

COURSE SELECTION GUIDE

2021 - 2022



SULLIVAN WEST HIGH SCHOOL

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COURSE SELECTION GUIDE

This Selection Guide contains a listing of courses that may be offered at Sullivan West High School. Final course offerings are subject to change.

The following information will help you use and understand this Selection Guide:

- All courses are listed by department
- Some courses, as noted, will be offered for 1 credit (full year), and some are offered for 1/2 credit (every day for one semester or every other day for full year)
- Some courses have a prerequisite (PR), and prerequisite courses must be completed before a student can enroll in subsequent courses
- Some courses are weighted for the purpose of calculating class rank—this information is available on page 7 of this guide or in the student handbook

When registering, students are requesting a course, not a specific teacher, time, or place. Any course for which there is insufficient enrollment may not be offered. Students are encouraged to remain in the courses they have selected for the school year.

Schedule changes should only be requested for: (1) failed required courses that occur after the registration process, (2) incomplete schedules when school begins, and (3) unforeseen exceptions. Changes in schedules will be minimal, and courses cannot be dropped after the first ten (10) days of the school year or semester. After the ten (10) day limit, courses registered for must be completed for credit.

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PLANNING YOUR OPTIONS

1. Read and review this Course Selection Guide carefully.
2. Create and revise your 4-year high school plan with your school counselor, making certain that you select the required courses prior to choosing your elective courses. Your 4-year planner is kept on file in the School Counseling Office. Be aware that student interests and ambitions change, and you are encouraged to craft a well-developed, comprehensive, and flexible 4-year high school plan. Appropriately sequence your courses in that 4-year plan.
3. Grade Point Average and extra-curricular activities are important measures in the college/university admissions process. Colleges/universities actively recruit students who have taken rigorous academic courses (all four years), excelled academically in high school courses and committed themselves to participating in sports, clubs, activities, and organizations.
4. To prepare for a technical career, students should consider hands on experiences through Career & Technical Education at Sullivan County BOCES. Career & Technical Education provides students the opportunity to train in a career field they are interested in and earn college credits and/or certifications in those fields.
5. Complete your Course Request Form for next year, consulting with and seeking the advice of your parents/guardians and adults whom you know in careers that are of interest to you.
6. Be certain that you have all required signatures (student, parent, teacher, counselor, and administrator, if required).

NYS GRADUATION REQUIREMENTS

Courses	Regents Diploma	Advanced Regents Diploma
English	4 credits	4 credits
Social Studies	4 credits	4 credits
Mathematics	3 credits	3 credits
Science	3 credits	3 credits
Language Other Than English	1 credit	3 credits*
Physical Education	2 credits	2 credits
Health	½ credit	½ credit
Art/Music	1 credit	1 credit
Electives	3 ½ credits	1 ½ credits
Total Credits	22 credits	22 credits

* 5 units in Art/Music/Business or Technology is an option in lieu of additional credits in LOTE

Regents Diploma Test Requirements	Advanced Regents Diploma Test Requirements
English Regents	English Regents
Global History Regents	Global History Regents
United States History Regents	United States History Regents
Math Regents	3 Math Regents
Science Regents	2 Science Regents
	Checkpoint B LOTE Exam

Students must pass required Regents exams with a score of 65 or higher unless otherwise specified

4+1 PATHWAY OPTION

Under the 4+1 Pathway Assessment option, students must take and pass four required Regents Exams or New York State Education Department-approved alternative assessments (one in each of the following subjects: English, Math, Science, and Social Studies) and a comparably rigorous assessment for the fifth required exam to graduate. There are five areas of focus for students to choose from, each requiring one additional assessment. Each Pathway results in a different designation on a student’s diploma, reflecting area of study.

Students interested in any of these options should speak with their school counselor to determine the appropriate course and assessment sequences.

Please refer to the NYS Education Department for information on multiple pathways and approved alternatives: <http://www.nysed.gov/common/nysed/files/programs/curriculum-instruction/multiplepathwayshandout.pdf>

DUAL CREDIT ENROLLMENT

Dual credit courses are those in which students can receive both high school and college credit. High school credit is awarded by Sullivan West High School and college credit is awarded by the college affiliated with the course. Sullivan West partners with SUNY Sullivan, Syracuse University, and Rochester Institute of Technology to offer dual credit courses.

- All fees associated with these courses are the responsibility of the student and his/her family. Financial assistance is available for students who receive free or reduced lunch.
- To receive college credit, students must receive a grade of a “C” or better as a final grade in the course.
- Students who do not earn credit in a college course are not eligible for a tuition refund.
- Upon completion of their senior year, students must request that a transcript be sent directly from each college from which they have taken courses to the college they will be attending.

DUAL CREDIT COURSE OFFERINGS	
SUNY SULLIVAN	English Composition Fundamentals of Speech Pre-Calculus Introduction to Calculus Statistics Linear Algebra Algebra & Trigonometry Intermediate Algebra Participation in Government Spanish French Advanced Digital Photography
SYRACUSE UNIVERSITY PROJECT ADVANCE	Chemistry Forensic Science
ROCHESTER INSTITUTE OF TECHNOLOGY (RIT) PROJECT LEAD THE WAY	Design & Drawing for Production Digital Electronics Principles of Engineering

ADVANCED PLACEMENT

Advanced Placement (AP) courses are offered at Sullivan West High School through the College Board. Students may earn college credit through the successful completion of the AP exam associated with the course in which they are enrolled.

- All fees associated with these exams are the responsibility of the student and his/her family. Financial assistance is available for students who receive free or reduced lunch.
- Students enrolled in AP courses are required to complete assigned summer work prior to beginning the course.

AP COURSE OFFERINGS	
	English Language & Composition English Literature & Composition Seminar World History United States History Psychology Biology

GRADING POLICY

As per Sullivan West School Board policy 7223, weighted cumulative averages will be used for the purpose of determining class rank. Weighted cumulative averages will be determined by giving additional weighting to those courses deemed more rigorous and academically challenging.

- Group One Courses (these receive a weighting factor of 1.05): Chemistry, Physics, Geometry, Algebra II, Pre-Calculus, LOTE beyond level 1, and SCCC dual credit courses that are pre-approved by the HS Principal
- Group Two Courses (these receive a weighting factor of 1.10): Calculus, Advanced Placement courses, courses sponsored by four-year colleges awarding credit, and other courses pre-approved by the HS principal

ENGLISH DEPARTMENT

GRADUATION REQUIREMENTS

Regents Diploma: Four (4) Credits; Pass ELA Regents Exam with at least a 65

Regents Diploma with Advanced Designation: Four (4) Credits; Pass ELA Regents Exam with at least a 65

PROJECTED COURSE SEQUENCE				
	9th Grade	10th Grade	11th Grade	12th Grade
Regents English	English 9 OR Honors English 9	English 10 OR Honors English 10	English 11 OR AP Language & Composition OR AP Literature & Composition	English 12 OR AP Language & Composition OR AP Literature & Composition AND/OR College English
Available Electives	Creative Writing	Creative Writing, Film & Literature, Podcasting, Multimedia Journalism, AND/OR AP Seminar	Creative Writing, Film & Literature, Podcasting, Multimedia Journalism, SAT Prep, Social Justice, AND/OR AP Seminar	Creative Writing, Film & Literature, Podcasting, Multimedia Journalism, Social Justice, AND/OR Senior Writing Lab

ENGLISH 9

The ninth-grade curriculum spans various literary genres including, but not limited to; poetry, plays, short stories, novels, essays, articles, and speeches. The NYS Regents Exam-aligned instruction includes close reading, evidence-based claims, research, and argumentation.

Writing skills will be studied, developed, and practiced.

PR: 8th Grade ELA

Credit: 1

Exam(s): Final

HONORS ENGLISH 9 *NEW COURSE

This course focuses on the reading, writing, and language skills that are essential for students' future coursework. Students are inspired to pursue close, critical reading and analytical writing. The course emphasizes the need for students to observe the small details in a reading to arrive at a deeper understanding of all different types of texts. Honors English 9 creates opportunities for the writer to focus on crafting complete and complex sentences, building this formative skill for future honors and AP courses.

PR: 8th Grade ELA

Credit: 1

Exam(s): Final

ENGLISH 10

The focus is world authors. Some of the author works studied include Orwell, Paton, Rand, Shakespeare, Sophocles, and Yeats. In addition to the conventional study of literature, students will have exposure to reading technical documents. Emphasis is placed on preparation for Regents Exam essays for Parts One and Two, writing for information. Students also write poetry and give oral reports. Class discussion and group discussions are not only for the purposes of information and understanding but for critical analysis and evaluation.

PR: English 9 or Honors English 9

Credit: 1

Exam(s): Final

HONORS ENGLISH 10 *NEW COURSE

This course invites participants to be challenged by a wide range of complex, diverse texts and engage in activities that encourage them to read closely, think deeply, and write effectively. Through that process, engaged learners will acquire a more sophisticated vocabulary, develop their critical reading and thinking skills, improve their writing through a study of grammar and rhetoric, and reflect on perspectives that may or may not align with their own. The rigor of the course is designed to prepare students for AP Language and Composition and AP Literature and Composition.

PR: English 9 or Honors English 9

Credit: 1

Exam(s): Final

ENGLISH 11

English 11 focuses on the study of American literature and analytical writing. At the end of the year, students are required to take the Comprehensive Examination in English. To prepare for this, students read novels, non-fiction, poetry, and drama. The writing component for each literature unit provides multiple opportunities to develop the essential strategies needed to pass the State exam and prepare for college. Time is set aside for SAT prep through specific vocabulary, grammar, and writing exercises. This course concludes with the ELA Regents Exam.

PR: English 10

Credit: 1

Exam(s): Regents Exam

AP LANGUAGE & COMPOSITION

This course is a rigorous and sophisticated course. Students will prepare for both the Advanced Placement Exam in Language and Composition and, if taken in 11th grade, the ELA Regents Exam. Students who are both skilled readers and adept at decoding complex prose and period pieces will do well in this class. There is a substantial amount of reading and writing, including summer work.

PR: English 10

Credit: 1

Exam(s): AP & Regents Exam

ENGLISH 12

This course encompasses various genres and skills. Students investigate literature (fiction, non-fiction, poetry, drama, and writing), practice public speaking, and improve study skills. Students become more adept at library research, outlining, and note-taking by working on individual projects. Writing proficiency is stressed to prepare students for college and the work force.

PR: English 11 or English 11 AP

Credit: 1

Exam(s): Final

AP LITERATURE & COMPOSITION

This course is a rigorous and sophisticated course. Students will prepare for the Literature and Composition Advanced Placement Exam and, if taken in 11th grade, the ELA Regents exam. Students who are both skilled readers and adept at decoding complex prose, poetry, and period pieces will do well in this class. AP Literature & Composition meets the English 11 or 12 requirement for graduation. Students who intend to enter a four-year Bachelor program in college should strongly consider this alternative. There is a substantial amount of reading and writing, including summer work.

PR: 10th Grade

Credit: 1

Exam(s): AP & Regents Exam

COLLEGE ENGLISH

A full-year course in which students earn the one (1) English 12 credit needed to graduate and earn college credit for Fundamentals of Speech (3 SCCC credits) and Composition (3 SCCC credits). Fundamentals of Speech provides public speaking training and practice. Composition is a writing-intensive course in which students draft and revise college-level essays. Students study the conventions of academic prose, examine various methods of organization and development, and learn research skills. Fundamentals of Speech and Composition are taught along with the NYS English 12 curriculum.

* All SCCC fees are the responsibility of the student and his/her family.

PR: English 11 or English 11 AP

Credit: 1 HS, 6 SCCC

Exam(s): Final

AP SEMINAR

In this course, students will learn to consider an issue from multiple perspectives, identify credible sources, evaluate strengths and weaknesses of arguments, and make logical, evidence-based recommendations. Students will investigate a variety of topics through various viewpoints of your choice. Students complete a team project and an individual paper and presentation, as well as take a written end-of-course exam. These components contribute to the overall AP Seminar score.

PR: 9th Grade

Credit: 1

Exam(s): AP

SAT PREPARATION/ENGLISH

Students focus on vocabulary building, reading comprehension, and other skills to help prepare them for the English portion of standardized tests. Taken concurrently with SAT Prep/Math.

PR: College Bound

Credit: 1/4

Exam(s): Final

CREATIVE WRITING

Students will examine a variety of genres, including poetry, creative non-fiction, short stories, and drama. Students will analyze exemplary authors and create and refine their own masterpieces that will be included in personal portfolios.

PR: None

Credit: 1/2

Exam(s): Final

SENIOR WRITING LAB

Senior Writing Lab is designed to prepare students for post-secondary education. Students will receive instruction in how to complete online college applications, how to write and revamp academic resumes, letters of interest for potential jobs, personal statements, and college application essays. Students will also research various scholarship opportunities and learn how to write and edit scholarship essays. If time allows, students may practice interviewing skills and explore career options.

PR: College Bound

Credit: 1/2

Exam(s): None

SOCIAL JUSTICE

This is a course that touches on the fields of sociology, psychology, philosophy, history, science, literature, media, and art to introduce students to the study of identity in American society. We will focus on contemporary issues with reference to how history set the stage for the society we have today. We will examine lived experience with an emphasis on how race, class, gender, ability, and sexuality shape our identities. The goal is to foster critical thinking about how interlocking systems of racism, sexism, ableism, and heterosexism shape who we are, based on our individual social location and experiences of privilege and oppression. We will also examine how individuals have resisted inequality, worked to create new systems of change, and engaged in transformational and liberating politics. We will place these contemporary issues within their historical, cultural, and theoretical contexts, and students will have the opportunity to engage in active discussion daily.

PR: 10th Grade

Credit: 1/2

Exam(s): Final

FILM AND LITERATURE *NEW COURSE

“The book was so much better than the movie! What happened?” Over the last hundred years, filmmakers have been transforming the works of writers from Shakespeare to John Green with the goal of breathing new life into old characters. This course will explore original texts before analyzing their film adaptations. Using critical reading and viewing skills, students will respond to texts by creating multimedia presentations and generating argumentative essays that compare and contrast the film and written texts.

PR: 10th Grade or by permission of department or building administration

Credit: 1/2

Exam(s): Final

PODCASTING *NEW COURSE

Students will review and discuss multiple podcasts looking for quality presentations and ideas for discussions. Students will learn the basics of podcasting and be given the opportunity to start their own. Attached is a link for the College Board's podcasting elective from which we will build the course.

*<https://elective.collegeboard.org/podcasting-classroom-users-guide>

PR: 10th Grade or by permission of department or building administration

Credit: 1/2

Exam(s): Final

MULTIMEDIA JOURNALISM *NEW COURSE

Gone are the days when mailboxes on every street were stuffed with a print newspaper. Today, the news is delivered through an increasing variety of digital formats, including blogs, YouTube channels, podcasts, social media, and photojournalism slideshows. In this course, students will learn through a hands-on approach, how to create and publish relevant news in a variety of mediums. With a keen eye towards basic journalistic ideals and ethics, the course will have a core emphasis on developing specific writing skills for these formats and critical thinking. Come explore the world of journalism through a variety of new avenues.

PR: 10th Grade or by permission of department or building administration

Credit: 1/2

Exam(s): Final

SOCIAL STUDIES

GRADUATION REQUIREMENTS

Regents Diploma: Four (4) Credits; Pass 1 Regents Exam with at least a 65

Regents Diploma with Advanced Designation: Four (4) Credits; Pass 2 Regents Exams (Global & US History) with at least a 65

PROJECTED COURSE SEQUENCE				
	9th Grade	10th Grade	11th Grade	12th Grade
Regents Social Studies	Global History I OR AP World History I – Ancient History	Global History II OR AP World History II – Modern History	US History OR AP US History	Participation in Government OR College Participation in Government AND Economics
Available Electives		Psychology Sociology AND/OR AP Psychology	Psychology Sociology AND/OR AP Psychology	Psychology Sociology AND/OR AP Psychology

GLOBAL HISTORY I

Global History and Geography is the first half of a two-year course and begins with an overview of the Social Sciences and Geographic Themes. The chronological course of study covers the early history of people through 1750.

PR: None

Credit: 1

Exam(s): Final

GLOBAL HISTORY II

Global History II continues the study of history through the present. Students work on critical thinking, reading, and writing skills necessary for success on the Regents Exam. Current events and issues are important parts of each course.

PR: Global I or World History I

Credit: 1

Exam(s): Regents

ADVANCED PLACEMENT WORLD HISTORY I – ANCIENT HISTORY

An advanced course covering various topics encompassing six historical time periods from approximately 8000 B.C. to the present. These periods include Technological and Environmental Transformations, Organization and Reorganization of Human Societies, Regional and Trans regional Interactions, Global Interactions, Industrialization and Global Integration, and Accelerating Global Change and Realignments.

PR: None

Credit: 1

Exam(s): Final

ADVANCED PLACEMENT WORLD HISTORY II – MODERN HISTORY

Continues course work begun in World History I with a focus on preparing students to take the AP World History exam in May and the Global History and Geography Regents exam in June.

PR: AP World History I

Credit: 1

Exam(s): Regents Exam & AP

UNITED STATES HISTORY & GOVERNMENT

United States History and Government covers American history from the creation of the government through the course of events from 1865 to the present. The major themes discussed and covered are the foundations of the U.S. Government including the Constitution, the Articles of Confederation, and the Bill of Rights; the Industrialization of the U.S.; U.S. Foreign Policy; and American Culture from 1920 to the present.

PR: None

Credit: 1

Exam(s): Regents

ADVANCED PLACEMENT UNITED STATES HISTORY & GOVERNMENT

This class combines traditional and revisionist interpretations of American History. It also employs historical, political, economic, and social analyses of movements in American History from the Colonial Period to the present. Essays, research projects, independent work, and summer work will be required.

PR: None

Credit: 1

Exam(s): Regents & AP

PARTICIPATION IN GOVERNMENT

Central to this course is the belief that participation in government and community at all levels are critical to the success of a democracy. Students have practical opportunities to work cooperatively on projects, solve problems, identify social and political issues, gain a working knowledge of the court system, choose candidates for public office, and work with people in the community and government.

PR: None

Credit: 1/2

Exam(s): Final

COLLEGE PARTICIPATION IN GOVERNMENT (SCCC)

Designed to give students a critical perspective on government and politics in the United States. It examines American institutions, interest groups, political ideologies, and ideas that make up the American political scene.

* SCCC fees are the responsibility of the student and his/her family.

PR: None

Credit: 1/2

Exam(s): Final

ECONOMICS

This course is designed to provide students with an understanding of the vital role economics plays in our society. Students examine the elements of the economy and the ways in which the economy works. The choices individuals (microeconomics) and nations (macroeconomics) make to meet the needs in a fast changing global economy are explored. Students have practical opportunities to explore the issues of the changing workplace, the role of government and institutions in the economy, the stock market, and the impact of technology.

PR: None

Credit: 1/2

Exam(s): Final

PSYCHOLOGY

Topics include the history of psychology, research psychology, learning and cognition, the study of personality, and the study of psychological disorders and their treatments.

PR: 10th Grade

Credit: 1/2

Exam(s): Final

SOCIOLOGY

Topics include research in sociology, socialization and culture, social deviance and control, social stratification, and an examination of social institutions and the impact of social change on American society.

PR: 10th Grade

Credit: 1/2

Exam(s): Final

ADVANCED PLACEMENT PSYCHOLOGY

The purpose of AP Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. In the process, it prepares students to take the College Board AP exam in psychology.

PR: 10th Grade

Recommended: Living Environment & Algebra II

Credit: 1

Exam(s): Final & AP Exam

SCIENCE DEPARTMENT

GRADUATION REQUIREMENTS

Regents Diploma: Three (3) Credits - 1 Credit in Life Science, 1 Credit in Physical Science; Pass 1 Science Regents Exam with at least a 65

Regents Diploma with Advanced Designation: Three (3) Credits; Pass 2 Science Regents Exams with at least a 65 - 1 Regents in Life Science, 1 Regents in Physical Science

Mastery in Science: Regents Diploma with Advanced Designation; Score of 85 or better on 3 Science Regents Exams

PROJECTED COURSE SEQUENCE					
	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Regents Science	8th Grade Science	Living Environment, Earth Science OR Foundations in Science	Earth Science OR Living Environment	Elective	
Advanced Regents Science	8th Grade Science	Earth Science OR Living Environment	Living Environment OR Earth Science	Chemistry OR Physics	
Advanced Regents Science	Earth Science	Living Environment	Chemistry (recommended) OR Physics	Physics AND/OR SUPA Chemistry AP Biology	
Available Electives		Natural Resources, Agriscience (In addition to Regents Science)	Natural Resources, Agriscience	SUPA Forensics Astronomy Natural Resources Agriscience OR SC BOCES Career & Technical Education Program: Animal Science or Health Occupations	

FOUNDATIONS OF SCIENCE

This course will provide students with the scientific skills needed to successfully complete a Regent's Level course in either the Living Environment or Earth Science. The Nature of Science and Data Collection, as well as laboratory skills will be emphasized. "Real life" science topics will be studied. These may include climate change, acid rain, and other human impacts on the environment as well as weather events such as hurricanes, tornadoes, and volcanic eruptions. Students may also suggest topics to study that interest them. Many interactive websites will be utilized in the course.

PR: None

Credit: 1

Exam: Final

LIVING ENVIRONMENT

This course is an extensive overview of basic biological concepts. The study of the origins and history of life and once living things, the structures of living things, how living things interact with one another and how living things function are explored. The course has a laboratory requirement that must be satisfied for admission to the Regents Exam in Living Environment.

PR: None

Credit: 1

Exam(s): Regents

EARTH SCIENCE

Students in Earth Science will apply basic concepts in all branches of the field which include geology, meteorology, astronomy, and oceanography. Problem-solving and decision making will be stressed as well as interpretation of maps, graphs, tables, and charts in each of these areas. Major topics include plate tectonics, the rock cycle, the Earth's history, the oceans, weather, the solar system, and the universe. The course has a laboratory requirement that must be satisfied for admission to the Regents Exam in Earth Science.

PR: None

Credit: 1

Exam(s): Regents

CHEMISTRY

The class is divided into units that cover the fundamentals of chemistry, including: matter and energy, atomic structure, bonding, formulas and equations, the periodic table, chemical calculations, solutions, forces that drive reactions, kinetics, rates of reaction equilibrium, acids and bases, redox and electrochemistry, organic chemistry, nuclear chemistry, and finally a complete review for the Regents Exam in Chemistry. Students are encouraged to have completed course work in Earth Science, Living Environment, and Algebra prior to enrolling in this course.

PR: Living Environment or Earth Science

Credit: 1

Exam(s): Regents

SUPA CHEMISTRY

SUPA Chemistry is a college course offered through Syracuse University. Juniors or seniors who have already taken and passed Regents Chemistry are eligible to take this course. Syracuse University strongly recommends that students have an average of 85 or higher in Regents level Chemistry to enroll in SUPA Chemistry. Topics build upon the fundamentals of high school chemistry and include: stoichiometry, thermochemistry, chemical bonding, gases, intermolecular forces, molecular geometry, chemical kinetics, chemical equilibrium, electrochemistry, and nuclear chemistry. Students should be good problem solvers and expect to work at the Freshman College level. Students will take final exams at the end of both the fall and spring semesters created by Syracuse University professors.

* All Syracuse University fees are the responsibility of the student and his/her family.

PR: 2 credits in Science including Regents Chemistry

Credit: 1 HS, 8 SUPA

Exam(s): SUPA Final

PHYSICS

The course studies the core curriculum areas of Physics; mechanics, matter and energy, electricity and magnetism, wave phenomenon, and modern physics. The course is suitable for students who want to pursue college work in any of the sciences or engineering majors.

PR: 2 credits in Science

Credit: 1

Exam(s): Regents

AP BIOLOGY *REINTRODUCED FOR 2021-2022

AP Biology builds on similar topics covered in high school biology at an introductory college level. Chemical relationships to biological systems are learned and applied. Major content areas include molecules and cells, heredity and evolution, and organisms and populations. There are twelve required labs.

PR: Living Environment & Chemistry

Credit: 1

Exam(s): AP

NATURAL RESOURCES

In this full year course, students will learn the fundamentals of Natural Resources through the inventory of the Lake Huntington campus property. The course will include plant and animal identification, data collection and analysis, GPS, land use, forestry management, pollution, water quality, invasive species, wilderness survival techniques, & leadership. This course will include time outdoors and the handling of water, soil, and plants. It is recommended to have rugged, outdoor clothes for outdoor labs as well as hiking boots.

PR: None

Credit: 1

Exam(s): Final

AGRISCIENCE *NEW COURSE

This one credit, year-long course will explore biotechnology, agriculture structures, tools & equipment, biofuels, power systems, and agriculture business and math principles. We will explore local agriculture including beef, dairy, poultry, equine, swine, sheep & goat, horticulture, crop production, and ecology, wildlife, and forest science. This course includes outdoor field work and project-based learning as well as classroom activities.

PR: None

Credit: 1

Exam(s): Final

SUPA FORENSIC SCIENCE

The class focuses on the scientific methods and applications that are related to crime and law enforcement. Topics included are blood analysis, organic and inorganic evidence analysis, microscopic investigations, hair analysis, DNA, drug chemistry and toxicology, fiber comparisons, paints, glass compositions and fragmentation, fingerprints and arson investigations laboratory exercises will include techniques commonly employed in forensics investigations.

PR: 2 credits in Science; 11th Grade

Credit: 1

Exam(s): SUPA Final

ASTRONOMY & AEROSPACE SCIENCE

A survey of modern astronomy, and clarify our place in the universe, both historically and in terms of our current state of affairs. Students will study significant aspects of aerospace science. These will include: the Apollo lunar program, current manned and unmanned missions, and atmospheric flight. A major focus of the class will be the career opportunities offered by the vast aerospace industry. Students will come away with a deeper understanding of the cutting-edge nature of the industry and an awareness of the current state of our space program. The course introduces drone piloting and concepts of drone integration with our technology.

PR: 2 credits in Science

Credit: 1/2

Exam(s): Final

MATHEMATICS DEPARTMENT

GRADUATION REQUIREMENTS

Regents Diploma: Three (3) Credits; Pass Algebra Regents Exam with at least a 65

Regents Diploma with Advanced Designation: Three (3) Credits; Pass Algebra, Geometry, and Algebra II Regents Exam with at least a 65

PROJECTED COURSE SEQUENCE					
	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Regents Math	8th Grade Math	Introduction to Algebra I	Introduction to Algebra II	Business Math, Math Applications, College Intermediate Algebra, AND/OR CTE Math (2 years for 1 credit)	
Regents Math	8th Grade Math	Algebra	Geometry, Business Math, Math Applications, OR College Intermediate Algebra	Business Math, College Algebra & Trigonometry AND/OR SAT Math	Statistics AND/OR Business Math
Advanced Regents Math	8 th Grade Math OR Algebra	Algebra OR Geometry	Geometry OR Algebra II	Algebra II OR Pre-calculus, Statistics, AND/OR SAT Math	Pre-calculus, Introduction to Calculus, Statistics, AND/OR Linear Algebra

ALGEBRA

This course covers general concepts of algebra, geometry, trigonometry, probability, statistics, and problem solving. It is offered on two levels:

1. Introduction to Algebra I one credit

 Introduction to Algebra II one credit

2. Algebra one credit

PR: 8th Grade Math

Credit: 1

Exam(s): Regents

GEOMETRY

A one-credit course covering advanced topics in algebra, geometry (including proofs), coordinate geometry (including proofs), circle geometry, transformations, problem solving and logic (including proofs).

PR: Algebra

Credit: 1

Exam(s): Regents

ALGEBRA II

A one-credit course covering topics in rational numbers and expressions, relations and functions, advanced topic in trigonometry, trig equations and identities, irrational and complex numbers, exponential and logarithmic functions, probability and statistics.

PR: Geometry

Credit: 1

Exam(s): Regents

MATH APPLICATIONS

This one-year course covers selected topics from the Geometry and Algebra II curriculum. It provides the third year (credit) of mathematics required for graduation.

PR: Algebra

Credit: 1

Exam(s): Final

STATISTICS (SCCC)

Topics include probability, frequency distribution, mean and standard deviation, binomial distribution, testing hypothesis, samples from a finite population, regression, and correlation.

*SCCC fees are the responsibility of the student and his/her family.

PR: Algebra II

Credit: 1/2 HS, 3 SCCC

Exam(s): Final

PRE-CALCULUS (SCCC)

This course covers topics in polynomial, rational, exponential and logarithmic functions, functional inverses, inequalities, systems of equations, introductory matrix mathematics and the binomial theorem.

*SCCC fees are the responsibility of the student and his/her family.

PR: Algebra II

Credit: 1 HS, 4 SCCC

Exam(s): Final

INTRODUCTION TO CALCULUS (SCCC)

This half-year course reviews algebra, advanced algebra and Cartesian plane geometry, conic sections, algebraic functions, polar coordinates, limits and continuity, derivatives, and their applications and the integral.

* SCCC fees are the responsibility of the student and his/her family.

PR: Algebra II, Pre-Calculus

Credit: 1/2 HS, 4 SCCC

Exam(s): Final

SAT PREPARATION/MATH

Development of skills and analytical thinking related to standardized test-taking. Taken concurrently with SAT Prep/English.

PR: College-bound

Credits: 1/4

Exam: Final

COLLEGE ALGEBRA & TRIGONOMETRY (SCCC)

Students learn about polynomials, radicals, trigonometry of right tri-angles, laws of Sine and Cosine, and the following types of functions: linear, quadratic, polynomial, rational, radical, exponential, and logarithmic.

* SCCC fees are the responsibility of the student and his/her family.

PR: Algebra & Geometry

Credit: 1/2 HS, 4 SCCC

Exam(s): Final

COLLEGE INTERMEDIATE ALGEBRA (SCCC)

Students review basic algebra and learn about polynomials, radicals, and linear inequalities. They learn to graph and work with linear, quadratic, polynomial, rational, radical, and exponential functions. Students receive 3 college credits for successful completion.

* SCCC fees are the responsibility of the student and his/her family.

PR: Algebra or Intro to Algebra I & Intro to Algebra II

Credit: 1/2 HS, 3 SCCC

Exam(s): Final

LINEAR ALGEBRA (SCCC)

Linear algebra includes the study of geometrical vectors, matrices and simultaneous linear equations, vector spaces, linear transformations, determinants, and inner product spaces with particular emphasis on applications to the social, management, and physical sciences.

* SCCC fees are the responsibility of the student and his/her family.

PR: Pre-calculus

Credit: 1/2 HS, 3 SCCC

Exam(s): Final

LANGUAGE OTHER THAN ENGLISH

Graduation Requirements

Regents Diploma: 8th Grade – One (1) Credit and Pass LOTE Local Proficiency Exam with at least a 65; 9th Grade – One (1) Credit or Pass LOTE Local Proficiency Exam with at least a 65

Regents Diploma with Advanced Designation: One pathway to this diploma is through LOTE: Three (3) Credits; Pass Locally Developed Checkpoint B LOTE with at least a 65

	9th Grade	10th Grade	11th Grade	12th Grade
Regents Language	Spanish 1 Spanish 1A2 French 1A2			
Advanced Regents Language	Spanish 1A2 French 1A2	Spanish 2 French 2	Spanish 3 French 3	College Spanish College French

SPANISH I

Required of students who did not successfully complete the first half of the beginning level of middle school Spanish.

PR: None

Credit: 1

Exam(s): Final

SPANISH IA2

This course expands on topics first introduced in Spanish 1A1. Present usage in topics ranging from useful expressions, personal identification, leisure, education, family, meal taking, health and welfare, shopping, leisure, and travel are addressed in greater depth.

PR: Spanish IA1

Credit: 1

Exam(s): LOTE Local Proficiency

SPANISH II

Building on topics introduced in Spanish IA2, Spanish II increases the use of vocabulary in such diverse topics as personal identification, earning a living, the neighborhood, leisure, family life, meal taking, shopping, the physical environment and travel. Grammar is introduced in the two past tenses, perfect and imperfect commands. The course is recommended to students who have an interest in languages other than English and for students seeking an Advanced Regents Diploma.

PR: Spanish IA2

Credit: 1

Exam(s): Final

SPANISH III

Spanish III is an upper-level course designed to heighten student communication and broaden cultural understanding of the Spanish-speaking world. Reading, writing, listening, and speaking exercises are designed to enrich student communication. Previously learned grammar skills and vocabulary will be reviewed and refined throughout the course. New grammar concepts and vocabulary will also be learned. The acquisition of these skills is crucial for student growth in class, success on the final exam, and necessary for subsequent Spanish courses. Topics of study include meal-taking, shopping, physical environment, travel, education, art and music, leisure, uses of media, and personal identification. Recommended for students seeking an Advanced Regents Diploma.

PR: Spanish II

Credit: 1

Exam(s): Locally Developed Checkpoint B LOTE

COLLEGE SPANISH (SCCC)

College Spanish is course designed to heighten student communication and broaden cultural understanding of the Spanish-speaking world. Reading, writing, listening, and speaking exercises are designed to enrich student communication while being exposed to upper-level grammar, civilization and culture, and literature and art. Previously learned grammar skills and vocabulary will be reviewed and refined throughout the course. New grammar concepts and vocabulary will also be learned. The acquisition of these skills is crucial to student success in class, on the final exam, and in subsequent Spanish courses at the college level.

* SCCC fees are the responsibility of the student and his/her family.

PR: Spanish III

Credit: 1 HS, 3 SCCC

Exam(s): Final

FRENCH IA2

This course expands on topics first introduced in French 1A1. Present usage in topics ranging from useful expressions, personal identification, leisure, education, family, meal taking, health and welfare, shopping, leisure, and travel are expounded on.

PR: French IA1

Credit: 1

Exam(s): LOTE Local Proficiency

FRENCH II

Building on topics introduced in French 1A2, French II increases the use of vocabulary in such diverse topics as personal identification, earning a living, the neighborhood, leisure, family life, meal taking, shopping, the physical environment and travel. Grammar is introduced in the two past tenses, perfect and imperfect commands. The course is recommended to students who have an interest in languages other than English and for students seeking an Advanced Regents Diploma.

PR: French IA2

Credit: 1

Exam(s): Final

FRENCH III

French III an intermediary level course with a more challenging curriculum. It consists of advanced independent and group work with emphasis on student-centered and student-discovery style learning. Students will be required to read cultural readings in the target language and more advanced French literature and regalia, listen to examples of every day French conversations and music, and discuss all the above in the target language in order to hone reading, writing, listening and speaking skills. This will prepare students for the French Exam at the end of the semester. Recommended for students seeking an Advanced Regents Diploma.

PR: French II

Credit: 1

Exam(s): Locally Developed Checkpoint B LOTE

COLLEGE FRENCH (SCCC)

This course concentrates on a variety of topics such as: Art, History, Geography, and Culture, as well as authentic literary pieces delivered in a progressive manner so as to correspond to the linguistic abilities of the students. The literary works will be introduced via summaries and synopses. Students will acquaint with French authors. Genres include short stories, as well as an introduction to novels. We will also view live feed of news and films in French upon which students will deliver verbal and written work. Students will learn new ways to look at the world as they compare and contrast artistic styles. They will be encouraged to discover the richness of French history and an awareness of the geography of the Francophone world. We will also discuss and explore modern day topics such as the environment and technology.

Recommended for students who wish to continue their study of the French Language at an advanced level.

* SCCC fees are the responsibility of the student and his/her family.

PR: French III

Credit: 1 HS, 3 SCCC

Exam(s): Final

PHYSICAL EDUCATION DEPARTMENT

GRADUATION REQUIREMENTS

Regents Diploma: Two (2) Credits in Physical Education

Regents Diploma with Advanced Designation: Two (2) Credits in Physical Education

PHYSICAL EDUCATION

Physical Education involves students in a variety of individual and team activities. Students are expected to build upon skills learned in previous courses while acquiring knowledge regarding officiating, strategies, teamwork, etc. The students will eventually participate in all aspects of the game (coaching, officiating, and scorekeeping). The goal of this course is to provide students with the knowledge and understanding of various activities so that they may continue to be involved in athletic activities upon graduation and throughout their adult lives.

PR: None

Credit: 1/2

Exam(s): Final

PERSONAL FITNESS

This course is designed to provide students with opportunities to develop knowledge, skills, and positive attitudes for a lifetime of fitness, wellness, and physical activity. The class emphases are: 1) physical skill through cardiovascular training and exercises including endurance, strength, flexibility, and conditioning activities; 2) body awareness using tri-fit testing and journal entries; 3) life-long participation in physical fitness and its importance to overall wellness; and 4) identification of the muscular system and exercises that activate which muscles.

PR: None

Credit: 1/2

Exam(s): Final

STRENGTH TRAINING

Strength Training is a course designed to allow high school students another way to receive Physical Education credit necessary for graduation and learn the basics of specific workouts based around muscle groups. Strength training is a vital part of a balanced exercise routine that includes aerobic activity and flexibility exercises. Strength training uses resistance methods like free weights, weight machines, resistance bands, or a person's own weight to build muscles and strength.

PR: None

Credit: 1/2

Exam(s): Final

THREE SPORT EXEMPTION

This is an option for students who participate in three sports during the school year. To qualify, a student must first have completed three school sports in the fall, winter, and spring of the previous year. After being approved, students must then complete three school sports in the present year in order to receive $\frac{1}{2}$ credit for that year. Students need to apply each year for this option.

PR: Participation in 3 sports during the prior school year; 10th grade

Credit: 1/2

Exam(s): None

HEALTH DEPARTMENT

GRADUATION REQUIREMENTS

Regents Diploma: One Half (1/2) Credit in Health

Regents Diploma with Advanced Designation: One Half (1/2) Credit in Health

HIGH SCHOOL HEALTH

In this course students learn to make decisions and evaluate the changing world and how these changes affect their lives. Culture's messages and teens' struggles with identity issues and the effects of mass media ad campaigns are studied. Body image obsessions, eating disorders, and steroid use are examined as consequences of teens' dissatisfaction with their self-images as compared to societal standards. Drug and alcohol use/abuse and teen sexual issues are also examined in depth with an emphasis on making healthier choices. Additional topics may include date rape, teen pregnancy, sexually transmitted disease (STDs), safer sex, media influences on teen decisions, drunk driving, zero tolerance, designer drugs, how drinking and drugging influence decision-making.

PR: None

Credit: 1/2

Exam(s): Final

WOMEN'S HEALTH AND WELLNESS ***NEW COURSE**

This course focuses on women's health and wellness issues from adolescence years through young adult years to late adulthood. Students will understand the elements of mental, emotional, physical, social, and spiritual health in relation to common women health and wellness issues. Issues that will be explored are relationships, sexual health, nutrition, body image, exercise, nutrition, stress, female reproductive system, and acute and chronic diseases. Students will analyze how health and behavior choices can impact current and long-term health, promoting positive health and behavior choices to enhance individual well-being. Self-empowerment in relation to health promotion and disease prevention will also be stressed.

PR: None

Credit: 1/2

Exam(s): Final

VISUAL ARTS DEPARTMENT

GRADUATION REQUIREMENTS

Regents Diploma: One (1) Credit in Art or Music

Regents Diploma with Advanced Designation: One (1) Credit in Art or Music

PROJECTED COURSE SEQUENCE				
	9 th Grade	10 th Grade	11 th grade	12 th grade
Fine Arts	Studio in Art (required foundation)	Multimedia (multiple sections allowed)	Multimedia (multiple sections allowed)	Multimedia (multiple sections allowed)
Photography	Studio in Art (preferred prior to starting Photography Pathway)	Open Elective Choice OR Digital Photography	Digital Photography OR College Digital Photography	College Digital Photography OR Open Elective Choice
Fine & Digital	Studio in Art (Required foundation)	Digital Photography & Multimedia OR Multimedia (multiple sections allowed)	College Photography & Multimedia OR Digital Photography & Multimedia	Multimedia (multiple sections allowed) OR College Digital Photography & Multimedia

STUDIO IN ART

Studio Art is an introductory course to all aspects of the art making process. It provides knowledge and skill in drawing, painting, sculpture, and digital media allowing you to work with new materials, discover master and contemporary artists, and begin to find your voice as an artist. This course is a prerequisite for Multimedia.

PR: None

Credit: 1

Exam(s): Final

MULTIMEDIA

Multimedia in an advanced level course that explores various artistic behaviors. Students will develop the skills to think like an artist. Focus will be placed on learning how to view the world with curiosity, adapt solutions to fit a variety of problems, and foster the passion to express themselves visually. Lessons offer technical skill building as well as knowledge of artists throughout history and cultures that relate to the specific goals of each student. Students will work to create projects that are focused on their specific interests and goals as an artist. This course offers different levels of support for each student to find success. Students will work to create project proposals to stimulate brainstorming and a strong plan prior to starting. Whether you are an emerging artist or have a strong artistic voice already, this course is tailored to your needs as an individual and is student driven. Mediums students may **choose** to explore include but are not limited to: **Oil, acrylic, and watercolor painting, drawing, ceramics, printmaking, collage, papier mache, woodworking using hand tools, found objects, recycled materials, fibers, digital drawing, sculpture, 2D and 3D design in any medium, and mixed media.** This course can be repeated for credit.

PR: Studio in Art

Credit: 1/2

Exam(s): Final

DIGITAL PHOTOGRAPHY

Do you love taking pictures? Do you dream of being a photographer? Digital Photography develops technical camera skills while increasing awareness of composition, visual elements, and the artistic eye. You will learn about the history of photography, how to create stunning images while finding confidence operating a DSLR camera in manual mode and utilize professional editing software. This course is a prerequisite for College Digital Photography

PR: None

Credit: 1/2

Exam(s): Final

YEARBOOK *NEW COURSE

In this course students will gain skills in journalism, page design, publishing techniques, editing and photography skills while producing a creative and innovative yearbook which records school memories and events. This course can be repeated for credit.

PR: Studio in Art

Credit: 1/2

Exam(s): Final

COLLEGE DIGITAL PHOTOGRAPHY (SCCC)

College Digital Photography focuses on increased editing skills and stylistic options to prepare a portfolio for advanced level study. This course is designed for students who are seriously interested in the practical experience of art photography. Students will experience a variety of advanced concepts, techniques, and approaches designed to help them demonstrate their abilities as well as their versatility with techniques, problem solving, and ideation. Students will work to build a portfolio within a concentration that investigates an idea of personal interest for each individual student. Students will be introduced to new photographers, digital artists, artists, and more sophisticated techniques as points of departure to create work that reflects that individual student's spirit and vision. Work is expected to be of high quality in thought, process, and product.

* SCCC fees are the responsibility of the student and his/her family.

PR: Digital Photography

Credit: 1/2

Exam(s): Final

MUSIC DEPARTMENT

GRADUATION REQUIREMENTS

Regents Diploma: One (1) Credit in Art or Music

Regents Diploma with Advanced Designation: One (1) Credit in Art or Music

PROJECTED COURSE SEQUENCE				
	9th Grade	10th Grade	11th Grade	12th Grade
Music Education	Band Chorus Piano	Band Chorus Piano II	Band Chorus Piano III Music Theory Music Technology	Band Chorus Piano IV Music Theory Guitar
Music Performance	Band Chorus Piano	Band Chorus Piano II	Band Chorus Piano III Music Theory Music Technology	Band Chorus Piano IV Music Theory Guitar
Music Theater	Band Chorus Piano	Band Chorus Piano II	Band Chorus Piano III Music Theory Music Technology	Band Chorus Piano IV Music Theory Guitar
Music Therapy	Band Chorus Piano	Band Chorus Piano II	Band Chorus Piano III Music Theory Music Technology	Band Chorus Piano IV Music Theory Guitar

HIGH SCHOOL BAND

This skill level-based course advances and refines instrumental music performance, potential, and appreciation as well as higher level thinking and aesthetic judgment. Attendance at all concerts and the Memorial Day Parade is required. Students are also required to attend scheduled, weekly lessons.

PR: Skill level demonstration and approval of instructor

Credit: 1/2

Exam(s): Final

HIGH SCHOOL CHORUS

This course focuses on learning vocal music of different musical styles and time periods using proper vocal technique. Emphasis is placed on learning to read music by using solfeggio (do, re, mi) and listening to and critiquing performances and rehearsals. Attendance at all concerts is required. Students are also required to attend scheduled, weekly lessons.

PR: Voice placement demonstration and approval of instructor

Credit: 1/2

Exam(s): Final

MUSIC THEORY *REINTRODUCED FOR 2021-2022

The course is geared toward students planning on a career in a musical field and/or who have a serious interest in music. The course is designed to prepare students for basic college entry-level theory exams.

PR: Fundamental knowledge of music; 11th – 12th grade.

Credit: 1/2

Exam(s): Final

PIANO I

This class is designed for those students who wish to learn to play the piano. Students will receive guidance and direction in solving problems related to playing the piano at a beginning level and will learn many of the different styles, skills, and techniques required to become a successful pianist.

PR: None

Credit: 1/2

Exam(s): Final

PIANO II

For those students who wish to continue their study of piano. Students will continue to receive guidance and direction related to playing the piano and will learn many of the different styles, skills, and techniques required to become a successful pianist.

PR: Piano I

Credit: 1/2

Exam(s): Final

PIANO III

For those students who wish to continue their study of piano. Students will continue to receive guidance and direction related to playing the piano and will learn many of the different styles, skills, and techniques required to become a successful pianist.

PR: Piano II

Credit: 1/2

Exam(s): Final

PIANO IV

For those students who wish to continue their study of piano. Students will continue to receive guidance and direction related to playing the piano and will learn many of the different styles, skills, and techniques required to become a successful pianist.

PR: Piano III

Credit: 1/2

Exam(s): Final

GUITAR

This class is designed for those students who wish to learn to play the guitar. This course is designed for students with no previous guitar experience. Students learn many of the different styles, skills and techniques required to become a successful guitarist.

PR: None

Credit: 1/2

Exam(s): Final

MUSIC TECHNOLOGY AND PRODUCTION *NEW COURSE

Music Technology is a course designed to give students an insight into the world of sound recording, audio production, and music creation. The course is designed to provide students with an understanding of music through listening, performing, and creating with a focus on using modern music-based technologies. Students will learn the art of audio recording, composing using electronic devices, editing music, and mixing sounds. The class will also utilize a variety of professional grade production programs to explore the art of sound and music creation. In addition, students will explore the different areas of the modern music industry where music technology is used most, such as podcast creation, commercial production, movie scoring and album mixing.

PR: Music Technology is open High School students in Grades 10-12 who have taken a music course in 9th grade, or by permission of instructor.

Credit: 1/2

Exam(s): Final

BUSINESS DEPARTMENT

CAREER & FINANCIAL MANAGEMENT

This course emphasizes career planning, career selection, career success, personal financial literacy and an understanding of business systems and economics. Areas of emphasis include basic economics, successful employment, getting the job, working conditions, career exploration, managing finances, credit budgeting, insurance and checking accounts. This helps to prepare students for entry into the working world.

PR: None

Credit: 1/2

Exam(s): Final and Wise Financial Literacy Test

BUSINESS MATH

This course covers the mathematics used in everyday business and accounting. Among the topics included are fractions and decimals, the use of algebraic equations, percents and their applications, sales and trade discounts, markup, payroll, checking accounts, simple and compound interest, discounting of notes, present value, taxes, and business statistics.

PR: None

Credit: 1

Exam(s): Final

FAMILY & CONSUMER SCIENCE DEPARTMENT

PROJECTED COURSE SEQUENCE				
	9th Grade	10th Grade	11th Grade	12th Grade
Hospitality	Entrepreneurship, Gourmet Baking, OR International Foods	Entrepreneurship, Gourmet Baking, OR International Foods	SC BOCES Career & Technical Education Program: Hospitality, Cosmetology, or Culinary Arts	SC BOCES Career & Technical Education Program: Hospitality, Cosmetology, or Culinary Arts
Culinary	Entrepreneurship, Gourmet Baking, OR International Foods	Entrepreneurship, Gourmet Baking, OR International Foods	SC BOCES Career & Technical Education Program: Culinary Arts	SC BOCES Career & Technical Education Program: Culinary Arts
Child Care or Public Safety	Gourmet Baking OR International Foods	Child Development, Psychology, AND/OR Sociology	SC BOCES Career & Technical Education Program: Early Childhood Education, Public Safety	SC BOCES Career & Technical Education Program: Early Childhood Education, Public Safety

GOURMET BAKING & COOKING TECHNIQUES

This course will offer the opportunity to explore more complicated and creative methods of baking and cooking, while reinforcing the basic techniques used in day-to-day food prep. We will expand and create recipes that please the palate and the eye. Students will explore the criteria that make a dish "gourmet" and share life experiences involving specialty and unusual foods they have tasted, experienced and enjoyed. All parts of the meal will be studied including appetizers, breads, cakes, cookies, pies, puddings and some main dishes and specialty desserts.

PR: None

Credit: 1/2

Exam(s): Final

INTERNATIONAL FOODS

This course begins with a brief study of foods related to different regions in the country and the influences of Native American tribes and food, immigration patterns, and regional influences. The course culminates in an exploration of foods from such countries as Italy, Germany, France, India, China, Japan, Ireland, Mexico, and the Caribbean. Students will participate in a culinary experience as they prepare various foods and sample various fare.

PR: None

Credit: 1/2

Exam(s): Final

CHILD DEVELOPMENT

Students taking this course will learn the basic concepts in child development. This is an excellent course to begin preparing for a career working with children.

PR: None

Credit: 1/2

Exam(s): Final

ENTREPRENEURSHIP & THE WELLNESS FOOD INDUSTRY: MANAGEMENT SKILL DEVELOPMENT

This course provides an opportunity for students to analyze themselves in relation to an entrepreneurial career, develop a business plan, and conduct an in-school business. As students learn business principles and teamwork, the entrepreneurial project will be developed. The students will create a business plan, create a healthy snack recipe, test and market test that recipe, design a package label and promotional campaign. A school TV marketing commercial will be produced that explains the benefits of the product. Student sales/profits data will be calculated and donated to a pre-decided cause.

PR: None

Credit: 1/2

Exam(s): Final

INTERIOR DESIGN

Students will follow a design from concept development through project proposal to design representation. Students will develop design plans that illustrate creative use of the elements and principles of design and that showcase effective application of architectural elements and systems. Students will prepare professional presentations to justify their design solutions relative to client needs. Students will be exposed to the many possible career opportunities in both residential and commercial interior design.

PR: None

Credit: 1/2

Exam(s): Final

INDEPENDENT COOKING FOR SUSTAINABILITY

This class will create an environment that will support exploration, preparation, and analysis of meals when being prepared for one or two. Various strategies and basic cooking and preparation techniques will be mastered to support nutritious and economical meal planning when living in a limited environment such as a dorm or small apartment or when living as a roommate. Each student will learn and master basic food preparation techniques as well as care for their individual equipment set. Food and equipment budgets for living independently will be created.

PR: 11th or 12th Grade

Credit: 1/2

Exam(s): Final

TECHNOLOGY DEPARTMENT

TECHNOLOGY courses will be offered on a rotating basis from year to year in order to provide a broader spectrum of skills and knowledge.

PROJECTED COURSE SEQUENCE				
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Engineering	Design & Drawing for Production	Principles of Engineering OR Digital Electronics AND Chemistry	Digital Electronics OR Principles of Engineering AND Chemistry	Any untaken PLTW Engineering courses AND Physics
Computer Science	Introduction to Computer Science OR Cybersecurity	Introduction to Computer Science OR Cybersecurity	Introduction to Computer Science, Cybersecurity AND/OR Innovative Design	Introduction to Computer Science, Cybersecurity AND/OR Innovative Design
Construction	Materials Processing	Carpentry AND/OR Home Improvement	SC BOCES Career & Technical Education Program: Construction Technology, Welding, or Natural Resources	SC BOCES Career & Technical Education Program: Construction Technology, Welding, or Natural Resources
Automotive			SC BOCES Career & Technical Education Program: Auto Body, Auto Technology, or Welding	SC BOCES Career & Technical Education Program: Auto Body, Auto Technology, or Welding
Drone Piloting	Drone Piloting	Drone Piloting	Astronomy & Aerospace Science AND SC BOCES Career & Technical Education Program: Commercial Drone Aviation	

HOME IMPROVEMENT

This course is for students interested in doing their own home maintenance and repair work. Students will learn the basic information and techniques necessary to use hand tools and various building materials required for routine repair and maintenance of a residential structure and its systems.

PR: None

Credit: 1/2

Exam(s): Final

MATERIALS PROCESSING

Students will learn various methods of wood processing and machine safety. In this class, students get to design and create projects from scratch using semi-raw materials (lumber) and turning materials into useable products. During the design process, students create multi-view drawings and parts lists then machine lumber to create their projects.

PR: None

Credit: 1/2

Exam(s): Final

CARPENTRY

This course acquaints students with the essential principles of cabinet-making. Topics include safety, use of hand tools, portable power tools, and basic machinery. Emphasis is placed on proper technique, safety, and proper tool use. Students are required to complete a series of projects designed to develop primary woodworking skills.

PR: Materials Processing

Credit: 1/2

Exam(s): Final

DRONE PILOTING FOR COMMERCIAL ENDEAVORS *NEW COURSE

Students in this course will gain a general overview of drones and learn how to safely fly drones without the aid of GPS. Students will be exposed to current commercial and public safety applications of drones, including aerial photography, agriculture, forestry, surveying, law enforcement, search and rescue, and others. This course will prepare students for the FAA Part 107 Commercial Drone Pilot Licensing exam.

PR: None

Credit: 1

Exam(s): Final

DESIGN & DRAWING FOR PRODUCTION (DDP)*

Students are introduced to the engineering design process, applying math, science, and engineering standards to identify and design solutions to a variety of real problems. They work both individually and in collaborative teams to develop and document design solutions using engineering notebooks and 3D modeling software. This course satisfies the NYS graduation requirement for the arts.

PR: None

Credit: 1

Exam(s): Final

DIGITAL ELECTRONICS*

This course in applied logic encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuit devices. Students are introduced to the digital circuits found in video gaming, watches, calculators, digital cameras, and other devices.

PR: 10th Grade

Credit: 1

Exam(s): Final

PRINCIPLES OF ENGINEERING*

This course helps students understand engineering technology. Exploring various technology systems and manufacturing processes helps students learn how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people. The course is a hands-on, laboratory experience that provides access to tools, machines, and materials for individual and small group projects.

PR: 9th Grade

Credit: 1

Exam(s): Final

INTRODUCTION TO COMPUTER SCIENCE (ICS)*

Designed to be the first computer science course for students who have never programmed before, Introduction to Computer Science is an optional starting point for the PLTW Computer Science program. Students work in teams to create apps for mobile devices using MIT App Inventor®. They explore the impact of computing in society and build skills in digital citizenship and cybersecurity. Beyond learning the fundamentals of programming, students build computational-thinking skills by applying computer science to collaboration tools, modeling and simulation, and data analysis. In addition, students transfer the understanding of programming gained in App Inventor to text-based programming in Python® and apply their knowledge to create algorithms for games of chance and strategy.

PR: None

Credit: 1

Exam(s): Final

CYBERSECURITY*

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

PR: 10th Grade

Credit: 1

Exam(s): Final

***Project Lead the Way (PLTW)**

Project Lead the Way is a Rochester Institute of Technology program with courses that, when combined with traditional mathematics and science courses, introduce students to the scope, and discipline of engineering and computer science prior to entering college. However, those not intent on pursuing further engineering, computer science, or related majors (architecture ex.) or formal education will benefit greatly from the knowledge and logical thought processes that result from taking some or all of the courses provided in curriculum.