISTORY: A GENDERED USA**

This half year course explores the legal history of the US as a gendered system. The course will examine how the legal system has shaped gender relations for BOTH women & men. Students will apply legal reasoning, and learn legal theory through the examination of US Supreme Courts cases, constitutional amendments, and federal legislation. This course is offered in alternate years.

Grades 9, 10, 11, 12 .....1/2 credit

**PSYCHOLOGY**

This is an introduction to some of the traditional and contemporary schools of psychology and the study of human behavior. Topics to be considered include personality development, culture and personality, and interpersonal relationships. A student may not take this course if they have taken AP Psychology. This course is offered in alternate years.

Grades 9, 10, 11, 12 .....1/2 credit

 Indicates that the course is not running for the upcoming school year but will be offered in alternating years.

RESEARCH PROGRAM

The Research Program gives students the rare opportunity to conceive of, design, and execute their own empirical projects in mathematics or the natural, behavioral, or social sciences, an experience similar to that which they will encounter once in college. The Research Program is an elective program that students may participate in throughout their four years in high school. While it is open to all students, it should be understood that the course work is demanding and time consuming. This program is a joint venture on the part of the math, science, and social studies departments and is staffed with teachers from those departments.

Students begin by taking the one-semester Introduction to Research class in the fall and the Research Essentials class in the spring. Then students are eligible to move into Research Seminar, a year-long class that meets on alternate days. Students may remain in Research Seminar from 2-4 semesters, until they are recommended to move on to Independent Study Research.

In addition to providing students with a host of opportunities to take part in competitions including the Regeneron Science Talent Search and Long Island Science and Engineering Fair, and Long Island Science Congress, the program enables students to engage with a subject that interests them in a deep and meaningful way. Students often work on the same topic for multiple years and learn what it's like to sustain their interest and efforts over such an extended time. More information about the Roslyn High School's Research Program can be found on the high school website at <https://www2.roslynschools.org/schools/rhs/pages/research.aspx>

INTRODUCTION TO RESEARCH

(Corequisite: Students must be enrolled in honors level math and science classes.)

This one-semester class is intended for students who are interested in a general overview of research in the natural, behavioral, and social sciences. Students will be introduced to common methods and concepts used by researchers in these disciplines. Topics will include the scientific method, survey design, and statistics. Students will work in small groups to complete a mini-project in which they apply their new skills.

Grades 9, 10 .....1/2 credit

RESEARCH ESSENTIALS

(Prerequisite: Introduction to Research taken in fall semester)

This half year course is a continuation of Introduction to Research. The class will focus on the reading, writing, and presentation skills necessary to succeed in our Research Program. Students will learn to decode and synthesize challenging texts and to present their work cogently and persuasively via written and oral presentations. Students will be given the opportunity to enter their final product into a research competition.

Grades 9, 10 .....1/2 credit

RESEARCH SEMINAR

(Prerequisite: Introduction to Research)

In this small-group class, students will be guided through all aspects of the research process including the literature review, design of the method, data collection and analysis, and preparation for contests. While the class will meet formally every other day, students will be required to devote a significant amount of time to working independently outside of the regularly scheduled class. Students will take the seminar class for 2 to 4 semesters, depending upon the pace of their progress.

Grades 10, 11 .....1/2 credit

**INDEPENDENT STUDY RESEARCH**

***(Prerequisite: Research Seminar and/or Research Coordinator's Approval)***

Students who have completed a research project at a research lab, with an outside mentor, or via two years of work in seminar, may enroll in Independent Study Research. Students will meet with the Research Coordinator weekly at a mutually convenient time to prepare projects for entry into research competitions. Student are required to work on their projects during the summer preceding their senior year and to enter the Regeneron Science Talent Search in the fall of their senior year.

Grades 11, 12 .....1/2 credit

**SENIOR SEMINAR IN RESEARCH**

***(Prerequisite: Independent Study Research - Fall)***

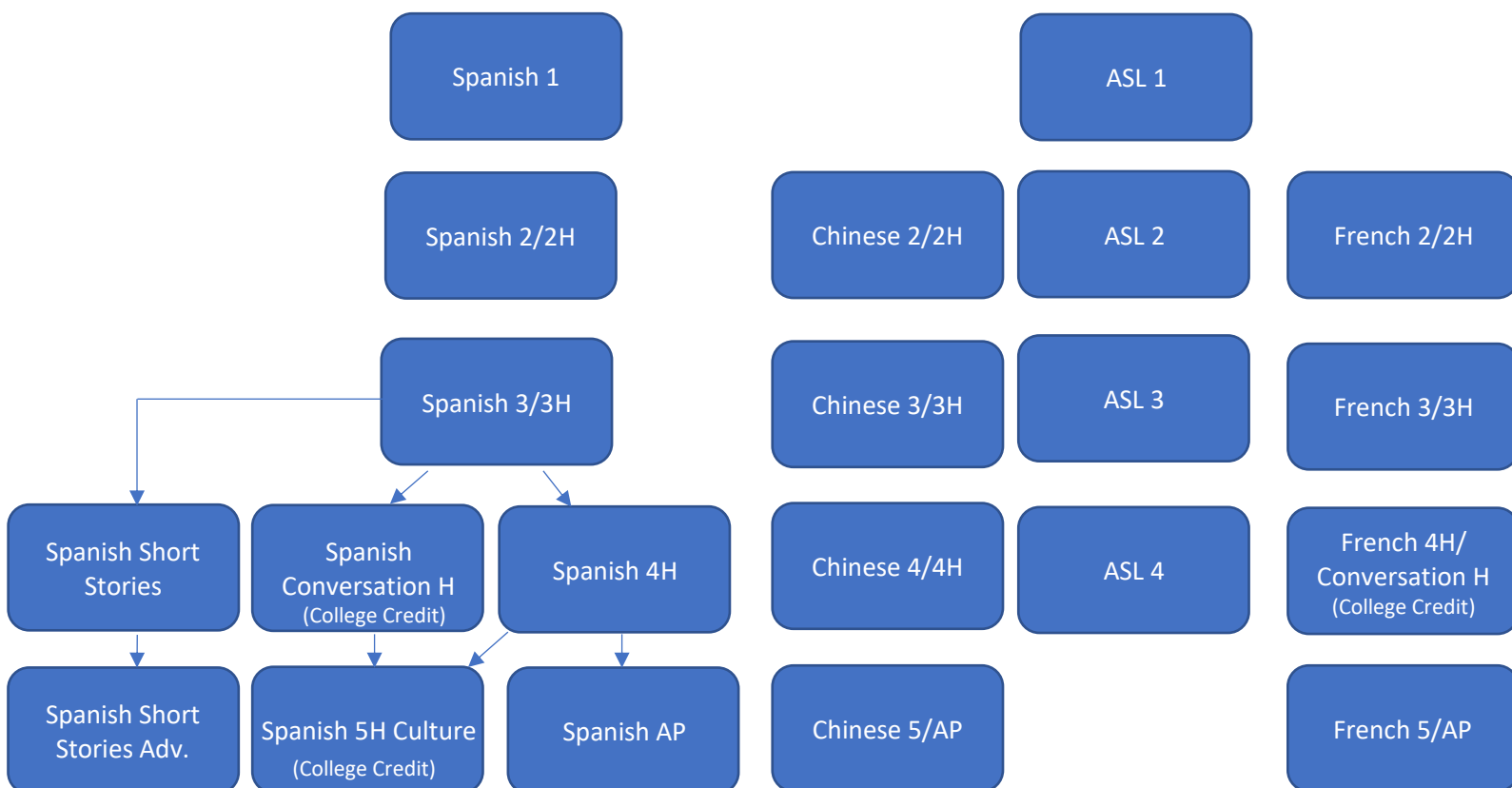
This class is solely for seniors during their spring semester. After completing their independent research in the fall, seniors will enroll in a small seminar that discusses current issues in STEM and research on alternate days.

Grade 12 .....1/4 credit



## WORLD LANGUAGES

### World Languages Department



The continuation of a language sequence will be contingent upon interest, enrollment, and staffing. We will make every effort to provide students access to the Checkpoint A at the conclusion of Grade 8, however as mentioned above, we will not guarantee that all language selections will be available at the High School level.

### CHINESE **CHINESE 2**

***(Prerequisite: Advanced Chinese)***

There is continued emphasis on the development of the skills of listening, speaking, reading, and writing within more complex syntactical patterns. A final exam will be given.

Grade 9 ..... 1 credit

### **CHINESE 2 HONORS**

***(Prerequisite: Advanced Mandarin)***

The basic language skills of listening, speaking, reading, and writing are developed intensively. More complex syntactical patterns are presented with increased emphasis on reading and writing. A final exam will be given.

Grade 9 ..... 1 credit

CHINESE 3

(Prerequisite: Chinese 2)

Continued development of language skills. Focus on daily conversation skills, pinyin, sounds and tones. Grammatical concepts are presented as well as vocabulary and sentence patterns. Reading and writing skills are reinforced. Exploration of Chinese culture through art, films and projects. This course culminates in the Checkpoint B Examination.

Grades 10, 11, 12 ..... 1 credit

CHINESE 3 HONORS

(Prerequisite: Chinese 2H)

The skills of language are developed intensively. Focus on daily conversation skills, pinyin, sounds and tones. More complex grammatical concepts are presented, as well as, vocabulary and sentence patterns. Greater emphasis is placed on the reading and writing skills. Exploration of the Chinese culture through art, films and projects. This course culminates in the Checkpoint B Examination.

Grades 10, 11 ..... 1 credit

CHINESE 4/4 HONORS

(Prerequisite: Chinese 3/3H)

Grammatical concepts are refined. Emphasis is placed on the skills of reading and writing. Selections from Chinese literature and authentic materials are explored. The listening-speaking skills continue to be developed and refined. This course follows the continuum in preparation for the College Board AP Language.

Grade 11 ..... 1 credit

AP CHINESE LANGUAGE AND CULTURE/CHINESE 5

(Prerequisite: Chinese 4/4H)

This course is equivalent to an intermediate-level college course in Chinese. Students cultivate their understanding of Chinese language and culture by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges. Students taking this course must take the AP Exam.

Grade 12 ..... 1 credit

FRENCH

FRENCH 2

(Prerequisite: Intermediate & Advanced French)

There is continued emphasis on the development of the skills of listening, speaking, reading and writing within more complex syntactical patterns.

Grade 9 ..... 1 credit

FRENCH 2 HONORS

(Prerequisite: Advanced French)

The basic language skills of listening, speaking, reading, and writing are developed intensively. More complex syntactical patterns are presented with increased emphasis on reading and writing.

Grade 9 ..... 1 credit

**FRENCH 3**

*(Prerequisite: French 2)*

There is continued development of the listening and speaking skills with increased emphasis on reading and writing. More complex structural patterns are developed. This course culminates in the Checkpoint B Examination.

Grade 10 ..... 1 credit

**FRENCH 3 HONORS**

*(Prerequisite: French 2H)*

The basic skills of language are developed intensively. More complex grammatical concepts are presented. Greater emphasis is placed on the reading and writing skills. This course culminates in the Checkpoint B Examination.

Grade 10 ..... 1 credit

**FRENCH 4 HONORS**

*(Prerequisite: French 3H)*

Grammatical concepts are refined. Emphasis is placed on the skills of reading and writing. Selections from French literature and authentic materials are read. The listening-speaking skills continue to be developed and refined.

Grade 11 ..... 1 credit

**FRENCH CONVERSATION HONORS**

*(Prerequisite: French 3 or 3H)*

There is continued development of listening and reading and writing skills with greater emphasis on speaking. Students may obtain Adelphi University credit for a cost payable to Adelphi University. All students, in this course are required to take a final exam.

Grades 11, 12 ..... 1 credit

**AP FRENCH LANGUAGE AND CULTURE**

*(Prerequisite: French 4H)*

This course follows the outline provided by the College Board. It covers the equivalent of a third-year college course in advanced French composition and grammar. It stresses oral skills, composition, and grammar while emphasizing the use of French for active communication. Course content reflects the intellectual interests shared by the students and teacher and includes the arts, current events, literature, sports, etc. Students taking this course must take the AP Exam.

Grade 12 ..... 1 credit

**SPANISH**

**SPANISH 1**

This beginning level course is for students who have not yet studied a foreign language in the middle school and/or who have not been successful at the middle school level. The basic language skills of listening, speaking, reading, and writing are developed. Emphasis is placed on the oral communication skills of listening and speaking. The basic patterns of the language are introduced. Students will be covering the 7th and 8th grade curriculum in one year in order to be able to take the Regents their junior or senior year.

Grades 9, 10 ..... 1 credit

**SPANISH 2**

*(Prerequisite: Intermediate & Advanced Spanish)*

There is continued emphasis on the development of the skills of listening, speaking, reading, and writing within more complex syntactical patterns.

Grade 9 ..... 1 credit

**SPANISH 2 HONORS**

*(Prerequisite: Intermediate & Advanced Spanish)*

The basic language skills of listening, speaking, reading, and writing are developed intensively. More complex syntactical patterns are presented with increased emphasis on reading and writing.

Grade 9 ..... 1 credit

**SPANISH 3**

*(Prerequisite: Spanish 2)*

There is continued development of listening and speaking skills with increased emphasis on reading and writing. More complex structural patterns are developed. The course culminates in the Checkpoint B Examination.

Grade 10 ..... 1 credit

**SPANISH 3 HONORS**

*(Prerequisite: Spanish 2H)*

The basic skills of language are developed intensively. More complex grammatical concepts are presented. Greater emphasis is placed on the reading and writing skills. This course culminates in the Checkpoint B Examination.

Grade 10 ..... 1 credit

**SPANISH CONVERSATION HONORS**

*(Prerequisite: Spanish 3H)*

There is continued development of listening and reading and writing skills with greater emphasis on speaking. Students may obtain Adelphi University credit for a cost payable to Adelphi University. All students in this course are required to take a final exam.

Grades 11, 12 ..... 1 credit

**SPANISH 4 HONORS**

*(Prerequisite: Spanish 3H)*

Grammatical concepts are refined. Emphasis is placed on the skills of reading and writing. Selections from Hispanic literature and authentic materials are read. The listening-speaking skills continue to be developed and refined. This course starts to follow the outline provided by the College Board for the AP Language Exam.

Grade 11 ..... 1 credit

**AP SPANISH LANGUAGE AND CULTURE**

*(Prerequisite: Spanish 4H)*

This course follows the outline provided by the College Board. It covers the equivalent of a third-year college course in advanced Spanish composition and grammar. It stresses oral skills, composition, and grammar while emphasizing the use of Spanish for active communication. Course content reflects the intellectual interests shared by the students and teacher and includes the arts, current events, literature, sports, etc. Students taking this course must take the AP Exam.

Grade 12 ..... 1 credit

**SPANISH 5 HONORS CULTURE**

*(Prerequisite: Spanish 4H/Spanish Conversation Honors)*

This course will explore in thematic units the culture of Latin America and Spain and current events of the Hispanic world. Basic and advanced elements of grammar will be covered. Upon completion of this course students may earn college credit for a cost payable to the university. All students in this course are required to take a final examination if pursuing college credit.

Grade 12 ..... 1 credit

**SPANISH ELECTIVES**

**SPANISH FILM**

*(Prerequisite: 4/4H)*

This course is designed to introduce our students to Latin America as well as Peninsular films. It will give them an opportunity to explore specific cultural aspects native to Spanish speaking countries as well as regionalisms introduced by the movie.

Grade 12 ..... 1 credit

**SPANISH SHORT STORIES**

*(Prerequisite: Spanish 3/3H)*

This course explores contemporary themes in Spanish and Latin American cultures through the lens of short stories and films from these regions. Students will engage with a variety of texts and media that reflect the diverse perspectives and rich traditions of the Spanish-speaking world. Emphasis is placed on promoting fluency in Spanish through dynamic conversations and creative projects. This course is for students looking to strengthen their speaking abilities and gain insights into the modern cultural landscape of Spain and Latin America.

Grades 11, 12 ..... 1 credit

**SPANISH SHORT STORIES ADVANCED**

*(Prerequisite: Spanish 3/3H & Spanish Short Stories)*

Building on the foundation of Spanish Short Stories, this course delves into the rich world of fairy tales, myths, and legends. Students will engage in discussions about classic narratives such as: Good vs. Evil, Love and Friendship, Perseverance and Overcoming Challenges. Class discussions and activities are designed to enhance conversational skills, encouraging students to express ideas and opinions in Spanish while deepening their understanding of classic themes. This course offers an immersive experience for students seeking to deepen their linguistic abilities.

Grades 11, 12 ..... 1 credit

**AMERICAN SIGN LANGUAGE**

**AMERICAN SIGN LANGUAGE 1**

This beginning level course is for students who have already fulfilled their world language requirement and want to begin the study of a second language. The basic language skills of the language are introduced and studied.

Grades 9, 10, 11, 12 ..... 1 credit

**AMERICAN SIGN LANGUAGE 2**

This mid-level course is for students who have already completed level one and fulfilled their world language requirement and want to continue the study of American Sign Language. The basic language skills of the language are continued and studied.

Grades 10, 11, 12 ..... 1 credit

**AMERICAN SIGN LANGUAGE 3**

This intermediate level course is for students who have already completed level one and two of American Sign Language and fulfilled their world language requirement and want to continue the study of American Sign Language. The basic language skills of the language are continued and studied. This course culminates Checkpoint B Examination.

Grades 11, 12 ..... 1 credit

**AMERICAN SIGN LANGUAGE 4**

ASL IV focuses on vocabulary expansion and manual and non-manual aspects of ASL, ASL linguistics, cross-cultural communication, and cultural knowledge at an advanced level. This course is for students who have completed level three of American Sign Language and thus fulfilled their world language requirement yet want to continue the study of American Sign Language.

Grades 11, 12 ..... 1 credit

## 21st CENTURY LEARNING

### BIOTECHNOLOGY

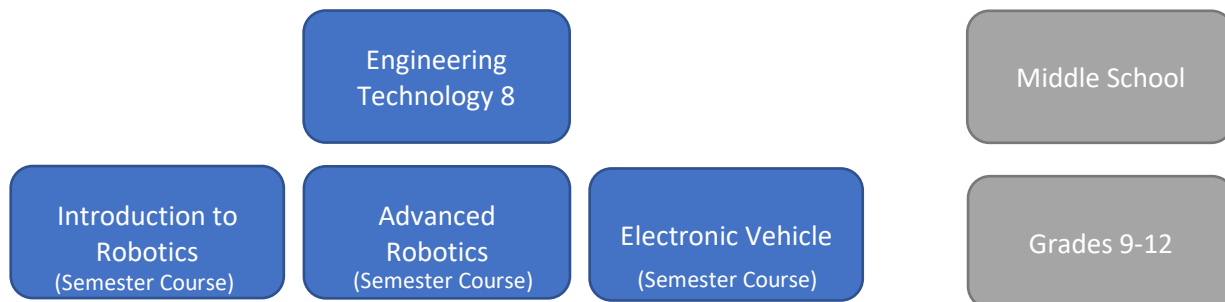
#### INTRODUCTION TO BIOTECHNOLOGY: THE SCIENCE OF THE FUTURE

Step into the future with this cutting-edge biotechnology course! You'll explore the groundbreaking world of DNA, genetic engineering, and biotechnology tools that are transforming medicine, agriculture, and beyond. Through hands-on experiments and real-world case studies, you'll gain the skills and knowledge to shape the future of science, whether you're interested in curing diseases or designing the next generation of genetically modified crops! This course is offered in rotating years.

Grades 9, 10, 11, 12 ..... 1/2 credit

### ROBOTICS

## 21<sup>st</sup> Century – Robotics



#### INTRODUCTION TO ROBOTICS

Are you ready to bring your robot ideas to life? In this hands-on course, you'll design, build, and program your own robot to tackle exciting real-world challenges! Learn to code, wire, and troubleshoot as you work in teams to create robots that can move and think. Whether you're a tech enthusiast or just curious about how robots work, this class will teach you the skills to build your own creations and unlock the world of robotics!

Grades 9, 10, 11, 12 ..... 1/2 credit

#### ADVANCED ROBOTICS

**(Prerequisite: Introduction to Robotics or Building and Coding experience)**

Take your robotics skills to the next level in this high-energy, hands-on course! You'll dive into complex designs, learn about gear systems, pulleys, and advanced programming techniques, and build robots that can solve real-world problems autonomously. Whether you're perfecting your coding skills or refining mechanical systems, this course will challenge your creativity, technical abilities, and problem-solving skills in the thrilling world of robotics!

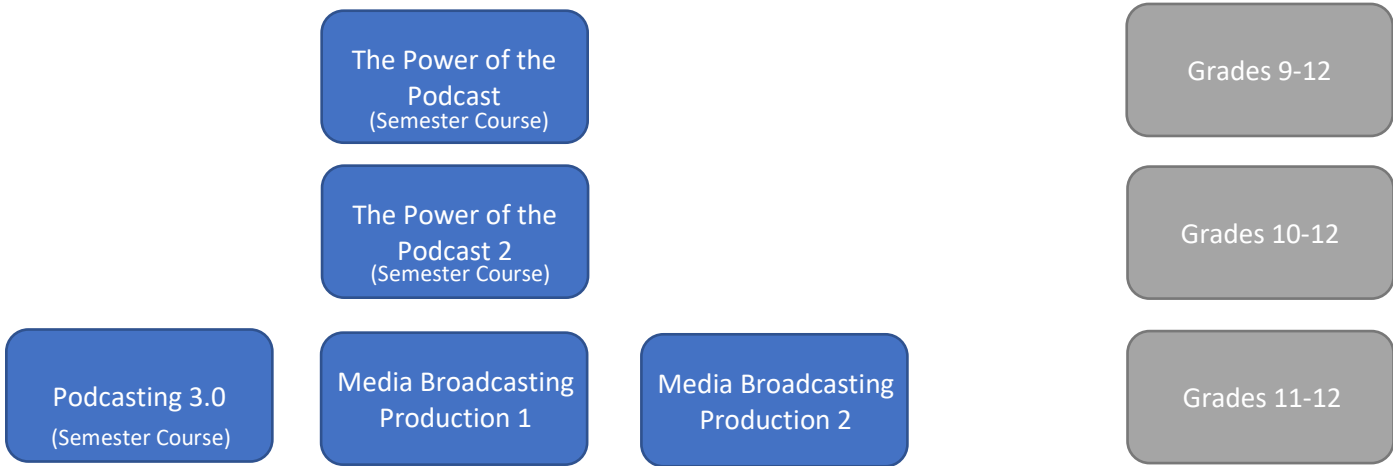
Grades 9, 10, 11, 12 ..... 1/2 credit

#### ELECTRIC VEHICLE ENGINEERING: BUILD THE FUTURE!

Ready to speed into the future of sustainable transportation? In this electrifying course, you'll get your hands dirty building an electric vehicle from the ground up! Learn all about battery technology, braking systems, and control panels, while working to design and construct a fully functional electric vehicle. If you're excited about cutting-edge automotive technology and want to make a real impact in the world of green energy, this is your chance to build the car of tomorrow!

Grades 9, 10, 11, 12 ..... 1/2 credit

21<sup>st</sup> Century – Media & Communication



THE POWER OF THE PODCAST: THE ART OF MODERN STORYTELLING 1

The last decade has seen an incredible explosion in podcasts, ways of spreading information and sharing narratives across our collective consciousness. With transformative tales packaged in bite-sized episodes, podcasting has become a multi-million-dollar industry and a fresh take on a centuries-old oral tradition. This class allows students the opportunity to analyze modern stories, consider what makes podcasts appealing, and determine how to take existing experiences and use the podcast format to share them. Within this framework, there will be an emphasis on identifying compelling elements of popular podcasts and harnessing those elements to capture the imaginations of diverse listeners. This course is well suited for sharp, thoughtful observers ready to put their passion, creativity, and voices to work in sharing the stories that deserve to be heard.

Grades 9, 10, 11, 12 .....1/2 credit

THE POWER OF THE PODCAST: THE ART OF MODERN STORYTELLING 2

*(Prerequisite: The Power of the Podcast: The Art of Modern Storytelling 1)*

Second year podcasters, now experienced and wiser, will continue to produce and develop their own original podcast series and one-shots while mentoring the next generation of audio storytellers. In this hybrid role of student and peer leader, students will enhance their recording, interviewing, editing, and scriptwriting skills and help first year podcasters create informative and engaging narratives that will eventually be featured on *RosPod*, the course website. Students are given a unique opportunity to gain experience in building a dynamic online platform and managing a fully functioning podcast studio.

Grades 10, 11, 12 .....1/2 credit



**PODCASTING 3.0: LONG-FORM AUDIO STORYTELLING**

**(Prerequisite: The Power of the Podcast: The Art of Modern Storytelling 2)**

This course in long-form audio storytelling pushes students to master advanced techniques in audio production by creating 20-minute narratives that are anchored in original research and journalism and defined by rich, immersive soundscapes. Students will not only refine their storytelling skills but also take on leadership roles as studio chiefs, managing projects and mentoring peers. This experience mirrors industry practices, helping students develop both creative and collaborative abilities. The course prepares them to meet the growing demand for high-quality, narrative-driven podcasts, equipping them to thrive in professional and independent media spaces.

Grades 11, 12 .....1/2 credit

**MEDIA BROADCASTING PRODUCTION 1**

Media Broadcasting Production is for juniors and seniors interested in exploring the worlds of television/video production and broadcast journalism. Students will put together a weekly news show to be broadcasted to the high school. In the production studio, students will engage in a series of projects that will build career and college ready skills while serving the school and local community with in-depth, current and thought-provoking news stories. Students will research topics, write news scripts and film the news each week. Students will have the opportunity to enhance their editing skills through a variety of video projects and assignments. This course is perfect for those students who want a hands-on experience in the world of digital editing and broadcasting. *Due to the nature and expectations of this course, students will be required to fill out an application and interview.*

Grades 11, 12 ..... 1 credit

**MEDIA BROADCASTING PRODUCTION 2**

**(Prerequisite: Media Broadcasting Production 1)**

Media Broadcasting Production II is designed for seniors who have successfully completed Media Broadcasting Production, offering an advanced exploration of media production techniques. Students will refine their skills in production, interview techniques, and Adobe Premiere proficiency. The curriculum offers students the opportunity to delve into advanced videography, Tricaster effects, and the intricacies of staffing requirements for media production. In this course, students step into leadership roles, taking on the responsibility of creating a weekly news show destined for broadcast within the high school. Students will actively engage in the entire production process each week, ensuring the seamless execution of a captivating RTV show. This hands-on course cultivates teamwork and leadership skills essential for success in the dynamic field of media production. *Due to the nature and expectations of this course, students will be required to fill out an application and interview.*

Grade 12 ..... 1 credit

**LEADERSHIP**

**PEER COACHING**

Peer Coaching is a course for students who value inclusion and wish to assist students with intellectual and physical disabilities in Adapted Physical Education. Becoming a Peer Coach requires patience, empathy, and a positive attitude to create a welcoming environment where every student can succeed and build confidence in their physical abilities. Enrollment in the course is limited.

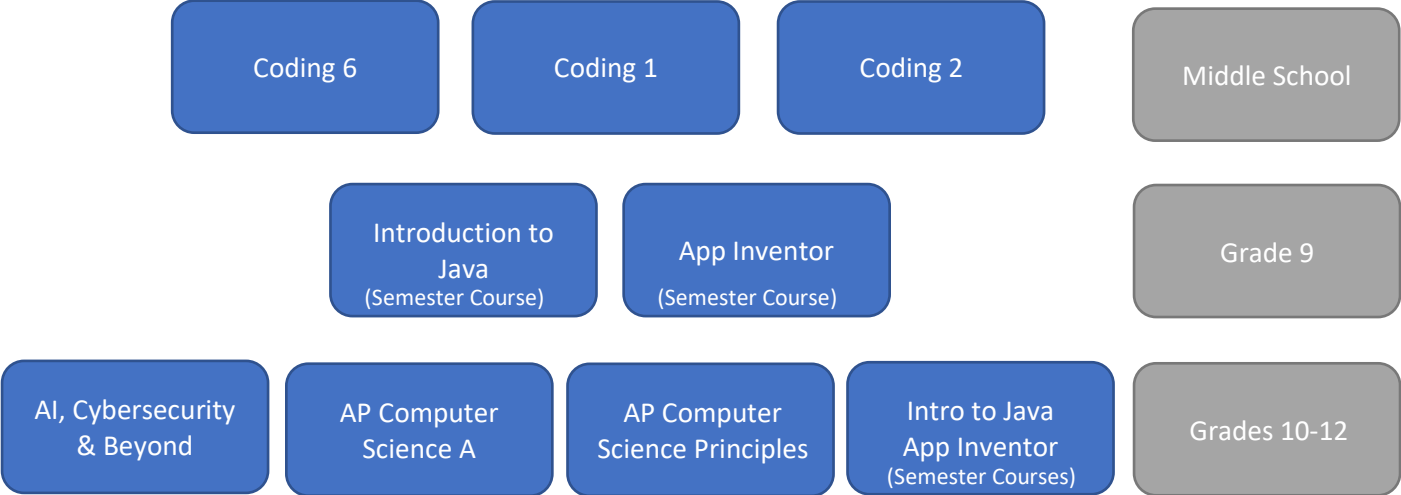
Grades 10, 11, 12 .....1/2 credit

**ARTIFICIAL INTELLIGENCE**  
**MASTERING AI: THE POWER OF PROMPT ENGINEERING**

Step into the exciting world of Artificial Intelligence (AI) and master the art of Prompt Engineering—the key to getting AI tools to work for you! In this course, you’ll learn how to design powerful prompts that guide chatbots, image generators, and other AI systems to produce amazing results. Along the way, you’ll explore the science behind AI, its real-world applications, and tackle big questions about ethics, fairness, and privacy. Through hands-on projects, creative challenges, and lively discussions, you’ll gain the cutting-edge skills needed to harness AI’s potential and thrive in a tech-driven future!

Grades 9, 10, 11, 12 .....1/2 credit

21<sup>st</sup> Century – Computer Science



INTRODUCTION TO JAVA PROGRAMMING LANGUAGE

This course is designed specifically for students with no programming experience. This course provides first-time programmers an excellent choice for learning programming using the JAVA programming language. The course helps students understand the significance of the JAVA programming language. With this knowledge, students will develop programming skills in the areas of object oriented and JAVA technology. Topics include compiling JAVA applications, variables and data types, operators, control flow, classes and objects. While the course focuses on the development of JAVA applications, students will be exposed to rudimentary GUI design and event handling to be able to create simple JAVA Window-based application.

Grades 9, 10, 11, 12 .....1/2 credit

AP COMPUTER SCIENCE A

(Prerequisite: Introduction to JAVA)

This course is comparable to that of a first-year course offered in college and university computer science departments and is intended to serve both as an introductory course for computer science majors and as a substantial service course for students who will major in other disciplines that require significant involving with computing. A primary objective is to learn how to write logically structured, well-documented computer programs using JAVA as the programming language. The major emphasis is on programming methodology, algorithms, and data structures. Students taking this course must take the AP Exam.

Grades 11, 12 ..... 1 credit

**ARTIFICIAL INTELLIGENCE, CYBERSECURITY & BEYOND**

*(Prerequisite: AP Computer Science A)*

Machine learning lets computers learn without being explicitly programmed. Machine learning is a domain within the broader field of artificial intelligence. Artificial Intelligence (AI) involves the study of realizing intelligent human behavior on a computer. A primary goal of AI is to create a computer that can learn, plan, and solve problems autonomously. Cybersecurity is the practice of protecting systems, networks, and programs from digital attacks. In security, machine learning continuously learns by analyzing data to find patterns and improve security. With these topics so intertwined, this course will focus on studying the major concepts of AI, Machine Learning, and Cybersecurity. This course is designed to provide fundamental knowledge to students so that they can: understand what the topics are, begin working with them, and continue studying the topics into the future.

Grades 11, 12 ..... 1 credit

**AP COMPUTER SCIENCE PRINCIPLES**

This full year course introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. This AP course promotes deep learning of computational content, develops computational thinking skills, and engages students in the creative aspects of the field. Students taking this course must take the AP Exam.

Grades 10, 11, 12 .....1 credit

**APP INVENTOR**

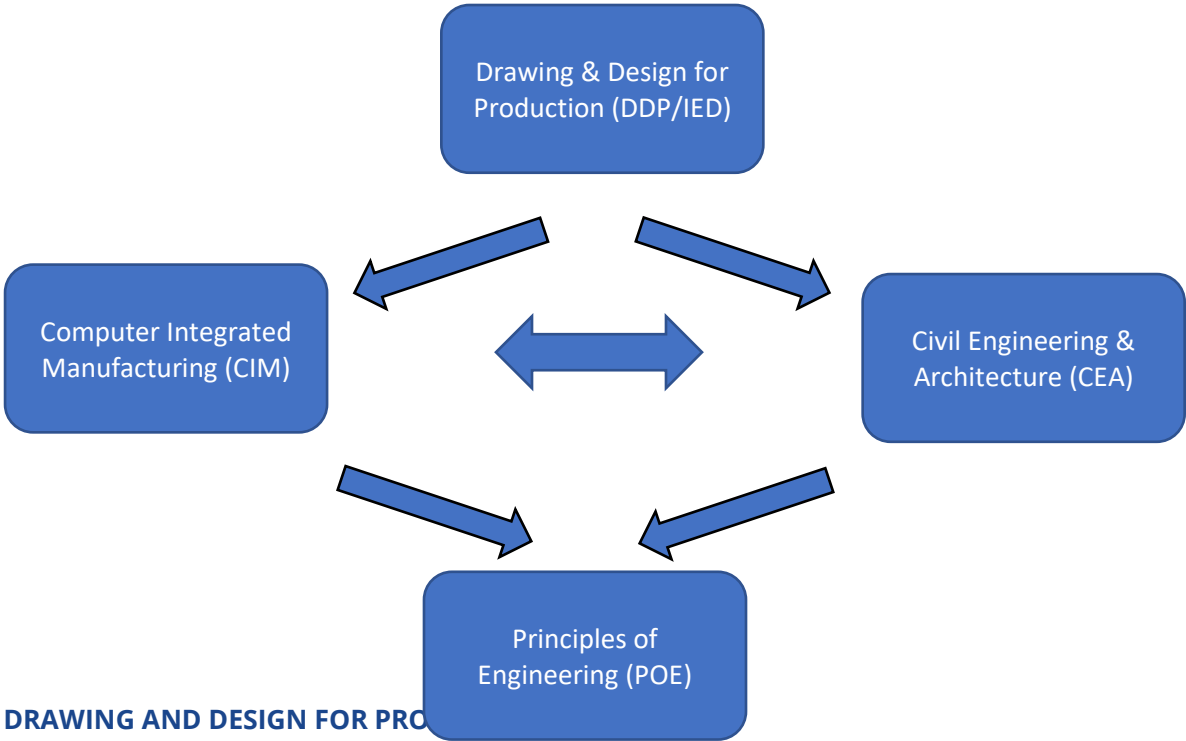
In this half-year course students will learn to create an app that will be usable on Apple products. This class will develop 21st century learning skills and combine creativity with critical thinking. These transferable skills will push students to become analytical thinkers and prepare them for college and beyond. Students will create a visually appealing and user-friendly app that is relevant to each individual student.

Grades 9, 10, 11, 12 .....1/2 credit

**PROJECT LEAD THE WAY (PLTW) ENGINEERING PROGRAM**

In PLTW Engineering, students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as used in the world’s top technology companies. Students are immersed in design as they investigate topics such as ethics, aesthetics, sustainability, forces, structures, digital electronics, circuit design, etc. Students are given an opportunity to learn about different engineering disciplines before beginning post-secondary education or careers. Students have the opportunity to earn college credit from RIT for a reduced rate.

**21<sup>st</sup> Century – Project Lead the Way (Engineering)**



**PLTW: DRAWING AND DESIGN FOR PRO**

This full year course is the first in the sequence of engineering courses that will be offered through the science department. Designed for 9<sup>th</sup> or 10<sup>th</sup> grade students, the major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3-D modeling software to help them design solutions to solve proposed problems, document their work using an engineer’s notebook, and communicate solutions to peers and members of the professional community. This course fulfills the one-year art credit requirement.

Grades 9, 10, 11, 12 ..... 1 credit

**PLTW: COMPUTER INTEGRATED MANUFACTURING (CIM)**

**(Prerequisite: DDP-IED)**

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge system. This course teaches the fundamentals of computerized manufacturing technology. Students use 3-D computer software to solve design problems. They assess their solutions through the relationship of design, function and materials, modify their designs, and use prototyping equipment to produce 3-D models.

Grades 10, 11, 12 ..... 1 credit

**PLTW: CIVIL ENGINEERING AND ARCHITECTURE (CEA)**

***(Prerequisite: DDP-IED)***

This is the third course in the PLTW Engineering curriculum. New building plans look impressive onscreen, but how would that cool structural design you developed stand up to a flood, earthquake, city inspector, or historical commission? Some of today’s designs integrate housing, workspace, recreation, and the great outdoors into the same building or complex. Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architecture design software. Students use 3-D modeling software to create and test residential and commercial designs, factoring in: Materials and systems, Structural design, Cost/efficiency analysis, Storm water management, Site design/considerations, Utilities and services, Building codes, Architectural style and guidelines.

Grade 10, 11, 12 ..... 1 credit

**PLTW: PRINCIPLES OF ENGINEERING (POE)**

***(Prerequisite: Any two PLTW courses)***

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

Grade 11, 12 ..... 1 credit

## **SPECIAL EDUCATION**

Special education means specially designed individualized or group instruction or special services or programs and special transportation, provided at no cost to the parent, to meet the unique needs of students with disabilities.

- Such instruction includes but is not limited to that which is conducted in classrooms, homes, hospitals, institutions and in other settings.
- Such instruction includes specially designed instruction in physical education, including adapted physical education.

Specially designed instruction means adapting, as appropriate to the needs of an eligible student, the content, methodology, or delivery of instruction to address the unique needs that result from the student's disability; and to ensure access of the student to the general curriculum, so that he or she can meet the educational standards that apply to all students.

The continuum of special education services for school-age students with disabilities is an array of services to meet an individual student's needs that includes:

- Related services;
- Consultant teacher services (direct and/or indirect);
- Resource room services.
- Integrated co-teaching services; and
- Special class.

### **RELATED SERVICES**

Related services means developmental, corrective, and other supportive services as are required to assist a student with a disability and includes speech-language pathology, audiology services, interpreting services, psychological services, physical therapy, occupational therapy, counseling services, including rehabilitation counseling services, orientation and mobility services, medical services as defined in this section, parent counseling and training, school health services, school nurse services, school social work, other appropriate developmental or corrective support services, and other appropriate support services and includes the early identification and assessment of disabling conditions in students.

### **CONSULTANT TEACHER SERVICES:**

Consultant teacher services is for the purpose of providing direct and/or indirect services to students with disabilities who attend regular education classes, including career and technical education classes, and/or to such students' regular education teachers. Each student with a disability requiring consultant teacher services shall receive direct and/or indirect services consistent with the student's IEP for a minimum of two hours each week.

### **RESOURCE ROOM**

A resource room program is for the purpose of supplementing the general education classroom instruction for students with disabilities who are in need of such supplemental programs. An instructional group which includes students with disabilities in a resource room program shall not exceed five students per teacher. The composition of instructional groups in a resource room program shall be based on the similarity of the individual needs of the students according to:

- Levels of academic or educational achievement and learning characteristics;
- Levels of social development;
- Levels of physical development; and
- The management needs of the students in the classroom

## **INTEGRATED CO-TEACHING**

Integrated co-teaching services, which are taught by both a content area specialist and a special educator, means the provision of specifically designed instruction and academic instruction provided to a group of students with disabilities and non-disabled students. The maximum number of students with disabilities receiving integrated co-teaching services in a class shall be determined in accordance with the student's individual needs as recommended on their IEPs and shall not exceed twelve students.

## **SELF-CONTAINED/SUBJECT SPECIFIC CLASSES**

Special Class means a class consisting of students with disabilities who have been grouped together because of similar individual needs for the purpose of being provided specially designed instruction. Specially designed instruction means adapting, as appropriate to the needs of an eligible student the content, methodology, or delivery of instruction to address the unique needs that result from the student's disability; and to ensure access of the student to the general curriculum, so that he or she can meet the educational standards that apply to all students. Students in the subject specific/self-contained classes work towards achieving a Regents or a local diploma.

## **ALGEBRA 1A**

Algebra 1A is the first of a two-year extended course of study of the New York State Algebra 1 curriculum. It introduces the student to the fundamentals of algebra. The curriculum for algebra, is an intensive look at equations, inequalities, graphing, and functions, it also includes additional topics in statistics. Students will be introduced to the graphing calculator and will work with it during lessons and when completing homework.

## **ALGEBRA 1B**

Algebra 1B is the second of a two-year extended course of study of the New York State Algebra 1 curriculum. It introduces the student to the fundamentals of algebra. The curriculum for algebra, is an intensive look at equations, inequalities, graphing, and functions, it also includes additional topics in statistics. Students will be introduced to the graphing calculator and will work with it during lessons and when completing homework.

## **APPLIED CHEMISTRY**

This class offers students an introduction to the Chemistry curriculum that addresses the specific learning needs of each student. It focuses on the main topics of the subject and allows students to get an introduction through observation and experience. Utilizing hands-on activities, the curriculum is designed to provide students with valuable learning experiences while tapping into the diverse learning styles of each student. There are many responsibilities that each student is expected to fulfill this year in Applied Chemistry, including lab reports, homework, tests and quizzes, an organized notebook, utilizing an assignment book, and being prepared each day to learn.

## **APPLIED EARTH SCIENCE**

This class offers students a New York State High School Earth and Space Common Core Curriculum. Units are aligned with Next Generation State Standards and New York State P-12 Science Learning Standards. We include all topics offered in the New York State Earth and Space curriculum such as the solar system, Earth's Interior, climate, human sustainability and more. Lessons are designed to provide students with content and valuable learning experiences while tapping into the diverse learning styles of each student. Students will be participating in lab hours as per the New York State science requirements. This course will culminate with the students taking the Regents exam in June.

## **APPLIED GEOMETRY**

Applied Geometry is a one-year course of study of the New York State Geometry curriculum. It introduces the student to the fundamentals of Geometry. Students will be using a graphing calculator and compass during lessons and when completing homework. Lessons will be delivered in a variety of styles to ensure learning of all students.



**APPLIED LIVING ENVIRONMENT**

This class offers students a high school living environment curriculum that addresses the specific learning needs of each student. Utilizing hands-on activities as well as the textbook, the curriculum is designed to provide students with valuable learning experiences while tapping into the diverse learning styles of each student. Each student will be prepared to sit for the Living Environment Regents exam in June. There are many responsibilities that each student is expected to fulfill including lab reports, homework, tests and quizzes, an organized notebook, utilizing an assignment book, and being prepared each day to learn.

**MATH AND MONEY IN THE MARKETPLACE**  
**(Prerequisite: Algebra or Algebra 2)**

This full year math course for seniors builds upon the skills that students have mastered in Algebra 1 and Algebra 2. Geared toward the student who desires additional math credit, as well as an introduction to the world of business, an emphasis is placed on the mathematical applications used to solve problems in personal and business finance.

Grade 12 ..... 1 credit

**PATHWAY TO INDEPENDENCE (PTI)**

This special class prepares students for independence at the conclusion of high school. Pathway to Independence provides meaningful, practical and useful instruction, experiences and skills that students can generalize in order to meet post-secondary success. This program is designed to meet the needs of students typically working towards a Skills and Achievement Career Credential (SACC) or a Career Development of Occupational Studies Commencement Credential (CDOS). Skills and experiences are based on individual needs and interests. The goal of PTI is to assist students and their families as they navigate and prepare for the future. Graduates will leave Roslyn High School on a pathway to meet their goals with the skills necessary to become active participants within their community.

**APPLIED BEHAVIORAL ANALYSIS (ABA) CLASS**

The use of Applied Behavior Analysis (ABA) assists high school students in various academic and functional areas and in preparing for employment/vocational training, college, and/or independent living. Students in the ABA program typically work towards a Skills and Achievement Commencement Credential. ABA programming at this level incorporates the learner’s skills, needs, interests, preferences, and circumstances. At the high school level, the focus on functional skills is pertinent. The following are how ABA supports high schoolers:

- *Interviewing*
  - Role plays for the interview process
  - How to dress, what to bring, etc.
- *Work Assistance*
  - On the job coaching
  - Navigating professional chain of command.
- *Healthy Relationships*
  - Expressing affection within healthy relationships
  - Seeking assistance
- *Independent, Functional Skills*
  - Navigating transportation (bus, train, etc.)
  - Maintaining household (cleaning, bill paying, etc.)
- *Social Skills*
  - Problem-solving skills
  - Critical Thinking skills
  - Dealing with peer pressure

## **ENGLISH AS A NEW LANGUAGE (ENL)**

English as a New Language is offered to students whose native language is not English. The goal of this program is to help students become proficient in the English language while familiarizing them with American culture. Placement is done through a screening process which includes formal and informal assessment of the student's proficiency in English. Consistent with student progress and readiness, students move into regular education programs. Courses may include:

### **ENL 1**

This is a course designed for beginning English as a New Language students. The basic skills of listening, speaking, reading and writing are developed. These four skills will be integrated into a variety of activities to reinforce key vocabulary, grammatical structures and ideas. American culture and customs are discussed and contrasted with the students' native culture.

### **ENL 2**

This is a course designed for intermediate English as a New Language students. The skills of listening, speaking, reading and writing are further developed. These four skills will be integrated into a variety of activities to reinforce key vocabulary, grammatical structures and ideas. Creative, active and varied exercises, as well as out-of-class research assignments will call for considered opinion and critical thinking. American culture and customs are discussed and contrasted with the student's native culture.

### **ENL 3**

This is a course designed for advanced English as a New Language students. The focus is on the development of advanced listening, speaking, reading and writing skills. These four skills are explored through contemporary themes and are integrated into a variety of activities that encourage critical thinking, and reinforce key vocabulary, grammatical structures and ideas.

### **ENL READING/WRITING**

The skills of reading and writing for comprehension, vocabulary development, information and understanding, and critical analysis and evaluation are introduced, as well as a step-by-step approach to composition.

### **ENL ENGLISH**

This course is based on the New York State English Language Arts Standards. It is for English language learners who are in an advanced to transitional level. Students will be assigned authentic literature from a wide range of genres. They will study literary elements and techniques to analyze, interpret, and evaluate these works in order to prepare for the English Regents Exam.

### **ENL SOCIAL STUDIES WORKSHOP**

This course is designed to help students with their social studies instruction. Attention is given to reinforcing key concepts, homework and study skills, test taking strategies, and special class projects.

### **ENL SCIENCE WORKSHOP**

This course is designed to help students with their science instruction. Attention is given to reinforcing key concepts, homework and study skills, test taking strategies, and special class projects.

### **ENL MATH WORKSHOP**

This course is designed to help students with their math instruction. Attention is given to reinforcing key concepts, homework and study skills, test taking strategies, and special class projects.

## **BOCES - BARRY TECH**

The Board of Cooperative Educational Services, otherwise known as BOCES, Barry Tech, offers a wide variety of occupational courses for high school students, grades 11 through 12, and for high school graduates up to age 21.

A student may begin a BOCES occupational course of study any time after sophomore year. The recommendation of our guidance staff and administration is to start at the beginning of grade 11. The appropriateness of a BOCES half/day placement is discussed with the school counselor. A visit to the BOCES Center can be arranged to help the student make an informed decision.

Courses may be taken for one or two years in any combination. Four Roslyn High School credits are granted for the completion of each year-long BOCES occupational course.

Roslyn High School students who take a BOCES occupational course, attend Barry Tech. They attend Roslyn High School during periods, 1,2,3,4, and 5, for AM students and periods 6, 7, 8, and 9 for PM students.

There are many BOCES programs in Occupational Education. Some examples follow. Courses below are subject to availability. A complete listing is available in the Counseling Center. All programs are CTE Accredited.

### **BUSINESS/INFORMATION SERVICES**

- Office Assistant Skills +
- Retail Skills +
- Health Services Dental Assisting \*\*+
- Health Care Skills +
- Medical Assisting \*\*+
- Nurse Assisting \*\*+
- Personal Trainer and Exercise Medicine \*\*+
- Physical Therapy Aide and Rehabilitation Medicine \*\*+

### **ENGINEERING TECHNOLOGIES**

- Auto Collision Technician \*\*+
- Auto Skills \*\*+
- Automotive Technology \*\*+
- Aviation Operations \*\*+
- Carpentry \*\*
- Computer Technology \*\*
- Construction Electricity \*\*
- Construction Trades \*\*
- Construction Trades Skills + HVAC/Plumbing \*\*
- Network Cabling Technician/Home Technology Integration (HTI) \*\*
- Power Sports and Small Engine Repair \*\*+
- Welding\*\*

### **HUMAN AND PUBLIC SERVICES**

- Barbering Technician \*\*+
- Cosmetology \*\*+
- Culinary Arts \*\*+
- Culinary Arts Skills \*\*+
- Child Care Skills Early Childhood Education \*\*+
- Police Science and Criminal Justice \*\*+

## **NATURAL AND AGRICULTURAL SERVICES**

- Animal Care \*\*+
- Animal Care Skills \*\*+
- Horse Science and Management \*\*
- Horse Science and Management Skills
- Horticultural Technology Veterinary Science \*\*+

## **ART AND HUMANITIES**

- Animation and Digital Media Design \*\*
- Animation and Digital Media Skills
- Audio Production \*\*
- Computer Game Design and Programming
- Computer Game Design and Programming Skills
- Fashion Design Technology and Merchandising
- Video Production and Digital Film Making \*\*+

**\*\* CDOS Credential**

**+ May be used as part of the 4+1 Pathway**

## COURSE LISTING & WEIGHTING

### **COURSE LISTING - ALPHABETICAL**

Course Name	Department	Grade Scale	Credits
ACCEerator@RHS Honors	Business	Honors Scale	1
Accounting	Business	100 Point Scale	0.5
Adapted Physical Education	Physical Education & Health	100 Point Scale	0.5
Advanced Pre-Med	Science	100 Point Scale	0.5
Advanced Robotics	21st Century	100 Point Scale	0.5
Algebra 1	Math	100 Point Scale	1
Algebra 1 Strategies	Math	100 Point Scale	0.5
Algebra 1A	Special Education	100 Point Scale	1
Algebra 1B	Special Education	100 Point Scale	1
Algebra 2	Math	100 Point Scale	1
Algebra 2 Honors	Math	Honors Scale	1
Algebra 2 RSH	Math	RSH Scale	1
Algebra 2 Strategies	Math	100 Point Scale	0.5
Algebra 2A	Math	100 Point Scale	1
Algebra 2B	Math	100 Point Scale	1
American Literature	English	100 Point Scale	1
American Literature and Analysis Honors	English	Honors Scale	1
American Sign Language 1	World Languages	100 Point Scale	1
American Sign Language 2	World Languages	100 Point Scale	1
American Sign Language 3	World Languages	100 Point Scale	1
American Sign Language 4	World Languages	100 Point Scale	1
AP 2-D Art & Design	Art	AP Scale	1
AP 2-D Art & Design (Photo)	Art	AP Scale	1
AP 3-D Art & Design	Art	AP Scale	1
AP Art History	Art	AP Scale	1
AP Biology	Science	AP Scale	1
AP Calculus AB	Math	AP Scale	1
AP Calculus BC	Math	AP Scale	1
AP Chemistry	Science	AP Scale	1
AP Chinese Language and Culture	World Languages	AP Scale	1
AP Computer Science A	21st Century	AP Scale	1
AP Computer Science Principles	21st Century	AP Scale	1
AP English Language and Composition	English	AP Scale	1
AP English Language Strategies	English	Pass Fail Scale	0.5
AP English Literature and Composition	English	AP Scale	1
AP Environmental Science	Science	AP Scale	1
AP European History	Social Studies	AP Scale	1
AP French Language and Culture	World Languages	AP Scale	1
AP Government and Politics	Social Studies	AP Scale	0.5
AP Human Geography	Social Studies	AP Scale	1
AP Macroeconomics	Social Studies	AP Scale	0.5
AP Music Theory	Music	AP Scale	1
AP Physics 1	Science	AP Scale	1
AP Physics 1 & 2	Science	AP Scale	2
AP Physics C (Mechanics and Electricity and Magnetism)	Science	AP Scale	1
AP Precalculus	Math	AP Scale	1
AP Psychology	Social Studies	AP Scale	1
AP Spanish Language and Culture	World Languages	AP Scale	1
AP Statistics	Math	AP Scale	1
Applied Living Environment	Science	100 Point Scale	1
Artificial intelligence, Cybersecurity & Beyond	21st Century	AP Scale	1
Astronomy	Science	100 Point Scale	0.5
Bloomberg Financial Portfolio Management	Business	Honors Scale	0.5
Business Essentials	Business	100 Point Scale	0.5
Business Law	Business	100 Point Scale	0.5

Course Name	Department	Grade Scale	Credits
Calculus	Math	100 Point Scale	1
Career & Financial Management	Business	100 Point Scale	0.5
Chamber Orchestra	Music	100 Point Scale	1
Chamber Singers	Music	100 Point Scale	1
Child Psychology	Social Studies	100 Point Scale	0.5
Chinese 2	World Languages	100 Point Scale	1
Chinese 2 Honors	World Languages	Honors Scale	1
Chinese 3	World Languages	100 Point Scale	1
Chinese 3 Honors	World Languages	Honors Scale	1
Chinese 4	World Languages	100 Point Scale	1
Chinese 4 Honors	World Languages	Honors Scale	1
Chinese 5	World Languages	100 Point Scale	1
College Literature Honors	English	Honors Scale	0.5
College Literature Honors: Multicultural Literature	English	Honors Scale	0.5
College Literature Honors: The Short Story	English	Honors Scale	0.5
College Literature: Shakespeare	English	Honors Scale	0.5
College Math	Math	100 Point Scale	1
College Preparatory Strategies For SAT/ACT Exams – Eng.	English	Pass Fail Scale	0.5
College Preparatory Strategies For SAT/ACT Exams – Math	Math	Pass Fail Scale	0.5
Composition, Communication & Research	English	100 Point Scale	0.5
Contemporary Literature Honors	English	Honors Scale	1
Creative Writing	English	100 Point Scale	0.5
CSI Roslyn: investigative Law	Social Studies	100 Point Scale	0.5
Design Your Brand: Adobe Illustrator for Creators	Art	100 Point Scale	0.5
Differential Equations	Math	AP Scale	0.5
Digital Art, Animation, and More with Procreate	Art	100 Point Scale	1
Digital Photography 1	Art	100 Point Scale	0.5
Digital Photography 2	Art	100 Point Scale	0.5
Economics	Social Studies	100 Point Scale	0.5
Economics Honors	Social Studies	Honors Scale	0.5
Electric Vehicle Engineering: Build the Future!	21st Century	100 Point Scale	0.5
English 1	English	100 Point Scale	1
English 1 Honors	English	Honors Scale	1
ENL 1	World Languages	100 Point Scale	1
ENL 2	World Languages	100 Point Scale	1
Epidemiology: Disease and You	Science	100 Point Scale	0.5
Fashion in Art 1	Art	100 Point Scale	0.5
Fashion in Art 2	Art	100 Point Scale	0.5
Fashion Marketing	Business	100 Point Scale	0.5
Film and Literature	English	100 Point Scale	0.5
First Aid Certification	Physical Education & Health	100 Point Scale	0.5
Forensic Science	Science	100 Point Scale	0.5
French 2	World Languages	100 Point Scale	1
French 2 Honors	World Languages	Honors Scale	1
French 3	World Languages	100 Point Scale	1
French 3 Honors	World Languages	Honors Scale	1
French 4 Honors	World Languages	Honors Scale	1
French Conversation Honors	World Languages	Honors Scale	1
Freshman Literature Strategies	English	100 Point Scale	0.5
Geometry	Math	100 Point Scale	1
Geometry Honors	Math	Honors Scale	1
Geometry RSH	Math	RSH Scale	1
Geometry Strategies	Math	100 Point Scale	0.5
Global History 1	Social Studies	100 Point Scale	1
Global History 1 Honors	Social Studies	Honors Scale	1
Global History 1 Seminar Honors	Social Studies	Honors Scale	1
Global History 2	Social Studies	100 Point Scale	1

Course Name	Department	Grade Scale	Credits
Global History 2 Honors	Social Studies	Honors Scale	1
Health	Physical Education & Health	100 Point Scale	0.5
Hydroponics	Science	100 Point Scale	0.5
INCubator@RHS Honors	Business	Honors Scale	1
Independent Humanities Research 1	English	RSH Scale	0.5
Independent Humanities Research 2	English	RSH Scale	0.5
Independent Study Research - Fall	Research	RSH Scale	0.5
Independent Study Research - Spring	Research	RSH Scale	0.5
Intermediate Studio Art	Art	100 Point Scale	1
Introduction to Biotechnology	21st Century	100 Point Scale	0.5
Introduction to Business	Business	100 Point Scale	0.5
Introduction to Java Programming Language	21st Century	100 Point Scale	0.5
Introduction to Research	Research	Pass Fail Scale	0.5
Introduction to Robotics	21st Century	100 Point Scale	0.5
Investments	Business	100 Point Scale	0.5
Jazz Choir	Music	100 Point Scale	0.25
Jazz Project	Music	100 Point Scale	0.25
Learning Center	Special Education	100 Point Scale	1
Legal History: A Gendered USA	Social Studies	100 Point Scale	0.5
Marine Biology	Science	100 Point Scale	0.5
Marketing 2 – Consumer Behavior	Business	100 Point Scale	0.5
Mastering AI: The Power of Prompt Engineering	21st Century	100 Point Scale	0.5
Math and Money in The Marketplace	Math	100 Point Scale	1
Media Broadcasting Production 1	21st Century	100 Point Scale	1
Media Broadcasting Production 2	21st Century	100 Point Scale	1
Mixed Chorus	Music	100 Point Scale	0.5
Mixed Media	Art	100 Point Scale	0.5
Multi-Variable Calculus	Math	AP Scale	0.5
Music Theory I	Music	100 Point Scale	1
New Media Communications (Journalism) I	English	100 Point Scale	0.5
New Media Communications (Journalism) II	English	100 Point Scale	0.5
Participation in Government	Social Studies	100 Point Scale	0.5
Participation in Government Honors	Social Studies	Honors Scale	0.5
PE	Physical Education & Health	100 Point Scale	0.5
PE – Extreme	Physical Education & Health	100 Point Scale	0.5
PE – Yoga	Physical Education & Health	100 Point Scale	0.5
Photography 1	Art	100 Point Scale	0.5
Photography 2	Art	100 Point Scale	0.5
Physical Setting-Chemistry Honors	Science	Honors Scale	1
Physical Setting-Chemistry Regents	Science	100 Point Scale	1
Physical Setting-Earth Science Honors	Science	Honors Scale	1
Physical Setting-Earth Science Regents	Science	100 Point Scale	1
Physical Setting-General Chemistry	Science	100 Point Scale	1
Physical Setting-General Physics	Science	100 Point Scale	1
Physical Setting-Physics Regents	Science	100 Point Scale	1
PLTW: Civil Engineering and Architecture (CEA)	21st Century	Honors Scale	1
PLTW: Computer integrated Manufacturing (CIM)	21st Century	Honors Scale	1
PLTW: Drawing and Design for Production (DDP/IED)	21st Century	Honors Scale	1
PLTW: Principles of Engineering (POE)	21st Century	Honors Scale	1
Podcasting 3.0: Long-Form Audio Storytelling	21st Century	100 Point Scale	0.5
Portfolio in Three-Dimensional (3-D) Design	Art	100 Point Scale	1
Portfolio in Two-Dimensional (2-D) Design	Art	100 Point Scale	1
Pre-Calculus	Math	100 Point Scale	1
Pre-Calculus Honors	Math	Honors Scale	1
Pre-Med	Science	100 Point Scale	0.5
Pre-Vet	Science	100 Point Scale	0.5
Psychology	Social Studies	100 Point Scale	0.5

Course Name	Department	Grade Scale	Credits
Psychology in Literature	English	100 Point Scale	0.5
Public Speaking: Owning the Crowd	English	100 Point Scale	0.5
Research Essentials	Research	Pass Fail Scale	0.5
Research Seminar	Research	RSH Scale	0.5
Resource Room	Special Education	100 Point Scale	1
Sculpture and Ceramics 1	Art	100 Point Scale	0.5
Sculpture and Ceramics 2	Art	100 Point Scale	0.5
Senior Seminar in Research	Research	Pass Fail Scale	0.5
Sophomore Literature Seminar Honors	English	Honors Scale	1
Spanish 1	World Languages	100 Point Scale	1
Spanish 2	World Languages	100 Point Scale	1
Spanish 2 Honors	World Languages	Honors Scale	1
Spanish 3	World Languages	100 Point Scale	1
Spanish 3 Honors	World Languages	Honors Scale	1
Spanish 4 Honors	World Languages	Honors Scale	1
Spanish 5 Honors Culture	World Languages	Honors Scale	1
Spanish Conversation Honors	World Languages	Honors Scale	1
Spanish Film	World Languages	100 Point Scale	1
Spanish Short Stories	World Languages	100 Point Scale	1
Spanish Short Stories Advanced	World Languages	100 Point Scale	1
Sports & Entertainment Marketing	Business	100 Point Scale	0.5
String Orchestra	Music	100 Point Scale	1
Studio Art	Art	100 Point Scale	1
Symphonic Band	Music	100 Point Scale	1
The History of Ethics: A Study from Genesis to COVID	Social Studies	100 Point Scale	0.5
The Living Environment Honors	Science	Honors Scale	1
The Living Environment Regents	Science	100 Point Scale	1
The Power of the Podcast: The Art of Modern Storytelling 1	21st Century	100 Point Scale	0.5
The Power of the Podcast: The Art of Modern Storytelling 2	21st Century	100 Point Scale	0.5
Theater	Music	100 Point Scale	0.5
United States History and Government	Social Studies	100 Point Scale	1
United States History and Government Honors	Social Studies	Honors Scale	1
Wall Street Bloomberg Foundations	Business	Honors Scale	1
Wind Ensemble	Music	100 Point Scale	1
World Humanities Seminar Honors – English	English	Honors Scale	1
World Humanities Seminar Honors – Social Studies	Social Studies	Honors Scale	1
World Literature	English	100 Point Scale	1



## COURSE LISTING – ALPHABETICAL BY DEPARTMENT

Course Name	Department	Grade Scale	Credits
Advanced Robotics	21st Century	100 Point Scale	0.5
AP Computer Science A	21st Century	AP Scale	1
AP Computer Science Principles	21st Century	AP Scale	1
App Inventor	21st Century	100 Point Scale	0.5
Artificial intelligence, Cybersecurity & Beyond	21st Century	AP Scale	1
Electric Vehicle Engineering: Build the Future!	21st Century	100 Point Scale	0.5
Introduction to Biotechnology	21st Century	100 Point Scale	0.5
Introduction to Java Programming Language	21st Century	100 Point Scale	0.5
Introduction to Robotics	21st Century	100 Point Scale	0.5
Media Broadcasting Production 1	21st Century	100 Point Scale	1
Media Broadcasting Production 2	21st Century	100 Point Scale	1
PLTW: Civil Engineering and Architecture (CEA)	21st Century	Honors Scale	1
PLTW: Computer integrated Manufacturing (CIM)	21st Century	Honors Scale	1
PLTW: Drawing and Design for Production (DDP/IED)	21st Century	Honors Scale	1
PLTW: Principles of Engineering (POE)	21st Century	Honors Scale	1
Podcasting 3.0: Long-Form Audio Storytelling	21st Century	100 Point Scale	0.5
Mastering AI: The Power of Prompt Engineering	21st Century	100 Point Scale	0.5
The Power of the Podcast: The Art of Modern Storytelling 1	21st Century	100 Point Scale	0.5
The Power of the Podcast: The Art of Modern Storytelling 2	21st Century	100 Point Scale	0.5
AP 2-D Art & Design	Art	AP Scale	1
AP 2-D Art & Design (Photo)	Art	AP Scale	1
AP 3-D Art & Design	Art	AP Scale	1
AP Art History	Art	AP Scale	1
Design Your Brand: Adobe Illustrator for Creators	Art	100 Point Scale	0.5
Digital Art, Animation, and More with Procreate	Art	100 Point Scale	1
Digital Photography 1	Art	100 Point Scale	0.5
Digital Photography 2	Art	100 Point Scale	0.5
Fashion in Art 1	Art	100 Point Scale	0.5
Fashion in Art 2	Art	100 Point Scale	0.5
Intermediate Studio Art	Art	100 Point Scale	1
Mixed Media	Art	100 Point Scale	0.5
Photography 1	Art	100 Point Scale	0.5
Photography 2	Art	100 Point Scale	0.5
Portfolio in Three-Dimensional (3-D) Design	Art	100 Point Scale	1
Portfolio in Two-Dimensional (2-D) Design	Art	100 Point Scale	1
Sculpture and Ceramics 1	Art	100 Point Scale	0.5
Sculpture and Ceramics 2	Art	100 Point Scale	0.5
Studio Art	Art	100 Point Scale	1
ACCEerator@RHS Honors	Business	Honors Scale	1
Accounting	Business	100 Point Scale	0.5
Bloomberg Financial Portfolio Management	Business	Honors Scale	0.5
Business Essentials	Business	100 Point Scale	0.5
Business Law	Business	100 Point Scale	0.5
Career & Financial Management	Business	100 Point Scale	0.5
Fashion Marketing	Business	100 Point Scale	0.5
INCubator@RHS Honors	Business	Honors Scale	1
Introduction to Business	Business	100 Point Scale	0.5
Investments	Business	100 Point Scale	0.5
Marketing 2 – Consumer Behavior	Business	100 Point Scale	0.5
Sports & Entertainment Marketing	Business	100 Point Scale	0.5
Wall Street Bloomberg Foundations	Business	Honors Scale	1
American Literature	English	100 Point Scale	1
American Literature and Analysis Honors	English	Honors Scale	1
AP English Language and Composition	English	AP Scale	1
AP English Language Strategies	English	Pass Fail Scale	0.5
AP English Literature and Composition	English	AP Scale	1

Course Name	Department	Grade Scale	Credits
College Literature Honors	English	Honors Scale	0.5
College Literature Honors: Multicultural Literature	English	Honors Scale	0.5
College Literature Honors: The Short Story	English	Honors Scale	0.5
College Literature: Shakespeare	English	Honors Scale	0.5
College Preparatory Strategies For SAT/ACT Exams – Eng.	English	Pass Fail Scale	0.5
Composition, Communication & Research	English	100 Point Scale	0.5
Contemporary Literature Honors	English	Honors Scale	1
Creative Writing	English	100 Point Scale	0.5
English 1	English	100 Point Scale	1
English 1 Honors	English	Honors Scale	1
Film and Literature	English	100 Point Scale	0.5
Freshman Literature Strategies	English	100 Point Scale	0.5
Independent Humanities Research 1	English	RSH Scale	0.5
Independent Humanities Research 2	English	RSH Scale	0.5
New Media Communications (Journalism) I	English	100 Point Scale	0.5
New Media Communications (Journalism) II	English	100 Point Scale	0.5
Psychology in Literature	English	100 Point Scale	0.5
Public Speaking: Owning the Crowd	English	100 Point Scale	0.5
Sophomore Literature Seminar Honors	English	Honors Scale	1
World Humanities Seminar Honors – English	English	Honors Scale	1
World Literature	English	100 Point Scale	1
Algebra 1	Math	100 Point Scale	1
Algebra 1 Strategies	Math	100 Point Scale	0.5
Algebra 2	Math	100 Point Scale	1
Algebra 2 Honors	Math	Honors Scale	1
Algebra 2 RSH	Math	RSH Scale	1
Algebra 2 Strategies	Math	100 Point Scale	0.5
Algebra 2A	Math	100 Point Scale	1
Algebra 2B	Math	100 Point Scale	1
AP Calculus AB	Math	AP Scale	1
AP Calculus BC	Math	AP Scale	1
AP Precalculus	Math	AP Scale	1
AP Statistics	Math	AP Scale	1
Applied Geometry	Math	100 Point Scale	1
Calculus	Math	100 Point Scale	1
College Math	Math	100 Point Scale	1
College Preparatory Strategies For SAT/ACT Exams – Math	Math	Pass Fail Scale	0.5
Differential Equations	Math	AP Scale	0.5
Geometry	Math	100 Point Scale	1
Geometry Honors	Math	Honors Scale	1
Geometry RSH	Math	RSH Scale	1
Geometry Strategies	Math	100 Point Scale	0.5
Math and Money in The Marketplace	Math	100 Point Scale	1
Multi-Variable Calculus	Math	AP Scale	0.5
Pre-Calculus	Math	100 Point Scale	1
Pre-Calculus Honors	Math	Honors Scale	1
AP Music Theory	Music	AP Scale	1
Chamber Orchestra	Music	100 Point Scale	1
Chamber Singers	Music	100 Point Scale	1
Jazz Choir	Music	100 Point Scale	0.25
Jazz Project	Music	100 Point Scale	0.25
Mixed Chorus	Music	100 Point Scale	0.5
Music Theory I	Music	100 Point Scale	1
String Orchestra	Music	100 Point Scale	1
Symphonic Band	Music	100 Point Scale	1
Theater	Music	100 Point Scale	0.5
Wind Ensemble	Music	100 Point Scale	1

Course Name	Department	Grade Scale	Credits
Adapted Physical Education	Physical Education & Health	100 Point Scale	0.5
First Aid Certification	Physical Education & Health	100 Point Scale	0.5
Health	Physical Education & Health	100 Point Scale	0.5
PE	Physical Education & Health	100 Point Scale	0.5
PE – Extreme	Physical Education & Health	100 Point Scale	0.5
PE – Yoga	Physical Education & Health	100 Point Scale	0.5
Independent Study Research - Fall	Research	RSH Scale	0.5
Independent Study Research - Spring	Research	RSH Scale	0.5
Introduction to Research	Research	Pass Fail Scale	0.5
Research Essentials	Research	Pass Fail Scale	0.5
Research Seminar	Research	RSH Scale	0.5
Senior Seminar in Research	Research	Pass Fail Scale	0.5
Advanced Pre-Med	Science	100 Point Scale	0.5
AP Biology	Science	AP Scale	1
AP Chemistry	Science	AP Scale	1
AP Environmental Science	Science	AP Scale	1
AP Physics 1	Science	AP Scale	1
AP Physics 1 & 2	Science	AP Scale	2
AP Physics C (Mechanics and Electricity and Magnetism)	Science	AP Scale	1
Applied Chemistry	Science	100 Point Scale	1
Applied Earth Science	Science	100 Point Scale	1
Applied Living Environment	Science	100 Point Scale	1
Astronomy	Science	100 Point Scale	0.5
Epidemiology: Disease and You	Science	100 Point Scale	0.5
Forensic Science	Science	100 Point Scale	0.5
Hydroponics	Science	100 Point Scale	0.5
Marine Biology	Science	100 Point Scale	0.5
Physical Setting-Chemistry Honors	Science	Honors Scale	1
Physical Setting-Chemistry Regents	Science	100 Point Scale	1
Physical Setting-Earth Science Honors	Science	Honors Scale	1
Physical Setting-Earth Science Regents	Science	100 Point Scale	1
Physical Setting-General Chemistry	Science	100 Point Scale	1
Physical Setting-General Physics	Science	100 Point Scale	1
Physical Setting-Physics Regents	Science	100 Point Scale	1
Pre-Med	Science	100 Point Scale	0.5
Pre-Vet	Science	100 Point Scale	0.5
The Living Environment Honors	Science	Honors Scale	1
The Living Environment Regents	Science	100 Point Scale	1
AP European History	Social Studies	AP Scale	1
AP Government and Politics	Social Studies	AP Scale	0.5
AP Human Geography	Social Studies	AP Scale	1
AP Macroeconomics	Social Studies	AP Scale	0.5
AP Psychology	Social Studies	AP Scale	1
AP US History	Social Studies	AP Scale	1
Child Psychology	Social Studies	100 Point Scale	0.5
CSI Roslyn: investigative Law	Social Studies	100 Point Scale	0.5
Economics	Social Studies	100 Point Scale	0.5
Economics Honors	Social Studies	Honors Scale	0.5
Global History 1	Social Studies	100 Point Scale	1
Global History 1 Honors	Social Studies	Honors Scale	1
Global History 1 Seminar Honors	Social Studies	Honors Scale	1
Global History 2	Social Studies	100 Point Scale	1
Global History 2 Honors	Social Studies	Honors Scale	1
Legal History: A Gendered USA	Social Studies	100 Point Scale	0.5
Participation in Government	Social Studies	100 Point Scale	0.5
Participation in Government Honors	Social Studies	Honors Scale	0.5
Psychology	Social Studies	100 Point Scale	0.5

Course Name	Department	Grade Scale	Credits
The History of Ethics: A Study from Genesis to COVID	Social Studies	100 Point Scale	0.5
United States History and Government	Social Studies	100 Point Scale	1
United States History and Government Honors	Social Studies	Honors Scale	1
World Humanities Seminar Honors – Social Studies	Social Studies	Honors Scale	1
Algebra 1A	Special Education	100 Point Scale	1
Algebra 1B	Special Education	100 Point Scale	1
Learning Center	Special Education	100 Point Scale	1
Resource Room	Special Education	100 Point Scale	1
American Sign Language 1	World Languages	100 Point Scale	1
American Sign Language 2	World Languages	100 Point Scale	1
American Sign Language 3	World Languages	100 Point Scale	1
American Sign Language 4	World Languages	100 Point Scale	1
AP Chinese Language and Culture	World Languages	AP Scale	1
AP French Language and Culture	World Languages	AP Scale	1
AP Spanish Language and Culture	World Languages	AP Scale	1
Chinese 2	World Languages	100 Point Scale	1
Chinese 2 Honors	World Languages	Honors Scale	1
Chinese 3	World Languages	100 Point Scale	1
Chinese 3 Honors	World Languages	Honors Scale	1
Chinese 4	World Languages	100 Point Scale	1
Chinese 4 Honors	World Languages	Honors Scale	1
Chinese 5	World Languages	100 Point Scale	1
ENL 1	World Languages	100 Point Scale	1
ENL 2	World Languages	100 Point Scale	1
French 2	World Languages	100 Point Scale	1
French 2 Honors	World Languages	Honors Scale	1
French 3	World Languages	100 Point Scale	1
French 3 Honors	World Languages	Honors Scale	1
French 4 Honors	World Languages	Honors Scale	1
French Conversation Honors	World Languages	Honors Scale	1
Spanish 1	World Languages	100 Point Scale	1
Spanish 2	World Languages	100 Point Scale	1
Spanish 2 Honors	World Languages	Honors Scale	1
Spanish 3	World Languages	100 Point Scale	1
Spanish 3 Honors	World Languages	Honors Scale	1
Spanish 4 Honors	World Languages	Honors Scale	1
Spanish 5 Honors Culture	World Languages	Honors Scale	1
Spanish Conversation Honors	World Languages	Honors Scale	1
Spanish Film	World Languages	100 Point Scale	1
Spanish Short Stories	World Languages	100 Point Scale	1
Spanish Short Stories Advanced	World Languages	100 Point Scale	1

### COURSE WEIGHTING & STUDENT TRANSCRIPT INFORMATION

Students will receive two averages on their transcript. The first GPA is calculated on the basis of all subjects for which a numerical grade is earned. High pass, pass and no credit courses are not included. Courses taken in 8th grade, for which credit is received, are also included in the GPA.

All students will receive a weighted grade point average:

- AP Courses will be weighted by 1.1
- Research Honors Courses will be weighted by 1.09
- Honors Courses will be weighted by 1.08
- Regents Courses/100 Point Scale/Pass-Fail will be weighted by 1.0

The weighted GPA will be based on all courses from 8th to 12th grade for subjects for which a numerical grade is earned. High pass, pass and no credit courses are not included. The unweighted GPA and the weighted GPA will appear on the transcript only. No individual course grade will change on the transcript.