Seton Catholic Central

70 Seminary Avenue
Binghamton, NY 13905
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2024-25
Course Description & Information Guide
Grades 7-12

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MISSION STATEMENT

The Catholic learning environment at Seton Catholic Central is inspired by our ever-present teacher, Jesus Christ. Our students are encouraged to develop a love of learning which will serve them throughout their lives. Our mission is to meet each student's needs — spiritual, academic, physical, social, and emotional — through a fiscally responsible program that recognizes the importance of stewardship in all its forms.

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Please note: All elective courses listed are tentative.
They are subject to sufficient enrollment and staffing.

Seton Catholic Central Graduation Requirements

Course	Regents Diploma	Advanced Regents Diploma
Theology+	4	4
English	4	4
Social Studies	4	4
Mathematics	3	3
Science	3	3
Health	.5	.5
Art/Music	1	1
LOTE	1	3*
Physical Education	2	2
Electives	3.5	1.5

+Transfer students are not required to make up Theology credits from previous grades
***One of the following must be completed: 3 credits in LOTE**

Regents Exam Requirements (Traditional Combination)
Pass with Score of 65 or Higher

Regents Diploma	Advanced Regents Diploma
Science Regents	2 Science Regents
Math Regents	3 Math Regents
Social Studies Regents	Global History and Geography Regents U.S. History Regents
English Regents	English Regents
Pathway Assessment (Additional Math Regents, Science Regents, or Social Studies Regents)	LOTE Checkpoint B Comprehensive Exam
Total of 5 Exams	Total of 9 Regents

Special Endorsements

Honors Designation: Students may qualify for Honors Designation on either the Regents or Advanced Regents Diplomas if they attain an average of 90% or higher on all required Regents exams.

Math Mastery: Students will receive a Math Mastery Designation on their high school diploma if they score 85% or higher on all three Mathematics Regents exams.

Science Mastery: students will receive a Science Mastery Designation on their high school diploma if they score 85% or higher on three Science Regents exams.

NCAA Division I & II Eligibility Standards

If you plan to enroll in any Division I or Division II College or University as a student athlete, please visit https://www.ncaa.org/student-athletes/future, read this information carefully, and consult with your school counselor to verify your coursework. It is essential that you discuss the eligibility standards with your coach and school counselor. You can also contact the NCAA National Office at (877) 262-1492.

Definitions

Advanced Placement (AP) - A rigorous high school course taught at the college-level. Colleges and universities may grant placement and course credit to students who obtain high scores on the examination. Students are responsible for ordering and paying for the examination. Examination ordering will take place in the fall. Additional information can be found at https://apstudents.collegeboard.org/

Elective - An elective is a subject which you may choose to take because you are particularly interested in its content.

Fast Forward - SUNY Broome courses taught at the high school. Students can earn college credit while simultaneously earning high school credit. Additional information can be found at https://www2.sunybroome.edu/ffec/

Prerequisite - A prerequisite subject is one that is required before a more advanced course can be taken in the same field. (For example, Spanish 1 is a prerequisite to Spanish 2.) Prerequisites are shown as part of the course description for most courses.

Regents - A Regents program follows the course of study developed by the New York State Education Department. Certain final examinations are statewide and are prepared by the State Education Department for administration at prescribed times. Examination schedules are available at https://www.nysed.gov/state-assessment/regents-examination-schedules

Sequence - A sequence consists of 5 units in one field of knowledge. Seton offers sequences in Fine Arts and Visual Arts. Students pursing a sequence in place of LOTE credits for an Advanced Regents Diploma must consult with their school counselor to ensure proper course placement.

Unit - One unit of credit is earned for a passing grade in each subject taken for a full year. If a subject is taken for only half the school year, one-half unit is earned. A unit of study means at least 180 minutes of instruction per week throughout the school year, or the equivalent.

BUSINESS

The Business program aims to prepare students to build a knowledge base of business skills and attitudes and apply those skills and attitudes in a constantly changing world in order to be competent, productive, and successful employees and citizens.

INTRODUCTION TO BUSINESS

1 Unit

Introduction to Business is an expansive course meant to introduce students to the wider field of business. Most people immediately think of entrepreneurship and finance as the only functions of business, however there is much more going on behind the scenes that actually make the business run. Alongside finance and entrepreneurship, this class will discuss operations management, marketing, management information systems, and business law. Mirroring the general structure of Binghamton University's School of Management, the purpose of this course is to give students a well rounded understanding of all the possibilities they truly have when choosing to enter the world of business.

Grade(s): 9-12

Prerequisites: none

PRODUCT DEVELOPMENT

1 Unit

An expansion of Intro to Business, this course will guide the student step by step in creating and manufacturing a product. From the prototype stage to final distribution, the students will learn what it takes to turn an idea into a business. More focused on entrepreneurship, by the end of the year the students will be able to run through a business plan fit for Shark Tank.

Grade(s): 9-12

Prerequisites: Introduction to Business or approval of the instructor

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CAREER & TECHNICAL EDUCATION

Career & Technical Education programs provide students with opportunities to gain hands-on work experience. The programs are ideal for students who find it difficult to work in the typical classroom setting. Students interested in these programs should meet with their school counselor. Program deadlines vary and enrollment is limited.

BOCES JUNIOR LEVEL

3 Units

Any student interested in a Career and Technical Education program with the Board of Cooperative Educational Services (BOCES.) should speak directly with his/her school counselor for information and direction. The program is designed for the student interested in courses developed in light of anticipated opportunities for employment or to get a step ahead in a 2 or 4 year college. A student in this program takes required courses at Seton Catholic Central for half the day and career and technical education courses at BOCES during the other half of the school day. Students interested in this program should consult with their school counselor.

Grade(s): 11

BOCES SENIOR LEVEL

3 Units

Any student interested in a Career and Technical Education program with the Board of Cooperative Educational Services (BOCES.) should speak directly with his/her school counselor for information and direction. The program is designed for the student interested in courses developed in light of anticipated opportunities for employment or to get a step ahead in a 2 or 4 year college. A student in this program takes required courses at Seton Catholic Central for half the day and career and technical education courses at BOCES during the other half of the school day. Students interested in this program should consult with their school counselor.

Grade(s): 12

Prerequisites: None

YOUTH APPRENTICESHIP PROGRAM: JUNIOR LEVEL

2 Units

Youth Apprenticeship is designed to offer high school juniors and seniors the opportunity to see direct connections between academies and employment while working in their occupational field of interest. Students leave their home school for part of the day and work between 10 and 20 hours per week. Paid positions are offered in four career areas: Engineering Technologies, Business/Information Systems, Health Care, and Human and Public Service. Interested students must complete an application package and meet selection criteria. Participating employers interview and hire students. Students receive two credits each year for the work experience, which includes taking two required online courses. Students interested in this program should consult with their school counselor.

Grade(s): 11

Prerequisites: None. An application process is required.

YOUTH APPRENTICESHIP PROGRAM: SENIOR LEVEL

3 Units

Youth Apprenticeship is designed to offer high school juniors and seniors the opportunity to see direct connections between academies and employment while working in their occupational field of interest. Students leave their home school for part of the day and work between 10 and 20 hours per week. Paid positions are offered in four career areas: Engineering Technologies, Business/Information Systems, Health Care, and Human and Public Service. Interested students must complete an application package and meet selection criteria. Participating employers interview and hire students. Students receive two credits each year for the work experience, which includes taking two required online courses, and one credit for successful completion and formal presentation of a senior project. Students interested in this program should consult with their school counselor.

Grade(s): 11, 12

Prerequisites: None. An application process is required.

NEW VISIONS ACADEMIES

4 Units

New Visions is an academically rigorous program for college-bound high school seniors who are interested in a future career in business, education, engineering, health, or law and government. Students in the program spend each morning taking classes and working side-by-side with professionals, observing and participating in real life experiences and internships. Students have the option of taking their Social Studies 12 credit via Syracuse University Project Advance. In addition, all students participate in Honors English 12, which is taught seminar style and focuses on college preparedness. The application process includes an essay and interview. Students who complete this program earn four high school credits. Students interested in this program should consult with their school counselor.

Grade(s): 12

Prerequisite: minimum GPA of a 90%. An application process is required.

COMPUTER SCIENCE

The Computer Science Department is designed to educate the student in the field of computers, their history and uses, the availability of software, programming techniques, and the basic concepts of the major programming languages

GRADE 7 COMPUTER SCIENCE

This course is designed to educate students in the safe and educational use of technology. Topics include digital literacy, file management, keyboarding, Google Suite, block programming and project management. Students will develop computational thinking, logical reasoning, and problem solving. Students will practice responsible use of technology. The technology sequence serves as an introduction to computer science and will prepare students who wish to continue with the computer science and engineering courses available at the high school level.
Grade(s): 7

PLTW GRADE 8 COMPUTER SCIENCE

This course is designed to introduce the students to the Project Lead The Way (PLTW) program and Engineering through the course Automation & Robotics. Students are given the opportunity to combine mechanisms with input and output devices to automate the mechanisms. Construction and programming skills are layered, and projects and the problem provide students the opportunity to connect their learning throughout the lessons in the unit. Students take on the role of interns, and work in teams to identify design requirements and create prototypes to meet the needs of clients. They also explore different aspects of automation and robotics, and experience how solving real-life problems involves the teamwork of mechanical engineers, software developers, and electrical engineers.
Grade(s): 8

COMPUTER PROGRAMMING 1 *(offered on a rotating basis, based on student enrollment)*

1 Unit
This course is an introduction to the theory and practice of computer programming. Students will learn the fundamental concepts and terminology of software application development and develop skills in designing and writing simple computer programs. Topics will include, but are not limited to, computational thinking, flowcharts, algorithms and pseudocode, variables, operators, conditional and looping statements, and exposure to multiple programming languages with a focus on block-based programming. Students will gain a basic understanding of introductory computer science topics such as number systems, recursive functions, and Boolean algebra. This course will require students to create simple algorithms which manipulate data, make calculations, and perform simple operations using loops and functions. . **** Summer work will be required. ****
This course may fulfill a Mathematics Credit or an Elective Credit.
Grade(s): 9-12

AP COMPUTER PROGRAMMING 1 *(not offered in 2024-25)*

1 Unit
All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.*
The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both

object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. This course will teach students how to write logically structured, well-documented computer programs. This course prepares students for the AP Exam in Computer Science A. . **** Summer work will be required. ****
This course may fulfill a Mathematics Credit or an Elective Credit.
Grade(s): 10-12
Prerequisites: 90 or above in Computer Programming 1, Principles of Engineering, or AP Computer Science Principles and teacher recommendation.

AP COMPUTER SCIENCE PRINCIPLES *(not offered in 2024-25)*

1 Unit
All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.*
AP Computer Science Principles introduces students to the breadth of the field of computer science. In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. Projects and problems include app development, visualization of data, cybersecurity, and simulation. Students will develop computational thinking by incorporating multiple platforms and languages. This course prepares students for the AP Exam in Computer Science Principles. **** Summer work will be required. ****
This course may fulfill a Mathematics Credit or an Elective Credit.
Grade(s): 10-12
Prerequisites: Successful completion of Introduction to Programming, Principles of Engineering, or Digital Electronics and teacher recommendation.

ENGLISH

It is the goal of the English Department to help students develop into critical thinkers, eloquent speakers, and analytic writers who are well equipped to participate in the community. Our hope and desire is to nurture a love of both literature and discourse in our students. Our intent is to foster creative thinking and expression and to create a community of articulate readers, writers, and speakers. English vocabulary and grammar, research techniques, technological resources, mass media, and public speaking will be part of required coursework. The canon of literature studies will be a combination of "classics" and carefully chosen contemporary works. In preparation for college and the business world, students will read difficult texts, understand key disciplinary concepts, and develop strategies for responding critically to new information.

GRADE 7 ENGLISH LANGUAGE ARTS

This course is designed to build on the skills students have been developing in 5th and 6th Grade, and emphasize all aspects of the New York State Standards for the teaching of English Language Arts. Vocabulary development is an important part of this course. Development of expository, descriptive, narrative, and persuasive writing skills is included, along with a focus on the writing process (pre-writing, drafting, editing, etc.). Students will combine inference skills with relevant, text-based details to create valid claims. Students follow the CEA formula—state a

Claim, support the claim with Evidence, and support the evidence with Analysis. Technological and media literacy will be developed through the use of Chromebooks. Assessment is frequent and varied in type, including both objective and essay tests, projects, homework, and class participation. Students will improve reading, writing, listening, and speaking skills in preparation for college and career readiness. This course will help them to develop successful study skills and will increase their exposure to and awareness of available literature for recreation, study, and enrichment.
Grade(s): 7

GRADE 8 ENGLISH LANGUAGE ARTS

This course is similar in structure to English 7. It will build on the skills students have been developing and hone those skills in preparation for what they will encounter as freshmen in high school. This course emphasizes all aspects of the New York State Standards for the teaching of English Language Arts, in preparation for the NYS ELA Exam. Included in the curriculum are reading, writing, speaking, and thinking within the various literary genres. Practice of expository, descriptive, narrative, and persuasive writing skills is included, with a focus on the writing process (pre-writing, drafting, editing, etc.). Students are asked to more intensely analyze what they have read in their writing and will combine inference skills with relevant, text-based details to create valid claims. Students follow the CEA formula - state a Claim, support the claim with Evidence, and support the evidence with Analysis. Students will learn to make inferences then support their claims using evidence from supporting texts. Technological and media literacy will be developed through the use of Chromebooks and projects. Assessment is frequent and varied in type, including both objective and essay tests, projects, homework, and class participation. Students will improve reading writing, listening, and speaking skills in preparation for high school, as well as for college and career readiness. This course will help them to develop successful study skills and will increase their exposure to and awareness of available literature for recreation, study, and enrichment. There is a strong focus on preparing the students for the rigors of High School English.
Grade(s): 8

ENGLISH 9

1 Unit

In English 9, students will embark on a dynamic journey through literature and language, guided by the rigorous standards set forth in New York State's *Next Generation English Language Arts (ELA) Standards*. This course is designed to foster critical thinking, effective communication, and a deep appreciation for diverse literary genres.

In this foundational year, students will engage in a comprehensive study of literature, including classic and contemporary texts that reflect a wide range of human experiences. Through close reading, analysis, and interpretation, students will develop their ability to comprehend complex texts, recognize literary devices, and articulate their insights with clarity and precision.

By the end of English 9, students will have developed essential skills that serve as a foundation for future academic and professional success.
Grade(s): 9

ENGLISH 10

1 Unit

English 10 is a dynamic course that aligns with the New York State's Next Generation English Language Arts (ELA) Standards. In this pivotal year, students will engage in an exploration of literature, language, and critical inquiry, deepening their understanding of the human experience and honing the skills necessary for success in a rapidly changing world. This course is designed to prepare students not only for academic success but also to become thoughtful, engaged, and empathetic contributors to a global society.

By the end of English 10, students will have developed advanced literacy skills, critical thinking abilities, and a heightened appreciation for the power of language, emerging as confident communicators and critical thinkers ready to navigate the challenges of the 21st century.
Grade(s): 10
Prerequisite: Successful completion of English 9

ENGLISH 10 HONORS

1 Unit
English 10 Honors is an intellectually rigorous course that aligns with the New York State's Next Generation English Language Arts (ELA) Standards. This honors-level class challenges students to explore literature and language with depth and complexity, fostering advanced critical thinking, precise communication, and a heightened appreciation for the power of words.

By the end of English 10 Honors, students will have cultivated advanced literacy skills, critical thinking abilities, and a profound understanding of literature and language. This course is designed to prepare students for the challenges of advanced coursework in their subsequent high school years and beyond.
Grade(s): 10
Prerequisites: Students who wish to be considered for this course should have a strong record of performance in English 9. All interested students must write an application essay to be considered for this course.

ENGLISH 11R

1 Unit
English 11 is designed to align seamlessly with the New York State's Next Generation English Language Arts (ELA) Standards. This class marks a significant exploration of American literature and critical inquiry, inviting students to delve into the complex narratives that have shaped the cultural fabric of the United States. Through rigorous analysis and inquiry, students will refine their critical thinking, research, and communication skills.

By the end of English 11, students will have honed their critical thinking skills, deepened their appreciation for American literature, and demonstrated proficiency in advanced literacy and communication. This course is designed to prepare students for the intellectual challenges of their senior year and beyond.
Grade(s): 11
Prerequisite: Successful completion of English 10

AP ENGLISH 11: LANGUAGE & COMPOSITION

1 Unit
All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.*
This college-level course will explore writing from a variety of periods and a diverse range of authors. Focus will be on preparation for the Advanced Placement Language and Composition Exam through study, interpretation, discussion and composition of mainly nonfiction narrative, descriptive, argumentative and expository works. As the course is organized according to the requirements and guidelines of the AP English and Language Course Description, students should expect and be comfortable with a challenging workload that includes substantial reading and writing assignments, frequent participation in class discussions surrounding a multitude of issues, current events, and high-level texts, and high performance expectations. Students will master analytic and argumentative writing, develop discriminating rhetorical analysis skills for literary study, and develop a collegiate vocabulary and writer's voice. This course will prepare students to take the AP English Language and Composition

Exam and the New York State Regents Examination in English Language Arts. **** Summer work is required. ****
Grade(s): 11
Prerequisites: Grade 11, 94% average in English 10 or English 10H, 85% on English 10 or 10H final exam, and teacher recommendation. Final admission into the AP program is at the discretion of the English Department. A summer assignment is required and admission into the course is contingent upon the successful completion of this assignment.

ENGLISH 12 – RESEARCH (½ year)

.5 Unit
This half-year course is designed to introduce 12th-grade students to the fundamental principles and techniques of research methodology across various academic disciplines. Through a combination of theoretical exploration and practical application, students will develop essential skills necessary for conducting research in both academic and real-world contexts. Assessment will be based on class participation, assignments, quizzes, a research proposal, and a final research project presentation.

This course provides a solid foundation for students interested in pursuing further studies in various academic disciplines or professions that require research skills, such as social sciences, natural sciences, humanities, and business.
Grade(s): 12
Prerequisite: Successful completion of English 11R or AP Language and Composition

ENGLISH 12 – Public Speaking (½ year)

.5 Unit
This half-year course is designed to equip 12th-grade students with the essential skills and confidence needed to become effective public speakers. Through a combination of theory, practice, and feedback, students will develop their abilities to communicate ideas persuasively, engage audiences, and deliver impactful speeches in various settings.

Throughout the course, students will have ample opportunities to practice their speaking skills through individual speeches, group presentations, debates, and impromptu speaking exercises. They will receive constructive feedback from peers and the instructor to help them improve their performance. Assessment will be based on speech delivery, speech content, participation in class activities, peer evaluations, and self-reflections.

By the end of the course, students will have developed the confidence, poise, and competence to speak effectively in a variety of contexts, whether it be in academic settings, professional environments, or personal situations.
Grade(s): 12
Prerequisite: Successful completion of English 11R or AP Language and Composition

AP ENGLISH 12: LITERATURE & COMPOSITION

1 Unit
All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.*
This college-level course will facilitate reading and understanding a broad and challenging range of predominantly fiction literature. Through close reading and frequent writing, students are expected to heighten their critical reading and analytical skills and communicate effectively in both writing and speech. Compositions will include expository, analytical, personal and argumentative pieces. The course will prepare students to take the AP English Literature and Composition Exam. Students will also write a 10 page research paper with a focus on in-text documentation and MLA citation. **** Summer work will be required. ****

Grade(s): 12
Prerequisites: Two of: 90% on NYS Comprehensive English Regents Exam, or 90% in AP English 11: Language and Composition, or 94% average in English 11, and teacher recommendation. Final admission into the AP program is at the discretion of the English Department.

POETRY OF ROCK AND ROLL– ELVIS TO EILISH

.5 Unit
This course examines the importance of rock lyrics as a reflection of our culture. The course begins with the birth of rock & roll. We will then study the musical and social trends of the 1960s, including the influence of the British Invasion, which signaled the arrival of rock's second generation, the rock explosion and social upheaval of the late 1960s, and the changes in Rock & Roll music during the seventies, eighties, and nineties. The course will culminate in an exploration of today's current musical trends and icons including rap/hip hop. Topics include, but are not limited to: lyrics as an extension of poetry, demonstrating elements such as rhythm, cadence, syllable counts, and rhyme schemes; lyrics as a vehicle for social reflection and change; rock and roll as both culture and counterculture, and an exploration of rock artists from the 1950s to today.
Grade(s): 12

LANGUAGES OTHER THAN ENGLISH

The general objectives of the SCC Languages Other Than English department are to teach students (1) to communicate in a language other than English, and (2) to appreciate and understand the cultural differences of people who communicate in languages other than English. The department's primary goal is to encourage students to continue their language study throughout their academic careers. Since many colleges and universities require some LOTE experience, students are well prepared to continue at a level that will benefit them both personally and professionally. 7th grade students will rotate quarterly through all four Languages Other Than English.

GRADE 7 LATIN *(not offered in 2024-2025)*

This full–year course offers an introduction to the fundamentals of reading and understanding Latin, the language of the ancient Romans. It covers the beginnings of Latin pronunciation, Latin vocabulary in relation to English word derivatives, the principles of a grammar-based approach to reading comprehension, and an introduction to Greco-Roman culture and mythology. Students will especially gain an understanding of the morphological aspects of translation and achieve a mastery of all the essential building blocks for the successful completion of Latin I and the LOTE Checkpoint A exam the following year.
Grade(s): 7

LATIN 1 *(not offered in 2024-2025)*

1 Unit
This full-year course, open to students of any grade level, introduces the fundamental principles of the language and culture of the ancient Romans. In line with current Regents and AP standards, it employs a classical and grammatical approach to the language. Students will primarily develop a sense of translation through the study of Latin morphology and how it compares to English grammar, as well as gain some exposure to Greco-Roman culture, history, and mythology. Additional elements include an emphasis English vocabulary building and word derivatives, legal and medical terminology, and ecclesiastical adaptations of Latin. At the completion of this course,

students will take the Checkpoint A Exam. All students must pass BOTH the course and the Checkpoint A Exam to receive credit for this course.
Grade(s): 8-12

LATIN 2

1 Unit
This course is a continuity of the practical and theoretical skills developed in Latin 1. It includes more extensive studies of Greco-Roman culture, mythology, and history, and it develops a more advanced and nuanced understanding of grammar-based translation. Students will pursue a more sophisticated development of vocabulary, grammar, and syntax in order to improve their reading comprehension skills in both English and Latin. This course continues its emphasis on various aspects of the classical era, but it also transitions into an exploration of ecclesiastical language, history, and culture. The course work culminates in a final Regents-style final exam in June. It directly leads to the successful completion of the Regents examination at the end of Latin 3 and the potential completion of the AP exam.
Grade(s): 9-12
Prerequisites: Successful completion of Latin 1

LATIN 3

1 Unit
This course completes all preliminary aspects of reading Latin prose and continues to develop previous studies of the Greco-Roman and ecclesiastical world. Primary emphasis is given to more advanced grammatical structures in relation to reading comprehension, as this course transitions from adapted passages to simple but unabridged classical texts with appropriate historical and literary context. Students will prepare for a thorough Regents-style examination at the end of the year, focusing on all cumulative aspects of previous years. Students must pass both the course and the Checkpoint B final exam with a minimum of 65% to complete the Languages Other Than English requirement for the NYS Advanced Regents Diploma. Higher-level mastery will allow for permission to enroll in Latin 4 or AP Latin.
Grade(s): 10-12
Prerequisites: Successful completion of Latin 2

LATIN 4

1 Unit
The primary purpose of this course is to more fully develop the skills necessary for success on the AP exam in a "bridge year" between Latin 3 and AP Latin. It reviews previously learned material in Latin 1-3 and transitions to a more mature style of work, alike in methodology and content to an intermediate level college course. The focus will be to translate portions of texts about Roman history and mythology that incorporate vocabulary and grammatical structures from Vergil and Caesar (the authors studied in AP Latin), while allowing ample time for students to re-learn and solidify concepts based on individual need. This course also includes an introduction to various other college-level Latin skills, such as the scansion of poetry and analysis of specific literary devices. Completion of this course is not required but highly encouraged before enrolling in AP Latin.
Grade(s): 11, 12
Prerequisites: Successful completion of Latin 3 and teacher recommendation.

AP LATIN

1 Unit
All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.*
This college-level course combines an intensive study of two great works of Latin literature: Vergil's Aeneid and

Caesar's Gallic Wars. Students will read extensive selections from both works in English to supplement the core focus on translating both authors. The course covers seven analytic themes: literary genre, Roman values, war and empire, leadership, views of non-Romans, history and memory, human beings, and the gods. In addition, students will study specific rhetorical techniques, poetic devices, and literary styles employed by each author, dovetailing with skills developed in higher-level English classes. Summer review assignments are mandatory for students who have not completed Latin 4. This course prepares students to take the AP exam in Latin and culminates in a final project.
**** Summer work will be required. ****
Grade(s): 11, 12
Prerequisites: Successful completion of Latin 3 and teacher recommendation. Completion of Latin 4 is highly recommended.

GRADE 7 SPANISH

Grade 7 Spanish is a one-quarter introductory course to the language. The focus of the course is to introduce middle school students to the basics of Hispanic culture as well as basic Spanish vocabulary. At the completion of this short course, student will know more about the culture of different Spanish-speaking countries, including traditions and customs. Students will also become familiar with some beginning Spanish vocabulary and grammar that will be useful when they begin Spanish 1.
Grade(s): 7

SPANISH 1

1 Unit
Spanish 1 integrates all the language skills, including speaking, reading, writing and listening to achieve basic proficiency in the Spanish Language. The curriculum for this course follows the New York State Regents mandate for Checkpoint A of the Languages Other Than English curriculum. This course introduces the student to the basics of the Spanish language and culture. The primary goal of this course is communication at a proficient level in Spanish. Students will study the most elementary concepts of grammar, reading, speaking, listening, and culture, focusing on activities and routines used in daily life at school and home. Students will also develop and enhance cross-cultural skills and understanding of the Hispanic culture, particularly through geography, history, music, art and food. At the completion of this course, students will take the Checkpoint A Exam. All 8th Grade students must pass BOTH the course and the Checkpoint A Exam to receive credit for this course.
Grade(s): 8-12

SPANISH 2

1 Unit
This course is the second year of the New York State three-year sequence. While the vocabulary topic areas are reintroduced with greater detail, the major focus of this level is grammar. Key concepts include the simple and imperfect past tenses and the use of pronouns. The primary goal is communication and thus students will be expected to constantly practice their speaking, listening comprehension, reading and writing with realistic use of the language. This course will expand students' exploration of cultural differences through learning about traditions, music, geography and food. The final examination is a school examination.
Grade(s): 9-12
Prerequisites: Successful completion of Spanish 1

SPANISH 3R

1 Unit
This is the third and final year required for a three-unit sequence in Languages Other Than English. Students are expected to demonstrate mastery of expanded vocabulary topics. They are expected to be able to express themselves orally with an intermediate degree of fluency in the Regents topic areas. The course will focus on oral

expression, listening comprehension, reading comprehension and written expression as well the strengthening of grammar structures to support language development. In order to build fluency, this course will be taught primarily in Spanish with English used for some explanation or clarification. Students will be exposed to genuine target language materials so as to enhance their reading and listening comprehension and appreciation of the culture and customs of the target language. At the completion of this course, students will take a Checkpoint B exam. Students must pass both the course and the exam with a minimum of 65% to complete the Languages Other Than English requirement for the NYS Advanced Regents Diploma.
Grade(s): 10-12
Prerequisites: Successful completion of BOTH level 2 course work and the level 2 final exam with at least 65%

SPANISH 4

1 Unit
Spanish 4 is an advanced conversation course for highly motivated students. Although some grammar from Spanish 3 will be reviewed, the focus will be given to extending students' knowledge into Hispanic culture and building communicative fluency. The class will be mostly conducted in Spanish and social topics will be investigated and discussed as well as some Spanish and Latin American literature. This course will increase students' abilities to speak, read, write, and understand the spoken and written target language for both professional and academic purposes. Students are expected to study grammar and vocabulary regularly. In addition, history, geography, art, culture, customs and traditions are explored through literature, videos, and music.
Grade(s): 11-12
Prerequisites: Successful completion of Spanish 3 with a course grade of at least 85 and teacher recommendation

GRADE 7 AMERICAN SIGN LANGUAGE

Grade 7 American Sign Language is a year-long course that introduces the curriculum for the high school course American Sign Language 1. It is aligned with the New York State mandate for Checkpoint A of the Regents Languages Other Than English curriculum. This course presents the basics of American Sign Language and Deaf culture to the students. During this course, students will begin to be able to carry on simple voice-off conversations and will learn about Deaf culture, Deaf community and Deaf history.
Grade(s): 7

AMERICAN SIGN LANGUAGE 1

1 Unit
American Sign Language is a language used by Deaf people and the Deaf communities in America and Canada as well as other countries. It is a language composed of hand shapes, movements, facial expressions, eye contact and overall body language. In our ASL course we will be discussing the Deaf culture and Deaf history, as well as learning to communicate using sign language. The main content of signing includes introductions, exchanging personal information, telling about your surroundings, where you live, your family, and activities in which you participate. Upon completion of this course, students will be able to carry on substantial voice-off conversations. 8th Grade students must pass both the course and the Checkpoint A exam to receive credit for this course.
Grade(s): 8-12

AMERICAN SIGN LANGUAGE 2

1 Unit
American Sign Language 2 is a continuation of ASL 1 but more in depth. Where ASL 1 was more voice on, ASL 2 will have more voice off and signing project opportunities. Main topics which will be covered include school, sports, activities, daily routines and describing people and things. ASL 2 will focus not only on vocabulary

acquisition but fluency as well. Students will continue to gain knowledge and understanding of Deaf culture, Deaf community and Deaf history.
Grade(s): 9-12
Prerequisite: Successful completion of American Sign Language 1

AMERICAN SIGN LANGUAGE 3

1 Unit
This course will be a continuation of ASL 2 but more in depth. The majority of this course will be voice off. Topics that will be discussed include: home and community, making plans, interpreting, reading various signing styles and types, flow and fluency. Students will increase their understanding of Deaf culture, history, and Deaf education. Students will gain an understanding of interpreter ethics as well as basic interpreting skills. They will engage in longer conversations and tell stories in ASL. At the completion of this course, students will take the NYS Regents Exam. Students must pass both the course and the exam with a minimum of 65% to complete the Languages Other Than English requirement for the NYS Advanced Regents Diploma.
Grade(s): 10-12
Prerequisite: Successful completion of American Sign Language 2

MATHEMATICS

The Mathematics Department strives to encourage the development of the student's ability to organize and reason logically. The program promotes math skills and math in everyday life, the development of marketable skills, and the use of graphing calculators. The math courses encourage abstract thinking, critical thinking, reasoning and inquiry. The integration of books, charts and graphs are used to promote department objectives in the mastering of logic, algebraic, geometric and trigonometric skills and conceptual mathematics. The Regents courses will make all the changes necessary to conform to the revised New York State curriculum standards.

Note: Students are required to use Texas Instruments 84-Plus graphing calculators in ALL Regents level Math courses.

GRADE 7 MATHEMATICS

Students will apply skills learned in arithmetic to larger number groups as well as to real-life problems in the areas of probability, percentages, statistics, algebra, geometry and graphing in the coordinate plane. Students will develop knowledge of number sense and operations, understand and use basic knowledge of algebraic expressions and geometric relationships, and develop tools to apply mathematics to real-life scenarios. This course follows the New York State Standards.
Grade(s): 7

GRADE 7 ADVANCED MATHEMATICS

This course combines 7th and 8th grade mathematics curriculum. Students will apply skills in arithmetic to real-life problems. Students will also develop further knowledge of statistics and geometry. This course is designed to prepare students for advancement into Algebra I.
Grade(s): 7
Prerequisites: Above average math ability based on teacher recommendation and 5th & 6th Grade NYS

math assessment scores of 3 or greater, and take a placement exam before school starts. Scores will be reviewed in the summer to verify eligibility for this course and progress will be reviewed after each quarter throughout the year for continued placement.

GRADE 8 MATHEMATICS

Students will continue to apply skills learned in arithmetic to problems from the real world, especially in the areas of statistics and geometry. Students will develop such skills as finding the area of plane figures, determining the surface area of geometric solids and calculating square roots. This course follows the New York State Standards.
Grade(s): 8

ALGEBRA 1, PART 1

1 Unit
This is the first year of a two-year course leading to a Regents exam in June of the second year (Algebra 1 part 2). This course, followed by part 2 of the Integrated Algebra sequence, covers all of the same topics as the full year course. Because the content is spread out over 2 years, the pace of the course can allow more time for practice and mastery. Topics include Real Numbers, Polynomials, Linear Equations and Inequalities, Graphing, Factoring, and mastering the use of the graphing calculator. Students will take a final exam at the end of this course. Algebra 1 meets the New York Education Next Generation Standards.
Grade(s): 9
Prerequisite: Recommendation of Math Department and Grade 8 final Math average of 70 or below.

ALGEBRA 1, PART 2

1 Unit
This is the second year of a two-year course leading to a Regents Examination in June. This course, preceded by part 1 of the Integrated Algebra sequence, covers all of the same topics as the full year course. Because the content is spread out over 2 years, the pace of the course can include Equations, Statistics and Regression, systems of equations and inequalities, exponents, roots and irrational numbers. Students WILL take a NYS Regents Exam at the end of this course in June. Algebra 1 meets the New York Education Next Generation Standards.
Grade(s): 10
Prerequisite: Successful completion of Algebra 1, part 1.

ALGEBRA I R

1 Unit
Algebra 1 R is the first course in the three-course New York State Math Regents sequence. This course contains four conceptual categories: Number & Quantity, Algebra, Functions, and Statistics & Probability. Students will learn to see structure in expressions, perform arithmetic on polynomials and rational numbers, analyze, build, and interpret linear/exponential/quadratic functions, create/build equations and inequalities, and interpret categorical and quantitative data. Students are moving from concrete computational focused math involving numbers to the abstract world of mathematics involving variables and relationships. Students will develop proficiency in basic algebraic and problem-solving skills and will demonstrate competence in the use of the graphing calculator. This course culminates with the Algebra I Regents Exam. Algebra 1 meets the New York Education Next Generation Standards.
Grade(s): 8-10
Prerequisite: Average/above average math ability based on teacher recommendation. Please note for 8th grade students: completion of Grade 7 Advanced Math does not guarantee recommendation for Algebra. Students must demonstrate mastery, 90 average or above, of the Grade 7 Advanced Math curriculum.

GEOMETRY

1 Unit

Geometry is the second course in the three-course New York State Math Regents sequence. This course includes an in-depth analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts and real-world problem situations. Topics include congruence and similarity, right triangles, trigonometry, circles and geometric properties, measurements and dimension. Emphasis is placed on developing critical thinking skills as they relate to logical reasoning and argument. The course culminates with the Geometry Regents Examination. Beginning in the 2024-25 school year, Geometry will meet the New York Education Next Generation Standards.

Grade(s): 9-11

Prerequisites: Successful completion of Algebra 1 or Algebra 1 Part 2.

ALGEBRA 2 R

1 Unit

Algebra 2 R is the capstone course for the three units of credit and Regents exams required for an Advanced Regents diploma. This course is a continuation and extension of Algebra 1 and Geometry. Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. All students will take the Algebra 2 Regents exam in June. Successful passing of the New York State Algebra 2 Regents exam satisfies, in part, the requirement of passing 3 Math Regents exams for an Advanced Regents diploma.

Grade(s): 10-11; 12 with special recommendation.

Prerequisite: Successful completion of Geometry.

PROJECT-BASED STATISTICS *(offered on a rotating basis, based on student enrollment)*

1 Unit

This course provides a project-based approach to introductory statistics with an emphasis on using real-world data and statistical literacy. Topics include descriptive statistics, correlation and regression, basic probability, discrete and continuous probability distributions, confidence intervals and hypothesis testing. Upon completion, students should be able to use appropriate technology to describe important characteristics of a data set, draw inferences about a population from sample data, and interpret and communicate results.

Grade(s): 11-12

INTERMEDIATE ALGEBRA *(offered on a rotating basis, based on student enrollment)*

1 Unit

This course is a review of basic algebra: solving equations and inequalities; working with polynomials; graphing (including linear functions, inequalities, quadratic functions, and second degree functions such as the circle and parabola); working with irrational numbers, radicals and complex numbers. This is a non-Regents course and culminates in a final exam.

Grade(s): 11, 12

Prerequisites: Successful completion of Algebra 1, Parts 1 and 2 and Geometry.

FOUNDATIONS OF COLLEGE MATH *(offered on a rotating basis, based on student enrollment)*

1 Unit

This course is designed for high school seniors to ensure that students have the skills necessary to be successful in a college-level math course. Topics include: math modeling using linear, quadratic, exponential functions; number sense without a calculator; data analysis; working with polynomial and rational expressions and equations; statistics;

right triangle trigonometry; area and volume; exploring compound interest. The course also includes the following student success skills: note taking strategies, time management, successful student behaviors, and career exploration.
Grade(s): 12
Prerequisites: Successful completion of Intermediate Algebra and Algebra 2 NR or R.

PRE-CALCULUS

1 Unit
This course is a graphical approach to expose the student to a variety of advanced mathematical concepts, such as number systems, linear and quadratic expressions, finding roots of higher degree polynomials, theory of equations, special functions, beginning limits, exponents, and logarithms, asymptotes, and advanced algebra.
Grade(s): 11-12
Prerequisites: A grade of an 80 on the Algebra 1, Geometry, and Algebra 2 Regents Examinations AND Math Department recommendation.

COLLEGE ALGEBRA AND TRIGONOMETRY *(offered on a rotating basis, based on student enrollment)*

1 Unit
Rational exponents; radicals; factoring; rational expressions; solving quadratic equations and inequalities; polynomial functions; complex numbers; function notation, operations of functions; graphs of functions, inverse functions; properties of exponential and logarithmic functions; trigonometric functions; reference angles; radian measure; graphs of sine, cosine, and tangent; basic trigonometric identities.
Grade(s): 12
Prerequisites: Successful completion of Pre-Calculus.

AP CALCULUS

1 Unit
All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.* AP Calculus AB is roughly equivalent to a first-semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. Students will learn how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and how to make connections amongst these representations. Students will learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. A graphing calculator (TI-84+) is highly recommended. **** Summer work will be required. ****
Grade(s): 11, 12
Prerequisites: A grade of a 92 in Pre-Calculus and Math Department recommendation.

AP STATISTICS *(offered on a rotating basis, based on student enrollment)*

1 Unit
All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.* The purpose of this Advanced Placement course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will explore four broad conceptual themes: data, sampling and experimentation, probability and simulation and statistical inference. This course prepares students to take the AP Exam in Statistics. **** Summer work will be required. ****
Grade(s): 11, 12
Prerequisites: A grade of a 92 in Algebra 2 or Pre-Calculus AND Math Department recommendation.

Other Courses That May Fill Mathematics Credit

COMPUTER PROGRAMMING 1
AP COMPUTER PROGRAMMING 1
AP COMPUTER SCIENCE PRINCIPLES
See listings under "COMPUTER SCIENCE" for full descriptions.

PERFORMING ARTS

The Music Department gives the student an opportunity to deepen his/her understanding of music and to develop personal skills for music performance.
NOTE: All performance-based courses include a concert participation component, without which credit cannot be gained. Any student forced to miss such a concert due to illness may gain credit by: submitting a written excuse from a parent or guardian, AND preparing an 8 -10 page report on a musical topic selected by the teacher, OR a musical composition of equal length. The makeup work must be submitted by the end of the marking period during which the concert is missed.

GRADE 7 MUSIC

Grade 7 music is taught based on the NYS Music Curriculum, including the development of basic music skills, keyboarding skills, and creative activities. Initial training may be remedial to get all students up to NYS levels. Students will create and perform a variety of musical compositions that represent works from people around the world. This course will enhance students' knowledge of traditional, electronic, and nontraditional sound sources to create music. Students will learn to think and speak critically about the aesthetic, structural, acoustic, and psychological qualities of music. Instrumental music courses will also be offered to students who are interested in performance opportunities.
Grade(s): 7

GRADE 8 MUSIC

Music content in grade 8 continues to develop upon lesson topics from Grade 7 General Music. This course addresses areas in creating and Students will learn how to use a variety of sound sources to create and perform music. Through the music curriculum, students will learn to develop the capacity to listen to and comment on music. Students will be exposed to a variety of musical genres, styles, and cultures while creating and performing a variety of musical compositions that represent works from people around the world.
Grade(s): 8

FOUNDATIONS OF MUSIC

1 Unit

- Review of the Music Principles that you learned in Elementary and 7th/8th Grade General Music.
- Understanding of the Foundations of Music - what they are and how they affect all music and people.
- Understanding of the role that music plays in our life.
- Understanding of the roles that people play in music.
- Development of musical thinking and participation skills that lead to an understanding of the six Foundations of Music: listening, performing, composition, arranging, conducting, and improvising music.

Grade(s): 9-12
Prerequisite: Passing grade in 7th and 8th grade music; or approval of the instructor.

MUSIC THEORY

1 Unit

- Review of the fundamentals of music
- Introduction to Ear-training and aural theory skills
- Introduction to formal music analysis
- Development of higher-level musical thinking and participation skills that lead to a thorough understanding of music composition, analysis, and performance.
    - Notation of pitch and rhythm in keeping with standard musical practice.
    - Reading of melodies in treble, bass, and alto clefs.
    - Composition and Analysis in all major and three forms of minor scales.

Grade(s): 9-12

Prerequisite: *Foundations of Music* and/or at least 1 year in *Band* or *Chorus*, and/or permission of the instructor.

CHORUS *(offered on a contingent basis, depending on student enrollment)*

.5 Unit

This course is designed to give students an opportunity to sing in a 4 part harmony setting. The students will learn how to read music, use solfeggio and apply it to part singing. The students are required to sing 2 concerts a year. A Christmas concert and a spring concert. If students cannot make the concerts they will be required to do a 10 page research paper for their grade. This course can be taken every year.

Grade(s): 9-12

Prerequisite(s): None

SELECT CHORUS

This class meets on Sundays from 1:00 – 3:00 PM.

1 Unit

The purpose of Select Chorus is to prepare students for competition and to perform at area events such as Christmas parties and Retirement Homes. This course can be taken every year.

Grade(s): 7-12

Prerequisite(s): Audition

DANCE

.5 Unit

The full year course will cover the basics in Ballet, Tap, and Musical Theater dance. Students will be taken through very strenuous core and balance work as well as cardio. This is a very active course. Students must wear gym attire. Grades are based on effort and final dance project.

Grade(s): 9-12

Prerequisites: None

THEATER ARTS

1 Unit

This class is designed to give the student an experience of several aspects of theater. The student will be taught the basics of acting, voice production and basic body awareness. All this will be done through a hands on approach. The method used is the Viola Spolin and Meisner methodology of acting and awareness. The student will also be taught basic circus skills, such as juggling and balance. The student will also be taught audition skills so that they can go out into the community or college auditions prepared. Finally, the student will be given a brief overview of the history of theater. Students will be assessed on Acting/Audition skills, Juggling/Balance, Scene work, and Theater history.

Grade(s): 9-12
Prerequisites: None

BAND
1 Unit
This course is a band class for beginner students, designed to increase music skills. There is also a study of various types of music and historical materials for many types of band music. An instrument is required in most cases. This course is recommended for ninth graders.
Grade(s): 9-12
Prerequisite: Concurrent enrollment in Sectionals (Brass, Rhythm, or Woodwinds)

INSTRUMENTAL BEGINNER
.25 Unit
This course covers all types of styles and techniques of the student's chosen instrument, including music reading, transposing, improvising, and many other topics. Students will develop skills in basic note reading, master basic chords, and experience group playing in a liturgy or a concert.
Grade(s): 9-12
Prerequisites: None

MODERN MUSIC ENSEMBLE *(formerly Stage Band)*
This class meets Period J (after school) for 2 hours once each week.
1 Unit
- Ensemble that rehearses and performs Modern Music, including but not limited to Jazz, Rock, Pop, and Fusion.
- Beginning/Advanced musical improvisation instruction given during rehearsal time.
- Performances are required.

Grade(s): 9-12 or permission of the instructor
Prerequisites: At least 2 years of playing and performance on the instrument that a student intends to play in the band, and permission of the instructor.

PHYSICAL EDUCATION

The Physical Education Department's emphasis is on lifelong physical activity based on a sequential, kinesthetic approach. Students will be competent in six areas and proficient in all three areas of physical education upon graduation. SCC adheres to the NYS Department of Education standards in physical education: (1) personal health and fitness (2) a safe and healthy environment, and (3) resource management. These standards will lead students to become lifelong activity learners.

GRADES 7 & 8 PHYSICAL EDUCATION
The goal of the Physical Education Program is to guide students in the development and maintenance of fitness levels, acquisition and refinement of sport skills, social skills and sportsmanship and working knowledge of rules and strategies used in game play. This course promotes lifelong learning in the area of health and fitness. Units will include a wide variety of individual and team activities such as; soccer, football, basketball, golf, volleyball, tennis, badminton, baseball, frisbee, bowling, and fitness. Learning and becoming proficient in the skills that make up these

activities is fundamental to the individual's growth and development in each area of sport and activity.
Grade(s): 7-8

GRADES 9-12 PHYSICAL EDUCATION

.5 Unit
The high school (9th-12th) Physical Education program is geared toward an understanding of both individual and team sports concepts and skill development. The Physical Education program also teaches and promotes lifelong skills and activities for a healthy lifestyle as well as reinforcing Christian values through physical activity, cooperative play, and personal responsibilities. The program emphasizes attendance, teamwork and active participation.
Grade(s): 9-12.

PROJECT LEAD THE WAY

The Project Lead the Way Pathway to Engineering (PTE) program is a sequence of courses which follows a proven hands-on, real-world problem-solving approach to learning. Throughout PTE, students learn and apply the design process, acquire strong teamwork and communication proficiency and develop organizational, critical-thinking, and problem-solving skills. They discover the answers to questions like, "How are things made?" and "What processes go into creating products?" Students use the same industry-leading 3D design software used by companies like Intel, Lockheed Martin and Pixar. They explore aerodynamics, astronautics and space life sciences. Students apply biological and engineering concepts related to biomechanics- think robotics. They design, test and actually construct circuits and devices such as smart phones and tablets and work collaboratively on a culminating capstone project. It is STEM education and it is at the heart of today's high-tech, high-skill global economy.
Please note: Many classes are offered on a rotating basis each year. Not every class is offered every year.

INTRODUCTION TO ENGINEERING *(offered on a rotating basis, based on student enrollment)*

1 Unit
In this course, students use 3D solid modeling design software to help them design solutions to solve proposed problems. This course is designed for 9th or 10th grade students. The major focus of this course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. Throughout this course, students will demonstrate the ability to use 3D solid modeling design software to design solutions to proposed problems. Students will be able to communicate solutions to peers and members of the professional community. This course will prepare students for the PLTW end of course assessment. Success on this assessment will determine if students qualify for college credit through RIT. *This course receives a weighting of 1.10.*
Grade(s): 9-12
Prerequisite: 85 or above in Algebra 1 or teacher recommendation

PRINCIPLES OF ENGINEERING *(not offered in 2024-25)*

1 Unit
This survey course of engineering exposes students to some of the major concepts they'll encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high-tech careers and to develop skills and understanding of course concepts. Students employ engineering and scientific concepts in the solution of engineering design problems and will demonstrate ability to document their work and communicate their solutions to peers and members of the professional community. This course is designed for 10th

or 11th grade students. This course will prepare students for the PLTW end of course assessment. Success on this assessment will determine if students qualify for college credit through RIT. *This course receives a weighting of 1.15. This course may fulfill a Science Credit or an Elective Credit.*

Grade(s): 10-12

Prerequisites: Successful completion of Geometry and Introduction to Engineering and teacher recommendation.

DIGITAL ELECTRONICS *(not offered in 2024-25)*

1 Unit

From smartphones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices. Students will gain an understanding of the foundations in electronics through the exploration of fundamental components, concepts, and equipment associated with circuit design. Topics will include, but are not limited to, Foundations of Electronics, Combinational Logic, Sequential Logic, Controlling Real World Systems. Using the systematic approaches of AND, OR, Inverter (AOI) combinational logic, students will apply AOI simplification and logic analysis to take design specifications and translate them into the most efficient circuit possible. Students will gain an understanding of sequential logic through the application of the D and J/K flip-flops for asynchronous counters, synchronous counters, and state machines. This course will prepare students for the PLTW end of course assessment. Success on this assessment will determine if students qualify for college credit through RIT. *This course receives a weighting of 1.15. This course may fulfill a Mathematics Credit or an Elective Credit.*

Grade(s): 10-12

Prerequisites: Successful completion of Introduction to Engineering and teacher recommendation

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SCIENCE

The Science Department endeavors to add an important dimension to the development of the whole person. The scientific approach is used in order to inculcate scientific skills, refine methods of organization as well as manual dexterity, add to the student's fund of knowledge so that the student may learn to make more intelligent judgments regarding the universe in which he/she lives, and increase scientific literacy with respect to many questions in science, especially those with moral implications.

GRADE 7 HEALTH

Students in the 7th grade will gain knowledge and an understanding of healthy development, healthy behaviors, and necessary life skills that lead to high quality of life. Topics and units will include the body systems, character education, physical fitness, nutrition, drugs, alcohol, tobacco, and HIV/AIDS education. Students will analyze various influences that affect health and wellness. Emphasis will be placed on thinking critically and making healthy choices.

Grade(s): 7

GRADE 8 HEALTH

Students in the 8th grade will gain knowledge and an understanding of healthy development, healthy behaviors and necessary life skills that lead to a high quality of life. Topics and units will include disease prevention, body systems, character education, teen sexuality, self-esteem issues, violence and environmental health. Emphasis will be placed

on making good decisions and being a positive influence throughout one's life. Students will exhibit the ability to apply knowledge learned in this class to individual behaviors and situations.
Grade(s): 8

GRADE 7 SCIENCE: LIFE SCIENCE

Students will explore life science by participating in a variety of activities and discussions that allow them to discover by inquiry critical concepts and apply the knowledge they have constructed to their own lives. Throughout the program, students will be building critical skills necessary for lifelong learning. Students will use and apply scientific concepts, principles, and theories to the natural world. They will acquire lab skills through the use of hands-on activities and the integration of technology as a means of gathering, processing, and displaying data. The units of study include: scientific method, structure and function of cells, tissues, organs, and organ systems, heredity and evolution, diversity of life, ecology, and the human body.
Grade(s): 7

GRADE 7 ADVANCED SCIENCE: PHYSICAL & LIFE SCIENCE

This course is designed for the scientifically oriented student, to provide a broad understanding of the fundamental principles of physical and life sciences. Students will use and apply scientific concepts, principles, and theories to the physical and biological world. Through inquiry students will discover the physical and biological world by formulating hypotheses and drawing conclusions. Students will acquire lab skills through the use of hands-on activities and integration of technology as a means of gathering, processing, and displaying data.
Grade(s): 7
Prerequisites: Grade of 93 or higher in Grade 6 science AND teacher recommendation. Concurrent enrollment in Grade 7 Advanced Mathematics.

GRADE 8 SCIENCE: PHYSICAL SCIENCE

Students will explore physical science by participating in activities and discussions that allow them to discover by inquiry critical concepts and apply the knowledge they have constructed to their own lives. Throughout the program, students will be building critical skills that will be available to them for lifelong learning. Students will take a constructivist approach to science investigation and discover the physical world by formulating hypotheses and drawing conclusions. Students will also acquire lab skills through the use of hands-on activities and integration of technology as a means of gathering, processing, and displaying data. The units of study include: scientific method, energy and motion, matter, interactions of matter, waves, light and sound and electricity and magnetism.
Grade(s): 8

THE PHYSICAL SETTING: EARTH SCIENCE R

1 Unit
This course focuses on topics related to the Earth, its properties, and its characteristics. The student will study astronomy, weather, erosion and deposition, the dynamic crust, rock and mineral formation, energy in Earth processes, dimensions of the Earth, glacial geology, insolation and the seasons and landscape development, concentrating on New York State geology and history. Students will use and apply scientific concepts, principles, and theories pertaining to the physical setting and recognize the historical development of ideas in science. They will use mathematical analysis and scientific inquiry to pose questions, seek answers, develop solutions while accessing, generating, processing information using technology. At the end of this course, the student will take a lab skills assessment test and the NYS Physical Setting/Earth Science Regents examination. Laboratory requirements for a Regents science course must be satisfied in order to sit for the exam.
Grade(s): 8-10
Prerequisites for 8th graders only: Grade of 93 or higher in Grade 7 Advanced Science and teacher recommendation. Concurrent placement in Algebra I or a higher level mathematics. Please note:

Completion of Grade 7 Advanced Science does not guarantee placement into Earth Science. Student must demonstrate mastery of Grade 7 Adv Science curriculum to be recommended for Earth Science.

THE LIVING ENVIRONMENT: BIOLOGY R

1 Unit

This course is designed for the scientifically oriented student, to provide a broad understanding of the fundamental principles of biology. The course includes the study of current science findings and their moral implications. The course enables the student to become more familiar with himself/herself and the environment. Laboratory investigations, organization and critical thinking are required. At the end of this course, the student will take the NYS Living Environment Regents examination. Laboratory requirements for a Regents science course must be satisfied in order to sit for the exam. This is a required course for graduation.

Grade(s): 9-10

Prerequisite: Successful completion of Regents Earth Science

THE PHYSICAL SETTING: GENERAL CHEMISTRY (Non-Regents)

1 Unit

This is a non-rigorous, lab-based course for the student who wishes to learn about Chemistry. The course will cover all of the usual topics: Periodic Table, Atomic Structure, Physical Properties, Nomenclature, Bonding, Organic, and Nuclear. There will be some math, but not Algebra. Projects will be quarterly and writing essays will be a must. There will be a Midterm exam project and a Final exam project.

Grade(s): 11-12

Prerequisite: Successful completion of Regents Earth Science & Regents Biology

THE PHYSICAL SETTING: CHEMISTRY R

1 Unit

Throughout the course of the year, students will discover chemical relationships pertaining to the gas laws, stoichiometry and nomenclature, nuclear chemistry, chemical kinetics and equilibrium, atomic and molecular structures, acid-base chemistry and solutions and organic chemistry. Students will demonstrate an understanding of chemical symbols and relationships and will be able to identify the major contributors to the field of chemistry. This is a laboratory-based course, so many labs will be performed as required by the state. Students will be able to perform experiments in an efficient and competent manner. At the end of this course, the students will take the NYS Physical Setting/Chemistry Regents examination. Laboratory requirements for a Regents science course must be satisfied in order to sit for the exam.

Grade(s): 10-12

Prerequisites: Successful completion of Algebra 1, The Living Environment: Biology R, and The Physical Setting: Earth Science R OR The Physical Setting: Physics R. Grade 10 students must be concurrently enrolled in Algebra II or a higher level mathematics course and recommendation of department

THE PHYSICAL SETTING: PHYSICS R

1 Unit

This course examines the principles of physics, following the NYS syllabus. Coverage includes the use of vectors, descriptions of motion, work and energy, gravitation, electricity and magnetism, waves, optics and introduction to quantum concepts. Students will learn about the concepts and theoretical basis for physical phenomena studied in this course. At the end of this course, the students will take the NYS Physical Setting/Physics Regents examination. Laboratory requirements for a Regents science course must be satisfied in order to sit for the exam.

Grade(s): 11, 12

Prerequisites: Successful completion of or concurrent enrollment in Algebra II. Successful completion of The Living Environment: Biology R and The Physical Setting: Earth Science R.

ENVIRONMENTAL SCIENCE

1 Unit

The intent of this course will be to investigate all of the environments that we live in and the impacts we have on them. The main focus will be on Pollution, Sustainability and Ecology, as it pertains to individuals and the world. Students will demonstrate knowledge of laws that are in force that protect the environment. Students will learn about their part and place in our world and what they can do to improve it. They will explore the role industry can play in conserving natural resources and eliminating waste products.

Grade(s): 12

Prerequisites: Successful completion of The Living Environment: Biology R and a Physical Science

EMERGENCY MEDICAL SERVICES (EMS)

1 Unit

The course is intended for students who plan to become an EMT as well as other health-care fields, such as medicine, nursing, etc. Students will understand the importance of prehospital care in the overall treatment of patients admitted to the hospital through the emergency room. Students will demonstrate understanding of how to perform history and physical examinations, and transportation of patients. The textbook for the course is Emergency Care by Daniel Limmer. It is the same text used to teach students preparing to become EMT professionals. The completion of this course will not qualify the student to take the licensure examination for EMT certification, but it is an excellent preparation for any student who wishes to become an EMT. To be certified as an EMT the student must be 18 years of age by the end of the month in which the examination is given and must repeat this course at a local ambulance company.

Grade(s): 11, 12

Prerequisites: Living Environment

FORENSIC SCIENCE

.5 Unit

This course is intended as an overview of the medico-legal investigation of death. The topics will include, but are not limited to, scene investigation, collection of physical evidence, gunshot wounds, blunt force trauma, drug-related deaths, and expert witness testimony. Students will learn to perform basic investigative procedures such as fingerprint identification, hair and fiber analysis, document identification, blood typing, and handwriting analysis. The course syllabus will closely follow the course textbook *Criminalistics* by Richard Saferstein, supplemented by materials obtained from the Armed Forces Institute of Pathology and the College of American Pathology. Some of the materials presented will be from actual criminal cases. Students can receive college credit for this course from SUNY Broome through the Fast Forward Program.

Grade(s): 11, 12

Prerequisites: Successful completion of The Living Environment: Biology R with concurrent enrollment in or completion of The Physical Setting: Chemistry R and/or The Physical Setting: Physics R recommended

HEALTH

.5 Unit

This required course covers all areas of health -- not just the physical, but also the emotional, mental, and spiritual aspects as well. The Curriculum will include such topics as memory skills and speed reading as well as infectious disease, mental health, alcohol and drug abuse, abstinence, the Catholic Church's views on abortion and birth control, Natural Family Planning, time management, cancer, suicide, and child abuse.

Grade(s): 10-12

Prerequisites: Successful completion of The Living Environment: Biology R

INTRODUCTION TO ANATOMY AND PHYSIOLOGY

.5 Unit

This course will provide a basic overview to the anatomical structures and physiology of the human body. Each body system will be discussed in terms of the major anatomical structures and function including how each system participates in homeostasis of the body. In addition, the course discusses selected major pathologies, including disease definitions and causes, signs and symptoms, diagnostic procedures, and possible treatments. Students will explore the structures, functions, and disease process of the human body and its systems and integrate the knowledge acquired in this course into a prospective health care related career. Finally, the course also attempts to discuss common issues and changes that occur in each body system through the lifespan. Students can receive college credit for this course from SUNY Broome through the Fast Forward Program.

Grade(s): 11, 12

Prerequisites: Successful completion of The Living Environment: Biology R

MEDICAL TERMINOLOGY

.5 Unit

This medical terminology course will focus on a step-by-step study of principles of medical word building, in order to help students to develop a basic knowledge of the extensive medical terminology used by health care practitioners. Students will acquire their knowledge through the study of prefixes, suffixes and root words, without ignoring proper pronunciation and spelling of these. For each body system, a brief review of anatomy and physiology will be provided. This course is geared towards students with an interest in enrolling in a healthcare related degree. Students can receive college credit for this course from SUNY Broome through the Fast Forward Program.

Grade(s): 11, 12

Prerequisites: Successful completion of The Living Environment: Biology R. Completion of or enrollment in Introduction to Anatomy & Physiology is recommended but not required

AP BIOLOGY

1 Unit

All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.*

This course is designed for the college-bound student who may or may not be planning to major in the biological sciences or one of the natural sciences. Students will explore major biological concepts, including those of biochemistry. Students will use inductive reasoning and describe major investigations in important aspects of biology while demonstrating laboratory skills required of a first year college student. This is a first-year college course covering all aspects of biology. This course prepares students to take the AP Exam in Biology. **** Summer work will be required. ****

Grade(s): 11, 12

Prerequisites: 90% final average in The Living Environment: Biology R and The Physical Setting: Chemistry R and recommendation of department.

AP CHEMISTRY

1 Unit

All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.*

This is a college-level general chemistry course designed for the serious science student. It includes all of the topics from Regents Chemistry covered in greater detail, along with some molecular orbital theory and solid state crystal theory. Outside assignments include seminars at Binghamton University and participation in the Chemistry

Olympiad. Students can receive college credit for this course from SUNY Broome through the Fast Forward Program. This course prepares students to take the AP Exam in Chemistry. **** Summer work will be required. ****
Grade(s): 11, 12
Prerequisites: 90% final average in The Living Environment: Biology R and The Physical Setting: Chemistry R and recommendation of department

AP ENVIRONMENTAL SCIENCE

1 Unit
All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.*
This course is designed to be the equivalent of a one-semester, introductory college course in environmental science. The goal of the course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving or preventing them. Environmental Science is interdisciplinary; it embraces a wide variety of topics from different areas of study, yet there are several major unifying themes that cut across the many topics included in the study of environmental science. This course prepares students to take the AP Exam in Environmental Science. **** Summer work will be required. ****
Grade(s): 12; grade 11 with teacher permission
Prerequisites: 90% final average in both a Physical Science course and The Living Environment: Biology R and recommendation of department

COLLEGE PHYSICS

1 Unit
Physics includes the study of matter and motion, mass and energy. It tells you how and why things move. It is important for everyone from technicians to doctors to know why something happens. Problem solving skills that you learn in physics will help you in other courses, as will the skills in laboratory observation and analysis. Strong emphasis is placed on solving a variety of challenging problems. The subject matter in the first semester is mechanics and heat. The second semester covers electricity, magnetism, waves, light, optics, and modern physics. This course forms the first part of the college sequence that serves as a foundation for the student majoring in the physical sciences, engineering, or biology. Students can receive 8 college credits for this course from SUNY Broome through the Fast Forward Program. *This course receives a weighting of 1.15.*
Grade(s): 11,12
Prerequisites: Minimum grades of 90 on: Regents Chemistry Exam or Regents Physics Exam and a minimum grade of 90 on the Algebra 2 Regents Exam.

SOCIAL STUDIES

The Social Studies Department believes social studies is the study of human social relationships - local, national and international - both past and present, with preparation for the future. The program rests on the assumption that American society depends upon citizens whose decisions and actions reflect basic Christian and democratic values. Realizing that our society is characterized by cultural pluralism, the department exposes the student to knowledge and skills that will aid in forming Christian moral and social attitudes and foster respect for humankind within and outside the American culture.

GRADE 7 SOCIAL STUDIES: U.S. HISTORY

Social studies content in grade 7 is a chronological examination of United States history. Grade 7 curriculum concentrates on early Native peoples and early American experience through the Civil War Era. New York State history is infused throughout the coursework. It studies/discovers political, geographic, economic, and social trends in United States history. It provides a solid content base in American history, helping students develop an understanding of the rights and duties for participatory citizenship. It will provide students a model for the global connections they will discover in the grades 9 and 10 social studies program. Students will develop reasoning skills necessary to extend inquiry, expand knowledge, and understand how the past is studied and interpreted.

Grade(s): 7

GRADE 8 SOCIAL STUDIES: U.S. HISTORY

Social studies content in grade 8 continues with the chronological examination of United States history that was begun in Grade 7. Grade 8 curriculum concentrates on United States history from the mid-19th century to the most recent period. New York State history is infused throughout the coursework. It studies/discovers political, geographic, economic, and social trends in United States history. It provides a solid content base in American history, helping students develop an understanding of the rights and duties for participatory citizenship. It will provide students a model for the global connections they will discover in the grades 9 and 10 social studies program. Students will develop reasoning skills necessary to extend inquiry, expand knowledge, and understand how the past is studied and interpreted.

Grade(s): 8

GLOBAL HISTORY & GEOGRAPHY 1

1 Unit

This is the first part of the Global Studies curriculum in which all parts of the world will be studied except the United States and Canada. Global History and Geography 1 covers the history of Europe, Asia, Africa, and Latin America from the earliest hunter-gatherer societies through the end of the seventeenth century. This course will mostly be chronological in nature. The modern world will be covered in the second year of the course. In this course, students will become familiar with the development and characteristics of civilization. They will master map skills, relationships relevant to time periods, and cause-effect relationships inherent in the flow of history. Students will be able to interpret the development of different methods of logic and critical thinking as a result of the various geographic, historical, and socio-economic events within each culture.

Grade(s): 9

GLOBAL HISTORY & GEOGRAPHY 2R

1 Unit

This is the second part of the Global Studies curriculum. It picks up where Global History and Geography 1 concludes, which is at the end of the seventeenth century. The course is chronological in nature. It examines the history of Europe, Asia, Africa, and Latin America from 1700 to the present. Students will develop an understanding and explanation of current issues and events throughout the world, will be aware of how the nations of the world are interdependent in relationship to current issues and events, and will understand the effects of religion, economics, nationalism, imperialism, militarism, and balance of power on much of the history of the western world in the past three centuries. Students will take the Regents Exam in Global History & Geography upon completion of the course.

Grade(s): 10

Prerequisite: Successful completion of Global History & Geography 1

UNITED STATES HISTORY AND GOVERNMENT R

1 Unit

United States history is the history of a great experiment in representative democracy. The basic principles and core values expressed in the Declaration of Independence became the guiding ideas for our nation's civic culture. U.S. history since the Declaration of Independence has witnessed continued efforts to apply these principles and values to all people. Adoption of the U.S. Constitution codified these principles but, as the history of our nation shows, that document and its amendments represented on a first step in achieving "liberty and justice for all". The core curriculum is organized into seven historical units. Each unit lists content, concepts, and themes, and connections that teachers will use to organize classroom and plan for assessment. Students will gain knowledge of the structure and function of the United States' government, will develop an understanding of the rights and duties of the government and the citizens, and will demonstrate an understanding of the United States' role and influence in international affairs. The final exam for this course is the Regents Exam in United States History and Government.

Grade(s): 11

Prerequisite: Successful completion of Global 1 and Global 2R

AP UNITED STATES HISTORY

1 Unit

All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.*

The United States History AP course is the standard U.S. History survey course, usually given in the second year of college. The course covers the period from colonization to the present time. The emphasis is on the presentation of factual knowledge and critical analysis. The latter should be of a degree expected of a college sophomore. Mature reading comprehension and writing skills are essential. Students will develop critical analytical skills in responding to a series of thematic and document-based essay questions relating to topics in United States history. Students will demonstrate an understanding of key themes and turning points in United States history and an understanding of the framing of the constitution and its response to challenges in American society. The student will be prepared to take the AP Exam in United States History and the NY State Regents Exam in United States History and Government. **** Summer work will be required. ****

Grade(s): 11

Prerequisites: Successful completion and 90 overall in 2 years of Social Studies and English. There is a summer reading assignment and this assignment will be the basis of a test in September.

CONSTITUTION 101 *(offered on a rotating basis, based on student enrollment)*

.5 Unit

Constitution 101 is a 15-unit curriculum that provides students with a basic understanding of the Constitution's text, history, structure, and case law. Drawing on primary source documents from The National Constitution Center's curated online Founders' Library—containing over 170 historical texts and over 70 landmark Supreme Court cases selected by leading experts of different perspectives—students will study the historical and philosophical foundations of America's founding principles from a range of diverse voices. The curriculum guides students to think like constitutional lawyers—cultivating the skills necessary to analyze all sides of constitutional questions.

Grade(s): 11-12

HISTORY OF BASEBALL AND AMERICA

.5 Unit (Spring Elective)

This course is designed to study the influence of baseball in American history. Major focus will be placed on the Black Sox scandal, Jackie Robinson and the steroids era. Students will be expected to write a well-researched paper

on baseball's influence on the United States. Throughout the duration of this course, students will demonstrate the influences of baseball on American society, gain a greater understanding of how historians work with source documents, and describe the way games can influence a culture.
Grade(s): 11- 12
Prerequisites: Complete Global Studies 2R or AP World History with an average of 80 or higher.

ECONOMICS

.5 Unit
This course is one part of the mandated fourth credit in social studies. It is designed to give the student a better understanding of the role and importance of economics and economic systems in our national and international society. Upon completion of this course, students will be able to discuss methods of measuring the economy and the factors that affect it. Students also will be able to describe the role of the United States in the world economy.
Grade(s): 12

PARTICIPATION IN GOVERNMENT

.5 Unit
This course is one part of the mandated fourth credit in social studies. This course will emphasize the interaction between citizens and government at all levels -- local, state, and federal. The development of student participation in the process of government is encouraged. Students will understand the importance of citizen participation in a democratic society, identify and analyze policy issues, and identify the role of values in influencing public policy decisions.
Grade(s): 12

AP PSYCHOLOGY

1 Unit
All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.*
This is a college-level course which introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatments of psychological disorders, and social psychology. Students will employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence, and effectively communicate ideas. **** Summer work will be required. ****
Grade(s): 11-12
Prerequisites: 92 in English or 85 in advanced English

AP WORLD HISTORY: MODERN

1 Unit
All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.*
This college-level course is offered to qualified students who seek the challenge of learning about modern world cultures in addition to and beyond the NYS Global Studies Regents curriculum. It will study, in depth, the nature of continuity and change in cross-cultural settings and focus on the comparisons of major societies throughout world history beginning roughly around the year 1200 CE. The course encourages historical thinking skills and the analysis of primary texts; students will be taught the contextual and analytical processes needed to use unabridged sources and documents effectively, in line with current AP standards. Essay development and writing skills are heavily stressed. Major assignments include a summer preparatory project, a series of in-class presentations, and

supplemental readings, in addition to a daily routine of class discussion and lecture-based learning. This course prepares students to take the AP World History: Modern exam in May and the NYS Regents exam in Global History and Geography in June.
**** Summer work will be required. ****
Grade(s): 10
Prerequisites: Average of 92 or above in both Global 1 and English 9 and teacher recommendation.

AP ECONOMICS

1 Unit
All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.*
This course is designed to prepare students to take AP exams in Microeconomics and Macroeconomics. Topics of this course include scarcity, supply and demand, fiscal policy, monetary policy and more basic topics in Economics. Students will critically analyze government policies and individual decision-making. This course may be taken in place of Participation in Government and Economics or in addition to these courses or AP European History. **** Summer work will be required. ****
Grade(s): 12
Prerequisites: Average of a 92 or better in United States History and Government R or a 90 in AP U.S. History, an average of an 88 or greater in Algebra 2 and teacher recommendation.
A summer reading assignment is required.

AP EUROPEAN HISTORY

1 Unit
All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.*
This college-level elective course is an in-depth study of European civilization and its influence on the modern world from roughly 1450 CE to the present day. Topics include the political, social, religious, intellectual, and technological evolution of European states within this time period. The course encourages historical thinking skills and the analysis of primary texts; students will be taught the contextual and analytical processes needed to use unabridged sources and documents effectively, in line with current AP standards. Essay development and writing skills are heavily stressed. Major assignments include a summer preparatory project, a series of in-class presentations, and supplemental readings, in addition to a daily routine of class discussion and lecture-based learning. This course may be taken in place of or in addition to Economics and Participation in Government. It prepares students to take the AP European History Exam.
**** Summer work will be required. ****
Grade(s): 12
Prerequisites: Teacher recommendation.

THEOLOGY

Students who attend SCC are assigned to a specific theology course based on grade level. The purpose of the Theology Department is to instruct the student in sound Catholic Doctrine, thus enabling the student to be deeply rooted in the principles of Christian living now and in the future. The department also aims to

contribute significantly to the building of a vibrant Christian community among the students of our high school and to provide spiritual direction.

GRADE 7-8 THEOLOGY

Seventh and eighth grade students use both the Loyola Press "Finding God Following Jesus" and "Finding God Celebrating Church" texts. These texts align with the same catechetical series that all elementary Broome County Catholic Schools religion teachers currently use to develop curriculum. In addition to considering the liturgical calendar, reading about saints and sharing prayer, students also discuss decision making in light of their relationship with their Creator. Finally, service to their community is independently implemented.
Grade(s): 7 & 8

THEOLOGY 9-10

1 Unit each year

This course is a combination of Biblical study and Church Catholic teaching on current event topics as they affect the students and the world. Students will come to be better understanding of the Church's stance on important topics that concern the people of God.

There is a one-page paper due each month. It is to show what the student has learned throughout the month and how what we have talked about has affected them and their views on the Church. There is also a service component as well; the student must document 40 hours of service over the full year (10 hours a quarter).
Grade(s): 9-10

THEOLOGY 11

1 Unit

This junior-level course designed to acquaint students with the major religious traditions of the world, and to the academic discipline of religious studies. The religions studied are Judaism, Christianity, Islam, Hinduism, Buddhism, and others. Students will especially learn the distinctiveness of Christianity in relation to those faiths.
Grade(s): 11

THEOLOGY 12

1 Unit

During the first semester, students will examine current issues in the light of faith and explore the United States Catholic Conference of Bishops' *Faithful Citizenship* program for civic participation. Issues covered will include world poverty, poverty in the United States, education, immigration, the drug crisis, the dignity of all human life, international human rights, human trafficking, and the criminal justice system.

In the second semester, students will explore their faith and spiritual lives as well as moral decisions that will impact their future in the coming years. The transition from high school to college will be discussed. Discerning career goals and a vocation to the married, religious, or single life will also be examined. A focus of the course will be developing a prayer plan or a plan for life based on the Spiritual Exercises of St. Ignatius of Loyola.

Students will be required to participate in and report on 10 hours of community service.
Grade(s): 12

VISUAL ARTS

The SCC Visual Arts Department is designed to enrich the lives of students, to develop in them an awareness of the richness of God's creation, to stimulate and challenge their creative potential, to stress the importance of art in contemporary living and in our cultural heritage, and to respect individual vision and expression.

GRADE 7 ART

The art program for grade 7 is a continuation of the building of hand-eye coordination while exploring new art materials. The students will engage in learning new drawing techniques, exploring color with paint and other mediums, and gain a further understanding of how to create three-dimensional objects. An exploration of the Elements of Art will be done through a variety of exercises in an art journal. All projects will comply with the New York State Learning Standards in Art.

Grade(s): 7

GRADE 8 ART

The art program for grade 8 is a deeper endeavor into the creative process and how our right and left brains connect and can help strengthen all that we do. Students will be allowed to explore even further with art materials, while still learning new techniques in drawing, painting and sculpture. Students will, through the exploration of the Principles of Art, analyze and understand artworks from different periods and artists. All projects will comply with the New York State Learning Standards in Art.

Grade(s): 8

STUDIO IN ART

1 Unit

The student is given a variety of studio experiences in which to explore different element of art, i.e., space, light and color, shape, line, and texture. Movements and trends in art history are also studied. This course serves to offer the beginning art student direct contact with the various forms and media of the visual arts. Students will recognize, understand, and compare many types of artwork from different periods, styles, artists, and media.

Grade(s): 9-12

Prerequisites: none

DRAWING AND PAINTING

1 Unit

This is primarily a studio course in which the art student concentrates on exploring the techniques of drawing and painting media such as pencil, pen and ink, pastels, watercolors (both opaque and transparent), and acrylics. Problems in composition and color are considered, as well as the development of individual style. Throughout this course, students will explore more sophisticated media and advanced technique. This course aims to develop and strengthen the creative process through problem solving.

Grade(s): 10-12

Prerequisites: Successful completion of Studio in Art

ADVANCED DRAWING AND PAINTING

1 Unit

In this course, the student will create works of art that explore different kinds of subject matter, topics, themes, and metaphors. The student will work towards a more mature level of drawing and painting skills, building on

experiences gained in previous studies and art projects. These experiences will take place in a studio atmosphere where individual style will be emphasized. A variety of art materials, processes, mediums, and techniques will be explored. Students will create a collection of artwork, in a variety of media, based on instructional assignments and individual and collective experiences which explore perceptions, ideas and viewpoints.
Grade(s): 11, 12
Prerequisites: Successful completion of Studio in Art and Drawing and Painting

SCULPTURE

.5 Unit
This course is designed to challenge students to think spatially, using a wide variety of mediums including plaster, clay, wire, papier mâché, and more. Students will be confronted with the concept of "What is Art?" through an exploration of contemporary sculpture and its wide implications for society. Throughout this course we will build up basic skills towards professional sculptor practices, culminating in a final conceptual sculpture.
Grade(s): 10-12
Prerequisites: Successful completion of Studio in Art

INTRODUCTION TO CERAMICS

1 Unit
This course introduces students to fundamental methods of forming clay. The basic techniques for handbuilding (pinch pot, slab construction, and coil construction) will be demonstrated. Special emphasis is placed on the development of basic technique for throwing pots on the potter's wheel. Students will learn to finish pieces with various types of glaze and firing techniques. The terminology and definitions of materials and ceramic processes and ceramic art history will be presented. As a result of this course, students will acquire an understanding of the nature of clay, glazes, and ceramic processes and equipment.
Grade(s): 10-12
Prerequisite: Successful completion of Studio in Art

CERAMICS 2 (not offered in 2024-25)

1 Unit
Ceramics II is designed for students who have completed Introduction to Ceramics and want to perfect and refine their abilities in ceramics. The wheelwork is more rigorous and more challenging assignments are given. New techniques will be introduced and applied in more complex ways than in Introduction to Ceramics. New glazing techniques will also be introduced.
Grade(s): 10-12
Prerequisites: Successful completion of Introduction to Ceramics

YEARBOOK

.5 Unit
Students in this class will help prepare the annual yearbook.
Grade(s): 11-12
Prerequisites: none

AP DRAWING 1

1 Unit
The course weighting of a 1.15 will ONLY be applied to the GPA of those students who submit a portfolio at the end of AP Studio in Art 2.
This is a two year program that is geared toward making it possible for the highly motivated student to do college level art work. This is a course that focuses on designing a portfolio for the AP Studio General Portfolio exam.

During this course, the student will examine the AP portfolio requirements, review their work created thus far, and evaluate its quality. Newly generated artistic pieces will be aimed toward fulfilling the requirements of the portfolio exam. Students will apply aesthetic and expressive aspects of the visual arts, a sense of individuality in their own works, and a respect for uniqueness in self and in others. Course projects are designed to cover the breadth, concentration, and quality portion of the exam. Exploration and process will be emphasized as a means of developing a concentration that represents growth and understanding.
**** Summer work will be required. ****
Grade(s): 11
Prerequisites: 94% minimum average in Studio in Art and Drawing and Painting and permission of Department

AP DRAWING 2

1 Unit
All students enrolled in this course are required to submit a portfolio for the Advanced Placement exam.
The course weighting of a 1.15 will ONLY be applied to the GPA of those students who submit a portfolio.
This is the second of a two-year program geared toward making it possible for the highly motivated student to do college level artwork. This course focuses on designing a portfolio for the AP Art & Design Portfolio exam. During this course, the student will exam the AP portfolio requirements, review the work created thus far, and evaluate its quality. Newly generated artistic pieces will be aimed toward fulfilling the requirements of the portfolio exam. Students will apply aesthetic and expressive aspects of the visual arts, a sense of individuality in their own works, and a respect for uniqueness in self and in others. Course projects are designed to fit a sustained investigation as well as the quality portion of the submitted portfolio. Exploration and process will be emphasized as a means of developing a concentration that represents growth and understanding. **** Summer work will be required. ****
Grade(s): 12
Prerequisites: Successful completion of AP Studio in Art 1 and permission of Department

AP ART HISTORY

1 Unit
All students enrolled in this course are required to sit for the Advanced Placement exam. *The course weighting of a 1.15 will ONLY be applied to the GPA of those students who sit for the Advanced Placement exam.*
This course teaches students to understand works of art within their historical context by examining issues such as politics, religion, patronage, gender, function, and ethnicity. The course teaches students to understand works of art through both contextual and visual analysis. Students will be able to recognize, understand and compare many types of art work including works from different periods, styles, artists and media. They will engage in analytical and critical thinking, creating comparisons from one artwork to another including comparisons between European and non-European work. This course aims to prepare students to successfully complete the advanced placement exam and leave the course with an appreciation of the history of art through further study and/or museum patronage. **** Summer work will be required. ****
Grade(s): 11, 12
Prerequisites: Department approval. Completion of AP World History is strongly encouraged. A summer assignment is required.

TYPICAL COURSES BY GRADE

Grade 7:
Theology
English Language Arts
Social Studies
Mathematics/Advanced Mathematics
Science/Advanced Science
LOTE
Art
Music
Health
Computer Science
Physical Education

Grade 8:
Theology
English Language Arts
Social Studies
Mathematics/Algebra 1
Science/Regents Earth Science
LOTE
Art
Music
Health
Computer Science
Physical Education

Grade 9:
Theology 9
English 9
Global History 1
Mathematics
Science
LOTE
Art/Music
Physical Education
1 Credit of Electives

Grade 10:
Theology 10
English 10 or 10H
Social Studies
Mathematics
Science
Physical Education
2 Credits of Electives

Grade 11:
Theology
English
Social Studies
Mathematics
Science
Physical Education
2 Credits of Electives

Grade 12:
Theology
English
Health
Economics
Participation in Government
Mathematics
Science
Physical Education
1.5 Credits of Electives

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