

Ballston Spa

CENTRAL SCHOOL DISTRICT



High School

Course Descriptions

2016-2017

Educating Everyone Takes Everyone

ALL COURSES WILL BE OFFERED PENDING SUFFICIENT ENROLLMENT AND THE AVAILABILITY OF STAFF

During the spring semester, all students select courses for the following year. Course selections are based on graduation requirements, student interest, teacher recommendations, and successful completion of current courses. Every student is given a copy of these selections to bring home for parent review.

Parents and students are encouraged to discuss any questions regarding students' schedules with their school counselors. All changes in course selection must be made prior to April 22, 2016. Requests to override a teacher recommendation requires a meeting with both the counselor and an administrator by April 22, 2016. Prior to the opening of school in September, students will be notified by a school counselor of any conflicts that may arise in the scheduling of their course selections.

SCHEDULE CHANGES WILL NOT BE MADE AFTER April 22, 2016

Things to consider as you select courses:

Consider course selection carefully. Courses that suffice graduation requirements are of utmost importance. There will also be opportunities to choose courses that allow for college preparation as well as the exploration of careers during high school. Courses such as computer literacy, public speaking, art, music, technology, or business, will provide students with various skill sets in addition to core academic classes.

Each student in grades 9-11 is required to carry a minimum of 7 scheduling periods each semester. Seniors must carry at least 6 scheduling periods.

Many students erroneously think that G.P.A. and standardized test scores (SAT/ACT) are the only factors considered when applying to college. The diversity and academic strength of a student's high school transcript is greatly considered during the college admissions process. As a senior, it is important to continue with rigorous courses for college admission and employment after high school. Colleges like to see students who have taken challenging courses and developed a well rounded program, strong in mathematics, science and foreign language in addition to English and social studies courses.

BUSINESS

Students may use a 5-unit sequence in business to substitute for the Foreign Language requirement for a Regents Diploma with Advanced Designation. Schenectady County Community College has authorized our Business department to offer College in the High School (CHS) courses in Principles of Business Marketing, Computer Applications and Mathematics for Business Finance. All students enrolled in these courses are expected to register with SCCC for the college credit.

1/2 UNIT COURSES

PERSONAL FINANCE	HS1713
GRADE	10, 11, 12
CREDIT	1/2 Unit
FINAL ASSESSMENT	Project

Personal Finance is an introductory course that will provide a foundation for informed decision making skills with regard to personal and financial decisions. The students will learn real world applications such as household income, money management, lines of credit, spending saving and investing. Students will design household budgets, simulate the use of checking accounts, evaluate investment options, and demonstrate the proper use of credit and determine insurance needs.

THE FASHION INDUSTRY	HS1717
GRADE	10, 11, 12
CREDIT	1/2 Unit
FINAL ASSESSMENT	Project

The Fashion Industry is an introductory course that will explore the impact of the fashion industry on society. The students will learn the basic terminology and fundamentals of the fashion industry, an emphasis will be placed on the concepts of product development, manufacturing, wholesale markets, sales promotion, textiles, visual displays, distribution and fashion retail.

HOSPITALITY AND TOURISM	HS1718
GRADE	10, 11, 12
CREDIT	1/2 Unit
FINAL ASSESSMENT	Project

Hospitality and Tourism is an introductory course that will explore the exciting and diverse industry of hospitality and tourism. The students will focus on various aspects of the industry with an emphasis on hotels, motels, restaurants, resorts, theme parks, gaming and other travel-related components. The course will also provide an overview of marketing, management, customer service principles and career exploration.

SPORTS MARKETING AND MANAGEMENT	HS1720
GRADE	10, 11, 12
CREDIT	1/2 Unit
FINAL ASSESSMENT	Project

Sports Marketing and Management is an introductory course that will explore the activities and organizations within the sports industry. The students will learn aspects of producing, promoting and organizing sport related businesses and products. This project-based course will also cover sponsorships and endorsements, facility and event management, collegiate and professional sports, and careers in the industry, including sports agents.

CEIP – CAREER EXPLORATION INTERNSHIP PROGRAM	HS1704
GRADE	12
CREDIT	1/2 Unit (Pass/Fail)
FINAL ASSESSMENT	Project and time requirement

CEIP – Career Exploration Internship Program includes both an internship and seminar instruction. The purpose of the program is to provide hands on opportunities for students to learn about a potential career, and become informed, successful employees. It is a pass/fail course that requires 54 hours of internship experience and completion of independent assignments. Students will complete two unpaid internships in which their interests are considered when placements are assigned; however some career areas are limited and students must be willing to participate regardless. Seminars cover topics such as self-assessments, workplace safety, job searches, mock interviews, ethics in the workplace, and college selection. The independent assignments include creating a career portfolio, resumes, cover letters, letters of reference, and thank you letters.

Requirements: computer access, current health physical, working papers, personal transportation to the internship site, and acceptance into the program (see application for criteria).

1 UNIT COURSES

INTRODUCTION TO CTE (CAREER AND TECHNICAL EDUCATION) HS1721

GRADE 9, 10
CREDIT 1 unit
FINAL ASSESSMENT School Exam

Introduction to CTE is an introductory business course that connects project based learning with “real world” and career applications in order to develop the life skills needed to maintain an occupation in the 21st century. Students will utilize technology to research, interpret, and evaluate information regarding a variety of careers. Students will also enhance their interpersonal skills and learn how to apply such work force skills during their work-based learning activities. Topics to be addressed include methods of communication, styles of leadership, the management processes, personal aptitudes and interests, and the responsibilities of various life roles for students as individuals and as contributing members of a community. It is important to note that this course requires student participation in work-based learning experiences.

ACCOUNTING HS1701
GRADE 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT Project

Accounting is a course designed to provide knowledge of business papers, office procedures and business practices in bookkeeping and accounting. The students will learn the skills to maintain ledger accounts and interpret financial data. Students will learn how debits and credits are used in the journalizing process; as well as the concepts of posting assets, liabilities, owner’s equity, revenues, expenses, financial statements, and payroll.

PRINCIPLES OF BUSINESS MANAGEMENT HS1702

GRADE 11,12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam and project

Principles of Business Management is an introductory course that allows students to explore the diverse world of business, its structure and its impact upon society. Students will learn the basic principles of management including the environment of business, forms of business ownership, laws governing business, production, marketing, financial management, human resource management, leadership, and other management responsibilities.

CHS PRINCIPLES OF BUSINESS MARKETING HS1710 (College # MKT 223)

GRADE 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam and project

CHS Principles of Marketing is a college level course that introduces the practices and principles of marketing. Students will learn concepts of promotion, pricing, selling, purchasing, product planning, information management/research, distribution and risk management. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 3 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

CHS MATHEMATICS FOR BUSINESS FINANCE HS1712 (College # BUS 113)

GRADE 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

CHS Mathematics For Business Finance is a college level course that is designed to enhance the mathematical skills applied in the business field. Students will learn the calculations of cash discounts, percentages, simple interest, inflation, discounting notes, payrolls, bank reconciliations, business and consumer loans, depreciation, and inventory evaluation methods. Students are strongly encouraged to successfully complete three years of mathematics prior to enrolling in this course. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 3 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

CHS ADVANCED COMPUTER APPLICATIONS HS1901

(College # CIS 121/221)

GRADE 11, 12**CREDIT** 1 Unit**FINAL ASSESSMENT** School Exam

CHS Advanced Computer Applications introduces the student to fundamental concepts of computers and computing including number systems, hardware, architecture, information processing, operating systems, networks (including the Internet) and web design. Additionally, students will complete significant projects utilizing contemporary word processing, spreadsheet, and presentation graphics software. Fundamentals of programming will be explored using modern programming languages. This course also provides students with the opportunity to increase their knowledge of several components of the Microsoft Office suite of software applications. Upon completion of this course, students will be prepared to test as certified Microsoft Office User Specialists. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 6 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

ENGINEERING AND TECHNOLOGY

Design and Drawing for Production (DDP) may be used as the 1 unit of credit in Art or Music to fulfill that graduation requirement. Students may complete a 5-unit sequence in Technology as a substitute for the Foreign Language requirement necessary for a Regents Diploma with Advanced Designation. Principles of Engineering (POE) or Digital Electronics (DE) may be used to fulfill the third year of Science required for graduation.

Ballston Spa High School participates in Project Lead the Way (PLTW), a pre-engineering program that awards college credit for the work students complete in high school, to prepare more of our students for careers in STEM. Courses are indicated as part of this program in this course description handbook if the title of the course is followed by PLTW. Rochester Institute of Technology (RIT) is the affiliate college for all PLTW courses in New York State. Students who maintain an 85% average in these courses and score at least a 6 on the PLTW end of course assessment are eligible to apply for 4 college credits from (RIT). STEM foundational course sequence in Engineering is: DDP, DE, and POE.

Many of the courses in the Construction Strand on Residential Construction allow students to earn national certifications if they pay for and successfully pass a test at the end of the course.

Students interested in pursuing college studies or careers in Engineering and Technology have a wide variety of opportunities in course work. In addition, the Technology Club, Robotics Club and Communication Club are available for students to expand and apply their knowledge and talents outside the classroom.

CONSTRUCTION STRAND

BASIC PRINCIPLES OF CONSTRUCTION HS1651

GRADE 9, 10, 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT School Exam

Basic Principles of Construction is a full year course that introduces students to the field of construction and familiarizes them with building codes and safe material handling. The course provides thorough, up-to-date coverage of the core areas that are necessary for success in the construction field. Students will learn about print reading, safety, and common tools as well as professional skills for the construction field related to work ethic and communication. This course will culminate with a written local exam. Students are encouraged to register and pay for the national online certification exam. Successful completion of the course and a passing score on the national online certification exam will result in students earning a nationally recognized certificate that demonstrates their knowledge.

CARPENTRY & MASONRY HS1657 (Available 2017-2018)

GRADE 10, 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT School Exam

PREREQUISITE: Basic Principles of Construction

Carpentry and Masonry is a full year course that builds on the Basics of Residential Construction course and covers the essentials of residential construction carpentry. Student will learn about tools and materials, rough carpentry and exterior and interior finish carpentry ensuring professional success on any jobsite. Student will also learn about residential masonry construction procedures as well as current building and construction industry safety regulations. This course will culminate with a written local exam. Students are encouraged to register and pay for the national online certification exam. Successful completion of the course and a passing score on the national online certification exam will result in students earning a nationally recognized certificate that demonstrates their knowledge.

PLUMBING & HVAC HS1658 (Available 2017-2018)

GRADE 10, 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT School Exam

PREREQUISITE: Basic Principles of Construction

Plumbing and HVAC is a full year course that builds on the Basics of Residential Construction course and covers the essentials of residential plumbing and ventilation. In the plumbing portion of the course student will learn a step-by-step approach to residential plumbing installations. Topics that will be covered related to plumbing include tools of the trade, proper safety measures, code requirements, installation of common fixtures and troubleshooting techniques. Successful completion of the course and a passing score on the end of year exam will result in a student earning a nationally recognized certificate that demonstrates their knowledge. The HVAC portion of the course covers the installation, startup and service of residential air conditioning and heating systems. Topics that will be covered related to HVAC include matter, energy, heat and the basics of refrigeration, the servicing of oil, gas, electric and geothermal heating systems, boilers, hydronic heating and radiant heating. This course will culminate with a written local exam. Students are encouraged to register and pay for the national online certification exam. Successful completion of the

course and a passing score on the national online certification exam will result in students earning a nationally recognized certificate that demonstrates their knowledge.

ELECTRICAL PRINCIPLES & HOUSE WIRING HS1669 (Available 2017-2018)

GRADE 10, 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT School Exam

PREREQUISITE: Basic Principles of Construction

Electrical Principles & House Wiring is a full year course that builds on the Basics of Residential Construction course and covers all areas of residential wiring that are required of an entry-level electrician. Topics included are all areas of preparing and planning a job, service entrances and equipment, rough-in and trim-out, and maintaining/troubleshooting a residential electrical wiring system. This course will culminate with a written local exam. Students are encouraged to register and pay for the national online certification exam. Successful completion of the course and a passing score on the national online certification exam will result in students earning a nationally recognized certificate that demonstrates their knowledge.

MACHINING & METAL FABRICATION HS1678

GRADE 10, 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT School Exam

Machining & Metals Fabrication is a full year introductory course that explores the topic of machining and metals fabrication. The course provides students with an overview of the tools, materials techniques, and organizational skills needed for trades involving metals. Students will be introduced to precision machining techniques as well as measuring. This course will culminate with a written local exam. Students are encouraged to register and pay for the national online certification exam. Successful completion of the course and a passing score on the national online certification exam will result in students earning a nationally recognized certificate that demonstrates their knowledge.

PRE-ENGINEERING STRAND

UHS/PLTW DDP (INTRODUCTION TO DESIGN AND DRAWING FOR PRODUCTION) HS1650

GRADE 9, 10, 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT End of Course Assessment & Project

Introduction to Design and Drawing for Production is a full year class that emphasizes the design and development process of a product and how a model of that product is produced, analyzed and evaluated. Various design applications will be explored and students will be introduced to possible career opportunities. This course is designed to develop students' problem solving skills, with emphasis placed upon the concept of developing a 3-D model or solid rendering of an object. Students will focus on the application of visualization processes and tools provided by modern, state-of-the-art computer hardware and software (AutoCAD with Inventor). This course culminates with a final project and an end of course assessment. Students who maintain an 85% average in this course and score at least a 6 on the PLTW end of course assessment are eligible to apply for 4 college credits from Rochester Institute of Technology (RIT). This course can fulfill the NYS requirements for 1 unit in Art or Music.

UHS/PLTW DIGITAL ELECTRONICS HS1653

GRADE 9, 10, 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT End of Course Assessment & Project

RECOMMENDED ACHIEVEMENT LEVELS: Successful completion of UHS/PLTW DDP and Algebra

Digital Electronics is a full year course that explores basic uses for circuit instrumentation like meters, oscilloscopes, and logic probes. Introductory circuit analysis, discrete electronic components, integrated circuits, and their applications in electronic circuits will be studied. High reliability soldering techniques are introduced. Students learn to build circuits in the laboratory and on computer simulations. Students will fabricate a practical application of digital electronics for a semester project. Because of the intrinsic math component of the course, completion of Algebra is strongly recommended. This course culminates with a final project and an end of course assessment. Students who maintain an 85% average in this course and score at least a 6 on the PLTW end of course assessment are eligible to apply for 4 college credits from Rochester Institute of Technology (RIT). This course may count for the third year of Science required for high school graduation.

UHS/PLTW PRINCIPLES OF ENGINEERING HS1654

GRADE 10, 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT End of Course Assessment & Project

RECOMMENDED ACHIEVEMENT LEVELS: Successful completion of UHS/PLTW DDP

Principles of Engineering is a full year course that explores various technology systems and manufacturing processes. Principles of Engineering is a project based course that helps students understand the field of engineering/engineering technology. Students will learn how engineers and technicians use math, science and technology in a problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change. This course culminates with a final project and an end of course assessment. Students who maintain an 85% average in this course and score at least a 6 on the PLTW end of course assessment are eligible to apply for 4 college credits from Rochester Institute of Technology (RIT). This course may count for the third year of Science required for high school graduation.

UHS/PLTW CIMS (COMPUTER INTEGRATED MANUFACTURING SYSTEMS) HS1680

GRADE 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT End of Course Assessment & Project

RECOMMENDED ACHIEVEMENT LEVELS: Successful completion of UHS/PLTW DDP

Computer Integrated Manufacturing Systems is a full year course that will enhance the computer modeling design skills developed in Design and Drawing for Production. Students will be presented with design problems that will require the use of Inventor to develop solutions to the problem. In addition, students will be asked to extend their knowledge of design by applying principles of robotics and automation to the creation of prototypes of three-dimensional designs. Students will be expected to communicate the process and results of their work through oral and written reports. This course culminates with a final project and an end of course assessment. Students who maintain an 85% average in this course and score at least a 6 on the PLTW end of course assessment are eligible to apply for 4 college credits from Rochester Institute of Technology (RIT).

UHS/PLTW CIVIL ENGINEERING & ARCHITECTURE HS1655

GRADE 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT End of Course Assessment & Project

RECOMMENDED ACHIEVEMENT LEVELS: Successful completion of UHS/PLTW DDP

Civil Engineering & Architecture is a full year course about various aspects of civil engineering and architecture. The course is structured to enable all students to have a variety of experiences that will provide an overview of both fields. The course provides freedom to the teacher and students to develop a property as a simulation or for students to model the real-world experiences that civil engineers and architects experience when developing property. Students will complete a long term project that involves the development of a local property site with application of what they learn to the design and development of this property. Students work in teams, exploring hands-on projects and activities to learn the characteristics of civil engineering and architecture. This course culminates with a final project and an end of course assessment. Students who maintain an 85% average in this course and score at least a 6 on the PLTW end of course assessment are eligible to apply for 4 college credits from Rochester Institute of Technology (RIT).

PLTW ENGINEERING DESIGN AND DEVELOPMENT HS1530

GRADE 12

CREDIT 1 Unit

FINAL ASSESSMENT School exam

Engineering Design and Development is a full year course that applies the principles developed in their preceding Project Lead The Way courses. Students will work in teams of two to four to design and construct the solution to an engineering problem. The problem may be selected from a database of engineering problems, be a recognized national challenge or be an original engineering problem identified by the team and approved by the teacher. The problems will involve a wide range of engineering applications. Each team will be responsible for delivering progress reports and making final presentations of their project to an outside review panel. The completed portfolio will be invaluable as the students apply to college. This course culminates with an engineering notebook and portfolio of the designed solution.

COMMUNICATION AND COMPUTER SCIENCE STRAND

COMMUNICATION SYSTEMS HS1659

GRADE 9, 10, 11, 12

CREDIT 1/2 Unit

FINAL ASSESSMENT Project

Communication Systems is a semester long introductory course in video production and computer designed graphics. Basic camcorder use and computer based video editing are covered. All aspects of video production are introduced: Lighting, camera work, editing, audio and special effects. This is a project based course. Students will produce videos and computer generated graphic projects each semester.

ADVANCED VIDEOGRAPHY AND TV BROADCASTING HS1661
GRADE 9, 10, 11, 12
CREDIT 1/2 Unit
FINAL ASSESSMENT Project

PREREQUISITE: Grade of at least 80% in Communication Systems
(Course offered Spring Semester only)

Advanced Videography and TV Broadcasting is a semester long advanced communication course focusing on Digital Video production and Television Broadcasting. This is a project based course with students creating a video project each marking period. Students will produce individual videos and group projects. Emphasis will be on projects for student portfolios.

INTRODUCTION TO ROBOTICS HS1679
GRADE 9
CREDIT 1/2 Unit
FINAL ASSESSMENT Portfolio

Robotics is a semester long course that introduces students to robotics and computer programming. Students will have the opportunity to apply the engineering design process by collaborating as a class to design a robot to complete a challenge. The topics covered by the course include computer programming, mechanics, and electronics. Students will submit an engineering design notebook and complete as a class in the FIRST Tech Challenge competition.

DRAWING AND VIDEO GAME DESIGN HS1522
GRADE 9, 10, 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Studio in Art or UHS/PLTW DDP

Drawing and Video Game Design is an introductory class designed to give students proficiency in game design and development. Students will learn about game design from the perspective of both the artist and the engineer. Students will create original computer art and will program all aspects of the game. Students are expected to design and create a working game each quarter.

INTRODUCTION TO COMPUTER SCIENCE HS1681
GRADES 9,10,11,12
CREDIT 1/2 Unit
FINAL ASSESSMENT School Exam

Introduction to Computer Science is a semester course that will cover a wide variety of fundamental topics. Students will be introduced to topics including abstraction, programming in multiple language environments, scalable game design, and computational thinking. This course will conclude with a school approved project.

ENGLISH

All students must take the NYS Regents Examination in English Language Arts (Common Core). Four credits in English are also required for all students. Students must enroll in 1 credit of English per year to be fully prescribed.

1 UNIT COURSES

ENGLISH 9 REGENTS	HS1106
GRADE	9
CREDIT	1 Unit
FINAL ASSESSMENT	School Exam

English 9 Regents course requires extensive reading outside of class, introduces students to the various genres and includes several classics. Students will complete papers for a variety of purposes and audiences. Vocabulary development and grammar skills will be stressed. English 9R will incorporate the New York State Common Core standards, and it will provide practice for the tasks that will be addressed on the Comprehensive English Regents examination. English 9R is a required course for all 9th grade students. Students will be required to complete cumulative exams at the end of the 1st and 2nd semesters.

ENGLISH 10 HONORS	HS1102
GRADE	10
CREDIT	1 Unit
FINAL ASSESSMENT	School Exam

PREREQUISITE: English 9 Regents

RECOMMENDED ACHIEVEMENT LEVELS: 90 or better for English 9 Regents course work and final exam.

English 10 Honors course is designed for highly motivated students who have a strong interest in reading, writing and critical analysis. Students will read complex literary and non-literary texts and develop the skills of close reading and textual analysis. They will also study the writing process and complete essays for a variety of purposes and audiences. Vocabulary development will be stressed. Students will be expected to work independently, and they must be responsible and capable of taking ownership of their learning. Students intending to enroll in AP or IB English classes in their 11th and 12th grade years should take this class. Students will be required to complete a summer reading and writing assignment. A comprehensive exam will be given at the end of the 1st and 2nd semesters.

ENGLISH 10 REGENTS	HS1101
GRADE	10
CREDIT	1 Unit
FINAL ASSESSMENT	School Exam

PREREQUISITE: English 9 Regents

English 10 Regents course concentrates on the mastery of a variety of composition forms, comprehension of literature, application of literary techniques, and extensive vocabulary development. This course will incorporate the New York State Common Core standards. Students will practice tasks that will be addressed on the Comprehensive English Regents examination, as well as complete an extensive historical fiction research project. Students are expected to assume a high degree of personal responsibility for their own learning outside of class. This class is for all students who have successfully completed English 9R. A comprehensive exam will be given at the end of the 1st and 2nd semesters.

ENGLISH 11 REGENTS	HS1105
GRADE	11
CREDIT	1 Unit
FINAL ASSESSMENT	NYS Regents

PREREQUISITE: English 10 Regents

English 11 Regents course concentrates on comprehensive skill development and refinement. The literature program stresses analysis of works by American writers. Students will develop a mature writing style, an extensive vocabulary, and independent study skills. Students will also read non-literary texts and gain experience with the rhetorical mode of

argumentation and persuasion. This course is for all students who have successfully completed an English 10 course. Students will spend considerable time at the end of the second semester reviewing for the NYS Regents Examination in English Language Arts (Common Core).

AP ENGLISH 11 LITERATURE AND COMPOSITION HS1103

GRADE 11
CREDIT 1 Unit
FINAL ASSESSMENT NYS Regents

RECOMMENDED ACHIEVEMENT LEVELS : 90 or better for English 10 Regents or English 10 Honors course work and final exam.

AP English 11 Literature and Composition is a rigorous course requiring extensive weekly outside reading and writing assignments. Throughout the course, students will engage in complex, critical analysis of American Literature. The course not only emphasizes preparation for the AP Literature exam, but also provides the foundations of college level literary research. Students will be expected to thoroughly research each assigned text, considering the text's social and historical influences, author biography, and critical response. At this level of interpretation, students will be expected to craft original thesis statements while also framing their written analysis in the larger context of published literary criticism. All their arguments must be well-supported, their research thoroughly documented, and their language artfully crafted. The course is designed for highly motivated students who have a strong interest in reading, writing and critical analysis. Students will be prepared for the required AP Literature exam given in May. Students will also be required to take the NYS Regents Examination in English Language Arts (Common Core).

AP ENGLISH 12 LANGUAGE AND COMPOSITION HS1104

GRADE 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: English 11 Regents or AP English 11

RECOMMENDED ACHIEVEMENT LEVELS: 90 or better for English 11 Regents or AP English 11 course work and English Regents exam.

AP English 12 Language and Composition course is designed to prepare students for the rigors of college reading and writing. Students will read literary and non-literary texts and hone their critical and analytical skills. Students will examine how language is employed for specific purposes within specific contexts, and they will become informed consumers of information. Students will also study the writing process and gain experience with the various rhetorical modes: narration, description, exposition and argumentation/persuasion. Additional course requirements include extensive outside reading, writing and research. The course is designed for highly motivated students who have a strong interest in reading, writing and critical analysis. Students will be prepared for the required AP Language and Composition exam given in May.

IB LANGUAGE AND LITERATURE HL YEAR 1 IB1130

GRADE 11
CREDIT 1 Unit
FINAL ASSESSMENT NYS Regents

IB Language and Literature HL is the first course in a two-year program of advanced English studies. The course examines how language develops in specific cultural contexts, how it impacts on the world, and how language shapes both individual and group identity. Students will read literary and non-literary texts in order to develop the skills of close reading and textual analysis. Helping students to focus closely on the language of texts they study and to become aware of the role of each text's wider context in shaping its meaning is central to the course. Emphasis will also be placed on the writing process, and students will have the opportunity to complete essays of considerable depth and breadth. This course is designed for highly motivated students who have a strong interest in reading, writing and critical analysis. Students will take the NYS Regents Examination in English Language Arts (Common Core) in June. Students will be required to complete a summer reading/writing assignment.

IB LANGUAGE AND LITERATURE HL YEAR 2	IB1131
GRADE	12
CREDIT	1Unit
FINAL ASSESSMENT	School Exam

IB Language and Literature HL is the second course in a two-year program of advanced English studies. The course examines the way language is used in the media (newspapers, magazines, internet and film). The course also includes the compulsory study of a translated text which will encourage students to reflect on their own cultural assumptions. Students will read literary and non-literary texts in order to further develop their close reading skills. As in the previous year, students will have multiple opportunities to hone their writing skills. Argumentation and persuasion—a key rhetorical mode for college writing—will be emphasized. This course is designed for highly motivated students who have a strong interest in reading, writing and critical analysis. The curriculum will prepare students for the IB assessments. Students will be required to complete a summer reading/writing assignment.

1/2 UNIT COURSES

ALL FALL ENGLISH COURSES WILL SPEND TIME WORKING ON WRITING APPLICATION ESSAYS

CHS COLLEGE COMPOSITION	HS1126	(College # ENG 123)
GRADE	12	
CREDIT	1/2 Unit	
FINAL ASSESSMENT	School Exam	

PREREQUISITE: English 11 Regents or AP English 11 and a score of 75 or better on the English Regents Exam. CHS College Composition is a semester course that is designed to prepare seniors for the types of writing they will encounter in 2 or 4 year colleges. Students will study the writing process and participate in a writing workshop that includes conferencing, revising and editing. Writing assignments will allow students to gain experience with the various rhetorical modes: narration, description, exposition and argumentation/persuasion. Students will also read model essays written by students and professional writers. Students who plan on enrolling in a 2 or 4 year college should take this course. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 3 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

CHS COLLEGE LITERATURE AND WRITING	HS1120	(College # ENG 124)
GRADE	12	
CREDIT	1/2 Unit	
FINAL ASSESSMENT	School Exam	

PREREQUISITE: Successful completion of CHS College Composition with a grade of 75 or higher. CHS College Literature and Writing is a semester course that builds upon the writing techniques introduced in College Composition. In addition, students are encouraged to use writing to explore the ways in which literature functions as an art form. Students will survey various writers and genres to understand and explore the ways that these artists use literary forms of expression and techniques. Students will also complete a critical research project. A comprehensive exam is administered at the end of the course. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 3 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

CHS PUBLIC SPEAKING	HS1123	(College # COM 105)
GRADE	12	
CREDIT	1/2 Unit	
FINAL ASSESSMENT	School Exam	

PREREQUISITE: English 11 or AP English 11. CHS Public Speaking is a college-level semester course that is designed to help students prepare and deliver powerful speeches that leave a lasting impression. Emphasis is on ethical and rhetorical reasoning, research, preparation, delivery,

and evaluation of informative, persuasive and special occasion public speaking. Students will explore the specific verbal and nonverbal public speaking techniques that master speakers use to create strong impressions, persuade, and inspire their audiences to act. The course employs a traditional text and other readings, as well as experience model speeches to guide students through topic selection, organization, language, and delivery. Working independently and with peer groups, students who wish to improve their speaking skills will be actively involved in every step of the process of public speaking preparation and execution. Much of class time will be spent preparing formal outlines in preparation for speech presentations. Assessments include traditional written content-based quizzes, formal speeches (including, but not limited to informative, persuasive, and demonstration), brief skill-building speeches, speech analyses, and both teacher and peer evaluations. Consistent attendance and regular presentations are necessary for success in this course. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 3 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

EXPRESSIVE WRITING HS1108
GRADE 11,12
CREDIT 1/2 Unit
FINAL ASSESSMENT Final Project

Expressive Writing is a semester course that is designed to encourage self-expression through various forms of writing. Students will study well-written examples of journals, creative essays, poetry and fiction. They will study the writing process, with an emphasis on revision. Students will workshop their writing and be held accountable for the feedback they provide others. Ultimately, students will create a portfolio of their work for the class. The class should be taken by those students interested in the art of writing.

FANTASY & MYTHOLOGY IN LITERATURE HS1119
GRADE 11, 12
CREDIT 1/2 Unit
FINAL ASSESSMENT Final Project

Fantasy and Mythology in Literature is a semester course that is designed to examine classical and modern myths and fantasy literature. Students will learn to identify the themes, archetypes, and patterns within this unique and interesting genre. Emphasis will be placed on reading, writing and class discussion. Students who are interested in this genre and enjoy reading should take this class. Students will complete a research project on a myth of their choice, and they will read 3 full-length fantasy novels.

MYSTERIES HS1116
GRADE 11, 12
CREDIT 1/2 Unit
FINAL ASSESSMENT Final Project

Mysteries is a semester course that is designed to give students the opportunity to explore and enjoy the mystery genre. Students will read and discuss the works and techniques of famous mystery writers. Also, students will learn about the plot development and themes commonly used in mystery writing. Students will write their own mystery, using the techniques perfected by professional mystery writers. Students who enjoy reading and have a strong interest in the mystery genre should take this course. The students in this course will be assessed using various methods such as reading quizzes and tests, class discussions, journaling, writing assignments and group and independent projects. A cumulative comprehensive exam will be administered at the end of the semester.

SAT PREP MATH AND VERBAL HS2263
GRADE 11, 12
CREDIT 1/2 unit (Pass/Fail)

SAT Prep Math and Verbal is offered by both the Mathematics and English departments. Instruction is based on the individual areas tested on college entrance examinations. The instructors will use review books, practice tests and the school's computer resources.

SCIENCE FICTION HS1122
GRADE 11, 12
CREDIT 1/2 Unit
FINAL ASSESSMENT Final Project

Science Fiction is a semester course that is designed to survey the evolution of science fiction. Students will read multiple novels and short stories covering such topics as genetics, space exploration, artificial intelligence, alien life and time travel. Students will be expected to demonstrate a critical analysis of the works studied through discussion and writing. Emphasis will be placed on how science fiction facilitates social criticism. This class is designed for students who are genuinely interested in the themes of science fiction. The class will culminate in an assessment that requires students to demonstrate an in-depth understanding of the genre.

SHORT STORIES HS1115
GRADE 11, 12
CREDIT 1/2 Unit
FINAL ASSESSMENT School Exam

Short Stories is a semester course that is designed to introduce the genre of short fiction and develop an understanding of the basic elements of the craft. Students will read a variety of short stories surveying different writing styles and literary techniques. In addition, the class will pay close attention to the meaning(s) of each story via class discussion and written responses. Students will be required to keep a reading response journal for the course. Students who enjoy reading short works of fiction should enroll in this course. A comprehensive final exam will be given at the end of the course.

SPORTS LITERATURE HS1117
GRADE 11, 12
CREDIT 1/2 Unit
FINAL ASSESSMENT Final Project

Sports Literature is a semester course that examines the functions and purposes of sports in our society. Students will explore the pros and cons of identifying oneself primarily as an athlete; they will examine how a sports team can influence and reflect the history, politics, values, stereotypes, and expectations of a society. Students will read a variety of fiction and non-fiction, news and magazine articles, and short stories. Writing assignments, including journals and longer analytical responses to the readings, are required. Students who enjoy reading and are interested in sports and/or journalism should take this course. Tests and quizzes on the readings are given regularly, and students will be graded on their papers and journal writing as well.

FINE AND PERFORMING ARTS – VISUAL ARTS

Satisfactory completion of one credit in Studio in Art may be used to meet the one credit in Art or Music required of all students to meet graduation requirements as prescribed by the NYS Education Department. Students may substitute a 5-unit sequence in Art for the Foreign Language requirement of a Regents Diploma with Advanced Designation.

STUDIO IN ART	HS1500
GRADE	9, 10, 11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	School Exam

Studio in Art is an introductory course that will allow students to explore and gain knowledge in a variety of different media throughout the school year. Basic principles, concepts, skills, and techniques will be introduced in preparation for upcoming projects. Drawing, painting, printmaking, ceramics, sculpture, and paper making are some of the topics that will be covered in the full year course. This course is REQUIRED for all students for a sequence in Art and is a prerequisite course to any other art course offered. In addition, it is also recommended for students who wish to begin their education with a general art experience.

CHS GRAPHIC DESIGN	HS1558	(College # ART 222)
GRADE	10, 11, 12	
CREDIT	1/2 Unit	
FINAL ASSESSMENT	School Exam	

PREREQUISITE: Studio in Art

Graphic Design is a semester 2D media course emphasizes the design elements of visual communication. Students will explore the fundamentals of layout, typography, design, photography and illustration. The project design course will expand students' media and design literacy. Students will create professional computer generated graphic designs using industry standard software, Adobe Illustrator and Photoshop. Eligible students will complete an application and submit payment and Certificate of Residency to the guidance office. Upon successful completion of the course with a C or better students will receive 3 credits from SUNY Adirondack.

AP ART PORTFOLIO	HS1504
GRADE	11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	Portfolio

PREREQUISITES: Studio in Art, 90 % or above in Drawing and Painting I, teacher recommendation.

AP Art Portfolio is a two year course which begins junior year. Students learn to create original 2 -dimensional artwork using advanced skills and techniques based on their personal interests. AP Art Portfolio is designed for students who are seriously interested in pursuing a higher level of enrichment in the arts and will be expected to spend significant time working outside of the classroom.

DRAWING AND PAINTING I	HS1514
GRADE	9, 10, 11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	Final Assessment

PREREQUISITE: Studio in Art

Drawing and Painting I is a foundation 2-dimensional course in drawing and painting. Students will explore a variety of materials and techniques, including pencil, charcoal, pastels, pen and ink, water colors, and acrylics. Students will be encouraged to think with imagination and originality. Emphasis will be placed on acquiring and improving observational drawing and painting skills. Students should maintain a portfolio for their work to take with them if they progress to Drawing and Painting II.

CHS DRAWING AND PAINTING II HS 1515 (College # ART 128)

GRADE 10, 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT Project Based

PREREQUISITE: Studio in Art, Drawing and Painting I

CHS Drawing and Painting II is an advanced 2-dimensional course and is a continuation of Drawing and Painting I. Students will explore a variety of materials and techniques with an in- depth focus on the elements of art and principles of design. Emphasis will be placed on further development of observational drawing and painting skills in addition to expanding those skills into original works of art. Students should maintain a portfolio of their work should they progress to AP Art Portfolio. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 3 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

PRINTMAKING –PRINTMEDIA HS1520

GRADE 10, 11, 12

CREDIT 1/2 Unit

FINAL ASSESSMENT Project

PREREQUISITE: Drawing and Painting I

Printmaking or Print-media will enable the student to recognize the major printing and layout techniques as well as traditional techniques for the production and communication of ideas. Print-media is a semester long class with a pre-requisite of the student's successful completion of Drawing & Painting 1. Students are expected to have and use a sketchbook throughout the duration of the class. Students will be guided through a scaffolding program which includes historical, cultural and conceptual aspects of printmaking. Basic elements of Art and principles of design will be stressed along with an overview of a wide range of techniques with a closer introduction to four: Monoprint, Reduction, Collagraph, and Stencil. Class activities are project based and give students an opportunity to effectively experiment with a variety of materials and practice art fundamentals while learning technical skills in Printmaking.

In order to succeed in this class, students must meet the required criteria given for all assignments, be prepared to question and critique their own work as well as the work of other artists. Upon completion of this course, students will have completed the following:

- Develop vocabulary of printmaking terms and techniques.
- Develop an understanding of the principles of design and composition in relation to the printmaking process
- Organize printing procedures in a logical/ sequential manner.
- Compare and contrast printing techniques.
- Develop critique criteria and words in printmaking techniques.

STUDIO IN CERAMICS HS1508

GRADE 9,10,11,12

CREDIT 1 Unit

FINAL ASSESSMENT: School Exam/Project

Studio in Ceramics is an elective course which provides an opportunity to explore hand-building, wheel throwing, sculpture, and glazing techniques. Skills, concepts and elements related to clay will be introduced in preparation for all projects and assessments. Students will incorporate the relationship between form and function into sculptural and functional applications.

CHS PHOTOGRAPHY HS1552 (College # ART 104)

GRADE 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT: Final Assessment

PREREQUISITE: Studio in Art

Introduction to Photography is an introductory course designed to give students proficiency in the creative and technical possibilities of photography. Students learn the fundamentals of camera operation and imaging software to produce effective photographs. The course covers the elements of composition, historical aspects of photography and photography as a means of personal expression and a form of communication. Digital single lens reflex cameras are

provided for student use in class. Students will also work with 35 mm cameras, film development, enlarging and printing in the darkroom. Students are responsible for purchasing 35 mm black and white film (Ilford or Kodak) and photo paper. Eligible students will complete an application and submit payment and Certificate of Residency to the guidance office. Upon successful completion of the course with a C or better students will receive 3 credits from SUNY Adirondack.

DRAWING AND VIDEO GAME DESIGN HS1522

GRADE 9, 10, 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT School Exam

PREREQUISITE: Studio in Art or Drawing and UHS/PLTW DDP

Drawing and Video Game Design is an introductory class designed to give students proficiency in game design and development. Students will learn about game design from the perspective of both the artist and the engineer. Students will create original computer art and will program all aspects of the game. Students are expected to design and create a working game each quarter.

STUDIO IN SCULPTURE HS1523

GRADE 10, 11, 12

CREDIT 1/2 Unit

FINAL ASSESSMENT Final Project

PREREQUISITE Studio in Art

Studio in Sculpture is a course that will allow students to explore and gain knowledge in a variety of sculptural areas throughout the semester. An emphasis on form and function will be incorporated into both abstract and utilitarian sculptural pieces. Basic principles, concepts, skills, and techniques will be introduced in preparation for upcoming projects. Paper, Clay, foam, wire, plaster and other various mixed media are some of the materials that will be worked with in the half year course.

IB VISUAL ARTS SL/HL, YEAR 1 IB1550/IB1554

GRADE 11

CREDIT 1 Unit

FINAL ASSESSMENT Final grade will be a combination of formal portfolio of artwork and the Visual Arts Investigative workbook

PREREQUISITE: Successful completion Drawing & Painting I

IB Visual Arts SL/HL is an advanced level art course that will allow students to develop a comprehensive portfolio of student work. Students can expect to work with a variety of artistic mediums including, drawing, painting, printmaking, mixed media, digital media and sculpture. This work will showcase and relate to many forms of art in their many social, cultural and historical contexts, while encouraging a global view of the art world around them. In addition, students will enhance their study and creation of art through the research and writing of art history.

Student growth will also be evident through a detailed use of the Visual Arts Investigative Workbook. This workbook will serve as a personal record of knowledge and growth as students will develop their ideas, techniques, visual organization, and most importantly a written record of their self reflection. Student work will conclude with an external review of their well developed portfolio of artwork, Investigative Workbook and a final interview with an IB examiner. In this interview, students can expect to fully explain the development of their inspiration, ideas, process and final work.

IB VISUAL ARTS SL/HL, YEAR 2 IB1551/IB1555

GRADE 12

CREDIT 1 Unit

FINAL ASSESSMENT Final grade will be a combination of formal portfolio of artwork and the Visual Arts Investigative workbook

PREREQUISITE: Successful completion of IB Visual Arts, year 1.

IB Visual Arts SL/HL is the second year of IB Visual Arts and will allow students to continue higher level development of a competitive portfolio of advanced student artwork. Students can expect in depth work with a variety of artistic mediums and look to refine their ideas and processes from their work in the SL course. Students will continue to showcase and relate to many forms of art in numerous social, cultural and historical contexts, while encouraging a global view of the art world around them. In addition, students will continue to enhance their study and creation of art through the research and writing of art history.

Student growth will advance from year 1 and be evident through a detailed use of the Visual Arts Investigative Workbook. This workbook will serve as a personal record of knowledge and growth as students will develop their ideas, techniques,

visual organization, and most importantly a written record of their self reflection. Student work will conclude with an external review of their well developed portfolio of artwork, Investigative Workbook and a final interview with an IB examiner. In this interview, students can expect to fully explain the development of their inspiration, ideas, process and final work.

FINE AND PERFORMING ARTS – MUSIC

Satisfactory completion of one credit in Musical Performance or Music in Our Lives may be used to meet the one credit of Art or Music required of all students to meet graduation requirements as prescribed by the NYS Education Department. Students may substitute a 5-unit sequence in music which must include Music In Our Lives and Music Fundamentals for the Foreign Language requirement of the Regents Diploma with Advanced Designation.

MUSIC IN OUR LIVES	HS1526
GRADE	9, 10, 11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	School Exam

Music In Our Lives is a high school level general music course. It is designed for students who have a strong interest in many aspects of music but may not have music reading skills. It is taught with a hands-on approach in which students learn by doing and stresses the development of listening skills. The primary objectives are learning to appreciate multiple genres of music; listen intelligently to music performed by a variety of musical ensembles in both western and non-western styles; to perform music at a recreational level on a social, electronic, or orchestral instrument or voice; to compose, organize, or arrange music in some medium; to use basic library and computer resources for research; and to plan, develop, and present an in-depth special interest project.

CONCERT BAND	HS1509
GRADE	8, 9
CREDIT	1 Unit
FINAL ASSESSMENT	School Exam and Portfolio Assessment

Concert Band is a performance based course that is designed for students who have ongoing instruction on traditional Band instruments. These instruments are Flute, Oboe, Clarinet, Bassoon, Saxophone, Trumpet, French Horn, Trombone, Baritone Tuba and Percussion. Students will learn music history, theory and practice through performance. The student must have three years of prior instruction on the instrument as well as the ability to read music notation. Participation in concerts and other performances throughout the year is required. Students are expected to attend one pull-out lesson a week, or take private lessons. Additional credit may be earned with participation in Jazz Band and Chorus, which will meet once a week out of the Band rehearsal. Students will be graded on performance and portfolio assessment.

WIND ENSEMBLE	HS1525
GRADE	10, 11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	School Exam and Portfolio Assessment

PREREQUISITE: One Year of Concert Band

Wind Ensemble is a performance based course that is designed for students who have had ongoing instruction on traditional Band instruments and wish to challenge themselves further with NYSSMA Level V and VI literature. Students will learn music history, theory and practice through performance. The student must have three years of prior instruction on the instrument as well as the ability to read music notation. Participation in concerts and other performances throughout the year is required. Students are expected to attend one pull-out lesson a week, or take private lessons. Additional credit may be earned with participation in Jazz Band and Choir, which will meet once a week out of the Wind Ensemble rehearsal.

CHS MUSIC FUNDAMENTALS I	HS1553	(College # MUS 147)
GRADE	9, 10, 11, 12	
CREDIT	1 unit	
FINAL ASSESSMENT	School Exam, Performance Journal	

PREREQUISITE: Musical training, experience in music performance

CHS Music Fundamentals has the learning of Music Theory as the foundation, and is designed to increase understanding of music in the western and world cultures. Students who are looking to further their knowledge of music and/or study music at the college level will benefit from this course of study. Students will be involved in studying music theory, composition, and music history. Students are expected to enroll in the SCCC College in the High School Program (CHS)

with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 3 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

MUSIC FUNDAMENTALS II	HS1536
GRADE	11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	School Exam, Performance Journal
PREREQUISITE:	Music Fundamentals I

Music Fundamentals II is designed to increase understanding of music in the western and world cultures. Students who are looking to further their knowledge of music and/or study music at the college level will benefit from this course of study. Students will be involved in studying music theory, composition, and music history as well as preparing for solo and group performances.

Students will be responsible for projects based on composition, comparison of musical pieces from the western culture and those of other cultures such as Eastern/Asian, and African/South American. Discussions of how music affects our world; and how our world is affected by music will be a part of this class.

All students will be expected to keep a running log of their experiences in music, including daily involvement and performances.

Students in this course will begin to prepare either a Group Performance or Solo Performance, and Creating, which will involve composition. It is suggested that students in the solo performance component have private instruction on voice or their chosen instrument. Students in the group performance component of this class must be enrolled in a school performance group. Assessments for this course will be based on the projects assigned, and a local final exam.

IB MUSIC SL/HL YEAR 1	IB1563/IB1553
GRADE	11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	School Exam, Performance Journal
PREREQUISITE:	Music Fundamentals I

IB Music SL/HL is designed to increase understanding of music in the western and world cultures. Students who are looking to further their knowledge of music and/or study music at the college level will benefit from this course of study. Students will be involved in studying music theory, composition, and music history as well as preparing for solo and group performances.

Students will be responsible for projects based on composition, comparison of musical pieces from the western culture and those of other cultures such as Eastern/Asian, and African/ South American. Projects comparing and contrasting musical pieces from different cultures are preparation for the IB External Examination, which takes place in May of the second year of IB Music. Discussions of how music affects our world; and how our world is affected by music will be a big part of this class.

All students will be expected to keep a running log of their experiences in music, including daily involvement and performances.

Students in the first year of this two year course will begin to prepare for the Internal Assessment of the IB Exam - one of either Group Performance or Solo Performance, and Creating, which will involve composition. It is suggested that students in the solo performance component have private instruction on voice or their chosen instrument. Students in the group performance component of this class must be enrolled in a school performance group. Assessments for year 1 will be based on the projects assigned, and a local final exam.

IB MUSIC SL/HL YEAR 2 IB1564/IB1556
GRADE 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam, Final Project and Performance Journal
PREREQUISITE: IB Music SL/HL year 1 or Music Fundamentals II.

IB Music SL/HL is the second year of IB Music and is designed to prepare students for the Internal and External Assessments. Further study of Music Theory and Music History will take place, as well as more intense study of world music. This course will offer in-depth, college level analysis of western classical and non-western world music.

The following IB requirements will be met: Musical Investigation (a written work of 1,200 to 1,500 words), performance requirements - solo performance for HL, or solo or group performance for SL and creating- composition, and preparation for the exam in May.

CONCERT CHORUS HS1535
GRADE 8, 9
CREDIT 1 Unit
FINAL ASSESSMENT Performance, Sight Singing, and Written Evaluation

Concert Chorus is a performance based course that is designed for students that want to sing in an ensemble. Basic sight reading, vocal technique, basic music theory skills are studied. Students are evaluated on sight-reading and singing every quarter. Willingness to participate in performances is needed. Participating in concerts is part of the course requirement. Choir is a performance based course that is designed for students who have ongoing instruction in choral singing and want to sing in a NYSSMA Level IV-VI ensemble. Strong sight reading skills, vocal technique, and basic music theory skills are required. Students are evaluated on sight-reading and singing skills for membership in Choir. Students are evaluated on sight-reading and singing every quarter. Participating in concerts is part of the course requirement. Basic pitch matching is required. For students with no choral experience, they will need to meet with director prior to enrolling.

CHOIR HS1510
GRADE 10, 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT Performance, Sight Singing, and Written Evaluation

PREREQUISITE: One year Concert Chorus

Choir is a performance based course that is designed for students who have ongoing instruction in choral singing and want to sing in a NYSSMA Level IV-VI ensemble. Strong sight reading skills, vocal technique, and basic music theory skills are required. Students are evaluated on sight-reading and singing skills for membership in Choir. Students are evaluated on sight-reading and singing every quarter. Participating in concerts is part of the course requirement.

BALLSTON SPA LIGHTS HS1506
GRADE 10, 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT Performance, Attendance, Sight Singing, Solo Voice Evaluation and Journal
PREREQUISITE: One Year of High School Chorus and Audition

Ballston Spa Lights is a performance based course designed for students who have had ongoing instruction in choral singing and want to sing in a song and dance ensemble. Strong sight reading skills, vocal technique, basic music theory skills, and basic dance experience is required. Students are evaluated on sight-reading, singing skills and movement. Students are evaluated on sight-reading and singing every quarter. Participating in concerts and community events is part of the course requirement. In addition, students will log their growth in a journal that will be collected and graded each quarter.

APPLIED MUSIC HS1502
GRADE 9, 10, 11, 12
CREDIT 1/2 Unit (Pass/Fail)
FINAL ASSESSMENT Performance assessment based on materials studied throughout the year.
PREREQUISITE: One full year of private study on the instrument/voice and approval of the music coordinator.

Applied Music is for students who study an instrument or voice. Students in Applied Music do not have to participate in a school performing group. Private study must consist of a minimum lesson of 30 minutes outside the school day, 36 weeks of the school year. Students will provide a signed form for each marking period showing materials that are being studied. These forms will be provided to the student the first week of the school year by the music coordinator.

CONCERT ORCHESTRA	HS1521
GRADE	8, 9
CREDIT	1 Unit
FINAL ASSESSMENT	School Exam and Portfolio Assessment

Concert Orchestra is a performance based course that is designed for students who have had ongoing instruction on traditional orchestra instruments. Students will learn music history, theory and practice through performance. The student must have three years of prior instruction on the instrument as well as the ability to read music notation. Participation in concerts and other performances throughout the year is required. Students are expected to attend one pull-out lesson a week, or take private lessons. Additional credit may be earned with participation in Jazz Band and Chorus, which will meet once a week out of the Concert Orchestra rehearsal. Students will be graded on performance and portfolio assessment.

SYMPHONIC ORCHESTRA	HS1551
GRADE	10, 11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	School Exam and Portfolio Assessment

PREREQUISITE: One Year of Concert Orchestra

Symphonic Orchestra is a performance based course that is designed for students who have had ongoing instruction on traditional orchestra instruments and wish to challenge themselves further with NYSSMA Level IV and V literature. Students will learn music history, theory and practice through performance. The student must have three years of prior instruction on the instrument as well as the ability to read music notation. Participation in concerts and other performances throughout the year is required. Students are expected to attend one pull-out lesson a week, or take private lessons. Additional credit may be earned with participation in Jazz Band and Chorus, which will meet once a week out of the Symphonic Orchestra rehearsal. Students will be graded on performance and portfolio assessment.

FINE AND PERFORMING ARTS – THEATRE

Successful completion of Introduction to Theatre may be used to meet the one credit in Art or Music required of all students to meet the graduation requirements by the NYS Education Department. Students completing a 5-unit sequence in Fine Arts may use Introduction to Theatre as part of that sequence. Students may substitute a 5-unit sequence in Fine Arts for the Foreign Language requirement of a Regents Diploma with Advanced Designation.

**It's important to remember that your communication skills will help you throughout your entire life. Take the time now to perfect them. Taking a theatre course is helpful in developing these communication skills through verbal language as well body language. You can learn how to best present yourself and express yourself!*

INTRODUCTION TO THEATRE	HS1524
GRADE	9, 10, 11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	Performance Based Final Project

Introduction to Theatre is a full year course that will include study and practical application of performance skills and character development, as well as study of scenic, costume, and lighting design. Directing, stage managing and acting will also be studied and speakers in many of these fields will act as resources for skill development. Dramatic criticism and playwriting will also play a major role in this course. (This course may potentially become a CHS course through SCCC)

INTRODUCTION TO ACTING	HS1501
GRADE	11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	Performance Based Final Project

PREREQUISITE: Introduction to Theatre

Introduction to Acting is a full year course that will explore the many methods of acting. Students will refine communication skills through verbal Language as well as body language. History of acting and different types of literature are included in this performance-based class. (This course may potentially become a CHS course through SCCC)

IB THEATER ARTS SL or HL	IB1558/IB1561/IB1559/IB1562
GRADE	11 and 12
CREDIT	1 Unit Per Year
FINAL ASSESSMENT	Year 1 – Performance Portfolio Year 2 – IB Assessment

IB Theater Arts SL or HL is a two-year course, which, at the discretion of the IB learner, can be taken at the Standard Level (SL) or the Higher Level (HL) provides a balance of practical theatre experience and analysis of theatre literature and history. Students will be involved in performance technique workshops as well as stage craft workshops. Literature and history study will include an exciting array of international plays in their historical context.

At Standard Level, students will complete an independent project that is largely self-motivated, directed and practical in nature; prepare an independent project portfolio in 2000 words that demonstrates the dynamic stages of a creative process; present a 20 minute oral theatre performance and production presentation based on research of two theatre traditions; and write a 1,500-1750 word research investigation paper discussing a specific aspect of a theatre piece.

At Higher Level, students will complete an independent project that is largely self-motivated and directed and practical in nature; prepare an independent project portfolio in 3000 words that demonstrates and integrates research and practice of the dynamic stages of a creative process, present a 30 minute oral theatre performance and production presentation based on applied research of two theatre traditions; and write a 2,000-2,500 word research investigation paper discussing a specific aspect of a theatre piece. Students at HL are required to write a critique of the sources used in the research investigation. This class is designed for inquiring, open-minded, risk-taking, principled students interested in a balanced and reflective experience with theatre.

HEALTH

All students must earn ½ credit in Health Education to meet the New York State requirement for graduation.

HEALTH EDUCATION	HS1352
GRADE	10, 11, 12
CREDIT	1/2 Unit
FINAL ASSESSMENT	School Exam and Project

Health is a semester course that is required by New York State for High School graduation. The students will learn the knowledge necessary to be physically, mentally, and socially healthy, as well as the skills needed to create and maintain a healthy lifestyle. Students will take part in discussions and projects that encourage them to reflect on their own knowledge, attitudes and behaviors.

HEALTH EDUCATION ONLINE	HS1388
GRADE	10, 11, 12
CREDIT	1/2 Unit
FINAL ASSESSMENT	Project

Health is a semester course that is required by New York State for High School graduation. This online option is ideal for highly organized, conscientious, independent learners. The students will learn the knowledge necessary to be physically, mentally, and socially healthy, as well as the skills needed to create and maintain a healthy lifestyle. Students are expected to interact with one another utilizing online forums similar to the discussions held in the classroom.

BASIC PRINCIPLES OF NUTRITION	HS1387
GRADE	10, 11, 12
CREDIT	1/2 Unit
FINAL ASSESSMENT	Project

PREREQUISITE: Biology (Final average above 85) **AND** Health (Final average above 90)

Basic Principles of Nutrition is a semester science course that introduces the role of nutrition in health maintenance. Students will learn food sources, functions and the interrelationships of the six major nutrient categories, as well as, energy requirements and balance. It also includes the principles of nutrient needs throughout the life cycle and their application to nutritional assessment, menu planning and food preparation.

LANGUAGES OTHER THAN ENGLISH

All students must earn one unit of high school credit by either passing the second language final(Checkpoint A) exam at the end of grade 8 or successfully completing a ninth grade course of study for both a Local or Regents Diploma. For a Regents Diploma with Advanced Designation, two additional credits in foreign language plus a score of at least 65% on the level 3 Checkpoint B exam is required, or students may substitute a 5-unit sequence in Art, Music or Career Technical Education for the additional foreign language requirement.

FRENCH - LEVEL 1 HS1302
GRADE 9
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Below 65% on the 8th Grade Final or no previous language.

French 1 course is intended for students who did not achieve at least a 65 on the final exam at the end of grade 8 or students who have never studied a language before. In this course students will learn the basic vocabulary, idioms, and grammar structures found in checkpoint A of the NYS learning standards. Upon successful completion of French 1, students will earn one unit of Foreign Language credit required for graduation from high school.

FRENCH – LEVEL 2 HS1300
GRADE 9, 10, 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: 65% or better on the 8th grade Final Exam and teacher recommendation.

French 2 advances the student to the intermediate level of language acquisition. The study of grammar structures, vocabulary and idioms becomes more intensive in this course. The study of French culture and aspects of everyday life is continued. Students are expected to demonstrate proficiency in listening, speaking, reading and writing in order to progress to the next level.

CHS FRENCH – LEVEL 3 HS1315 (College # FRE 121/122)
GRADE 10, 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: French 2 and teacher recommendation.

CHS French 3 includes the study of grammar structures, vocabulary and idioms and progresses to a more sophisticated level. Emphasis is on conversation, compositions, authentic readings, written assignments and oral reports of more advanced content. The study of geography, culture and lifestyles of French speaking countries is continued. Students must demonstrate competency in listening, speaking, reading and writing skills in order to be successful on the local final (Checkpoint B) exam in June. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 6 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

UHS FRENCH 4 HS1303 (College # AFRE 221Y)
GRADE 11
CREDIT 1 unit
FINAL ASSESSMENT School Exam

PREREQUISITE: French 3 and teacher recommendation

UHS French 4 is the first 200-level college course that we offer through SUNY Albany. A major component of this class is to develop an awareness of the relationship between language and culture. The class provides for intense language acquisition through listening comprehension, reading comprehension, oral expression, written communication, and cultural understanding. UHS French 4 requires students to continue developing their communicative competence by

interacting orally and in writing in French. The majority of class will be conducted in French and students are expected to communicate in French most of the time. A variety of authentic texts from several French-speaking countries will be used and students will perform both individual and group work in order to build upon and improve communication skills. This course is designed for highly motivated students who have a strong background and interest in French. Eligible students will complete a UHS application and submit the tuition payment directly to SUNY Albany. The curriculum and grades are determined by the high school teacher. Upon receiving a final grade of "C" or better, students will be awarded 4 credits from SUNY Albany. All UHS French 4 students will be required to take the final exam at the end of the course.

IB FRENCH SL YEAR 1	IB1303	(College # AFRE 221Y)
GRADE	11	
CREDIT	1 Unit	
FINAL ASSESSMENT	School Exam/UHS	

PREREQUISITE: French 3

IB French 4 course is the first year of an intensive two-year course. This class is required for IB Diploma candidates who have chosen French as their Language B. This class may also be taken for UHS college credit. A major component of this class is to develop an awareness of the relationship between language and culture. The class provides for intense language acquisition through listening comprehension, reading comprehension, oral expression, written communication, and cultural understanding. Both IB and UHS French 4 require students to continue developing their communicative competence by interacting orally and in writing in French.

Class will be conducted entirely in French and students are expected to communicate in French at all times. A variety of authentic texts from several French-speaking countries will be used and students will perform both individual and group work in order to build upon and improve communication skills. This course is designed for highly motivated students who have a strong background and interest in French. Summer reading and writing assignments will be assigned for those planning to take this class. Eligible students will complete a UHS application and submit the tuition payment directly to SUNY Albany. The curriculum and grades are determined by the high school teacher. Upon receiving a final grade of "C" or better, students will be awarded 4 credits from SUNY Albany. UHS candidates will be required to take the UHS final exam in June of 11th grade.

UHS FRENCH 5	HS1304	(College # AFRE 222Y)
GRADE	12	
CREDIT	1 unit	
FINAL ASSESSMENT	School Exam	

PREREQUISITE: UHS French 4 and teacher recommendation

UHS French 5 is the second 200-level college course that we offer through SUNY Albany. This accelerated course is intended to refine skills practiced in UHS French 4. Students will work towards increasing listening and reading comprehension, oral expression, written communication, and cultural understanding. The majority of class will be conducted in French and students are expected to speak French most of the time. Students will work individually and in groups to analyze, debate, and discuss a variety of issues and authentic texts in French. This course is designed for highly motivated students who have a strong background and interest in French. Eligible students will complete a UHS application and submit the tuition payment directly to SUNY Albany. The curriculum and grades are determined by the high school teacher. Upon receiving a final grade of "C" or better, students will be awarded 4 credits from SUNY Albany. All UHS French 4 students will be required to take the final exam at the end of the course.

IB FRENCH SL YEAR 2	IB1304	(College # AFRE 222Y)
GRADE	12	
CREDIT	1 Unit	
FINAL ASSESSMENT	IB Assessments	

PREREQUISITE: IB or UHS French 4

IB French 5 SL course is the second part of the two year IB French course or year two of the UHS French Program. This rigorous, accelerated course is intended to refine skills practiced in IB / UHS French 4. Students will work towards increasing listening and reading comprehension, oral expression, written communication, and culture understanding. The class will be conducted entirely in French and students are expected to speak French at all times. Students will work individually and in groups to analyze, debate, and discuss a variety of issues and authentic texts in French. This course is designed for highly motivated students who have a strong background and interest in French. Summer reading and writing assignments will be assigned for those planning to take this class. IB candidates must take one (oral) internal

assessment and one (written) external assessment which will be given between January and April of 12th grade. Two additional external (written) assessments will take place in May of 12th grade. Eligible students will complete a UHS application and submit the tuition payment directly to SUNY Albany. The curriculum and grades are determined by the high school teacher. Upon receiving a final grade of “C” or better, students will be awarded 4 credits from SUNY Albany. UHS candidates will be required to take the UHS final exam in June of 12th grade.

SPANISH - LEVEL 1 HS1310
GRADE 9
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Below 65% on the 8th Grade Final or no previous language.

Spanish 1 course is intended for students who did not achieve at least a 65 on the final exam at the end of grade 8 or students who have never studied a language before. In this course students will learn the basic vocabulary, idioms, and grammar structures found in checkpoint A of the NYS learning standards. Upon successful completion of Spanish 1, students will earn one unit of Foreign Language credit required for graduation from high school.

SPANISH – LEVEL 2 HS1306
GRADE 9, 10, 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: 65% or better on the 8th grade Final Exam and teacher recommendation.

Spanish 2 advances the student to the intermediate level of language acquisition. The study of grammar structures, vocabulary and idioms becomes more intensive in this course. The study of Spanish culture and aspects of everyday life is continued. Students are expected to demonstrate proficiency in listening, speaking reading and writing in order to progress to the next level.

CHS SPANISH – LEVEL 3 HS1314 (CHS SPA 121/122)
GRADE 10, 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Spanish 2 and teacher recommendation.

CHS Spanish 3 is the third year of the study of grammar structures, vocabulary and idioms and progresses to a more sophisticated level. Emphasis is on conversation, compositions, authentic readings, written assignments and oral reports of more advanced content. The study of geography, culture and lifestyles of Spanish speaking countries is continued. Students must demonstrate competency in listening, speaking, reading and writing skills in order to be successful on the local final (Checkpoint B) exam in June. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 6 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

UHS SPANISH 4 HS1308 (College # ASPN 200)
GRADE 11
CREDIT 1 unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Spanish 3 and teacher recommendation

UHS Spanish 4 is the first 200-level college course that we offer through SUNY Albany. A major component of this class is to develop an awareness of the relationship between language and culture. The class provides for intense language acquisition through listening comprehension, reading comprehension, oral expression, written communication, and cultural understanding. UHS Spanish 4 requires students to continue developing their communicative competence by interacting orally and in writing in Spanish. The majority of class will be conducted in Spanish and students are expected to communicate in Spanish most of the time. A variety of authentic texts from several Spanish-speaking countries will be used and students will perform both individual and group work in order to build upon and improve communication skills. This course is designed for highly motivated students who have a strong background and interest in Spanish. Eligible students will complete a UHS application and submit the tuition payment directly to SUNY Albany. The curriculum and

grades are determined by the high school teacher. Upon receiving a final grade of “C” or better, students will be awarded 4 credits from SUNY Albany. All UHS Spanish 4 students will be required to take the final exam at the end of the course.

IB SPANISH SL YEAR 1	IB1308	(College # ASPN 200)
GRADE	11	
CREDIT	1 Unit	
FINAL ASSESSMENT	School Exam	

PREREQUISITE: Spanish 3

IB Spanish 4 SL is the first year of an intensive two-year course. This class is required for IB Diploma candidates who have chosen Spanish as their Language B. This class may also be taken for UHS college credit. A major component of this class is to develop an awareness of the relationship between language and culture. The class provides for intense language acquisition through listening comprehension, reading comprehension, oral expression, written communication, and cultural understanding. Both IB and UHS Spanish 4 require students to continue developing their communicative competence by interacting orally and in writing in Spanish. Class will be conducted entirely in Spanish and students are expected to communicate in Spanish at all times. A variety of authentic texts from several Spanish-speaking countries will be used and students will perform both individual and group work in order to build upon and improve communication skills. This course is designed for highly motivated students who have a strong background and interest in Spanish. Summer reading and writing assignments will be assigned for those planning to take this class. Eligible students will complete a UHS application and submit the tuition payment directly to SUNY Albany. The curriculum and grades are determined by the high school teacher. Upon receiving a final grade of “C” or better, students will be awarded 4 credits from SUNY Albany. UHS candidates will be required to take the UHS final exam in June of 11th grade.

UHS SPANISH 5	HS1309	(College # ASPN 201)
GRADE	12	
CREDIT	1 unit	
FINAL ASSESSMENT	School Exam	

PREREQUISITE: UHS Spanish 4 and teacher recommendation

UHS Spanish 5 is the second 200-level college course that we offer through SUNY Albany. This accelerated course is intended to refine skills practiced in UHS Spanish 4. Students will work towards increasing listening and reading comprehension, oral expression, written communication, and cultural understanding. The majority of class will be conducted in Spanish and students are expected to speak Spanish most of the time. Students will work individually and in groups to analyze, debate, and discuss a variety of issues and authentic texts in Spanish. This course is designed for highly motivated students who have a strong background and interest in Spanish. Eligible students will complete a UHS application and submit the tuition payment directly to SUNY Albany. The curriculum and grades are determined by the high school teacher. Upon receiving a final grade of “C” or better, students will be awarded 4 credits from SUNY Albany. All UHS Spanish 4 students will be required to take the final exam at the end of the course.

IB SPANISH SL YEAR 2	IB1309	(College # ASPN 201)
GRADE	12	
CREDIT	1 Unit	
FINAL ASSESSMENT	IB Assessments	

PREREQUISITE: IB or UHS Spanish 4

IB Spanish 5 SL is the second part of the two year IB Spanish course or year two of the UHS Spanish Program. This rigorous, accelerated course is intended to refine skills practiced in IB / UHS Spanish 4. Students will work towards increasing listening and reading comprehension, oral expression, written communication, and culture understanding. The class will be conducted entirely in Spanish and students are expected to speak Spanish at all times. Students will work individually and in groups to analyze, debate, and discuss a variety of issues and authentic texts in Spanish. This course is designed for highly motivated students who have a strong background and interest in Spanish. Summer reading and writing assignments will be assigned for those planning to take this class. IB candidates must take one internal (oral) assessment and one external (written) assessment which will be given between January and April of 12th grade. Two additional external assessments (written) will take place in May of 12th grade. Eligible students will complete a UHS application and submit the tuition payment directly to SUNY Albany. The curriculum and grades are determined by the high school teacher. Upon receiving a final grade of “C” or better, students will be awarded 4 credits from SUNY Albany. UHS candidates will be required to take the UHS final exam in June of 12th grade.

MATHEMATICS

All students must earn three credits in Mathematics to meet requirements for graduation with a Regents Diploma or Local Diploma. In addition, all students must take a New York State Regents exam in Math for a Regents Diploma and three Regents exams for a Regents Diploma with Advanced Designation.

INTRODUCTION TO ALGEBRA HS1724
GRADE 9,10,11,12
CREDIT 1 Unit
FINAL ASSESSMENT School exam
PREREQUISITE: Math 8

Introduction to Algebra is a full year course designed to help students who have traditionally struggled with mathematics and need additional time to master foundational skills before enrolling in Algebra. Students will study properties of real numbers, fractions, rational numbers, equations, and linear functions. This course will conclude with a school final exam. A TI-84 graphing calculator is required for this course.

ALGEBRA HS 1215
GRADE 9,10,11,12
CREDIT 1 Unit
FINAL ASSESSMENT Regents in Algebra (Common Core)

RECOMMENDED: Math 8 Grade Point Average of 75 % or higher or successful completion of Introduction to Algebra. Algebra is a full year course, including a weekly lab, to address the curriculum outlined by the Common Core State Standards. It is the study of functions specifically addressing the relationships between quantities and reasoning with equations and graphs. Students will study linear, quadratic, and exponential functions, and descriptive statistics. The final for this course is the Regents in Algebra (Common Core). A TI-84 graphing calculator is required for this course.

APPLIED GEOMETRY HS 1211
GRADES 10, 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam
PRE-REQUISITE: Algebra

Applied Geometry is a full year course following the Geometry curriculum at a slower pace. Students will explore triangle congruence, similarity, and properties of lines, triangles, quadrilaterals, circles, surface area, and volume given real world problems. Students will also be introduced to the writing of Euclidean and coordinate proofs based on logic and properties of geometric figures. This concludes in a school final. A TI-84 graphing calculator is required for this course.

GEOMETRY LAB HS 1212
GRADE 9, 10, 11
CREDIT 1 Unit
FINAL ASSESSMENT Regents in Geometry (Common Core)
PREREQUISITE: Algebra

Geometry Lab is a full year course and covers geometry curriculum that follows common core learning standards with additional time built into the schedule for practice and activities that will strengthen skills. Students will study concepts of geometry, problem solving, logical reasoning, proofs, and the integration of algebra and geometry with real life applications. This course will conclude with the Regents in Geometry (Common Core). A TI-84 graphing calculator is required for this course.

GEOMETRY HS 1210
GRADE 9, 10, 11
CREDIT 1 Unit
FINAL ASSESSMENT Regents in Geometry (Common Core)

PREREQUISITE: Pass Algebra with an average of 80% or higher

Geometry is a full year course covering geometry curriculum that follows common Core learning standards. The purpose is to offer a more complex study of geometric relationships. Students will learn logic, congruent and similar triangles, transformations, congruency, and similarity. Other topics include constructions, planar figures, and solid geometry. This course concludes with the Regents in Geometry (Common Core). A TI-84 graphing calculator is required for this course.

APPLICATIONS FOR MATHEMATICS HS 1723

GRADE 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT School Exam

PREREQUISITE: Applied Geometry

Applications for Mathematics is a full year course for students who have been traditionally challenged by math concepts. Students will review basic arithmetic and algebraic fundamentals through a survey of topics in finite mathematics and corresponding applications, including percents, area, perimeter, volume, logic, matrices, modular arithmetic, probability, statistics, and financial models. It can be used as a third or fourth credit for those who have completed Algebra. This course will conclude with a school exam.

CHS MATHEMATICAL TOPICS HS1726

(College # MAT 145)

GRADE 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT School Exam

PREREQUISITE: Geometry or Applied Geometry

CHS Mathematical Topics is a full year course designed to acquaint students with various areas of mathematics. Students will be exposed to a variety of topics including linear, exponential, and quadratic functions. Other topics include statistics and probability, geometric sequences, geometry concepts, graph theory and logic. This course will conclude with a school exam. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 3 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

CHS COLLEGE ALGEBRA HS1727

(College # MAT 148)

GRADE 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT School Exam

PREREQUISITE: Algebra and Geometry

CHS College Algebra is a full year course for students not ready to go on to Algebra 2 (HS 1221) who desire to begin their college pathway. Students will learn application and analysis of algebraic problems. Topics include linear, quadratic, absolute value, radical, rational, exponential, and logarithmic functions, with an emphasis on regression analysis and mathematical models. Also included in this course are the following topics: matrices, sequences, and series. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 3 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

ALGEBRA 2 HS 1219

GRADE 10, 11, 12

FINAL ASSESSMENT Regents in Algebra 2 (Common Core)

PREREQUISITE: Regents Algebra and Geometry. It is strongly recommended students entering this course earned an overall average of 85% or better in both prerequisite courses.

Algebra 2, a one year course following NYS common core learning standards, is the expanded study of functions that builds upon the functions studied in Algebra. Students will study polynomial, rational, radical, logarithmic, and trigonometric functions and will learn to draw inferences and conclusions from data (probability and statistics). Students will be expected to model real-life scenarios with mathematical functions, construct viable arguments, and recognize and

utilize patterns in order to solve problems. This course will conclude with the Regents in Algebra 2 (Common Core) in June. A TI-84 graphing calculator is required for this course.

ALGEBRA 2/PRE-CALCULUS HS1725
GRADE 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Successful completion of Intermediate Algebra

Algebra 2/Pre-Calc completes the Algebra 2 curriculum and introduces students to essential concepts in pre-calculus. In the first semester, students will review topics from the previous year and learn about sequences and series, probability, and statistics. In January, students will take the Regents in Algebra 2 (Common Core). In the second semester, students will learn about analytical trigonometry, solving trigonometric equations, work with trigonometric identities and they will further their understanding of exponential and logarithmic functions. The final exam for this course is a school exam.

CHS PRE-CALCULUS HS1204(11)/HS1205(12) (College # MAT 167)
GRADE 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Successful completion of Algebra 2 and a passing grade on the Regents in Algebra 2 (Common Core)

CHS Pre-Calculus is for students planning to take calculus or planning to continue in a mathematics or science related field after graduation from high school. Students will study topics including conics, theory of equations, functions, polar coordinates, matrices, graphical analysis, and an introduction to differential calculus. Pre-Calculus 11 includes additional calculus topics and prepares students for advancement into AP Calculus AB/BC. The final exam for this course is a local exam. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 3 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

AP CALCULUS AB/BC AND/OR UHS AB - HS1203 BC – HS1220 (College # AMAT 112)
GRADE 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

AB PREREQUISITE: CHS Pre-Calculus 11 or IB Mathematics SL

BC PREREQUISITE: Teacher recommendation.

In AP Calculus the following topics are studied: Analytical Geometry; differential calculus of algebraic functions; geometrical and physical applications of integration; the calculus of elementary transcendental functions; the application of transcendental functions. Mandatory AP Examinations in Calculus AB and Calculus BC will be given in May at cost to individual students. Upon satisfactory completion of the AP Examination each student may receive college credit in Calculus as determined by the collegiate institution(s) accepting the student for admission. Eligible students will complete a UHS application and submit the tuition payment directly to SUNY Albany. The curriculum and grades are determined by the high school teacher. Upon receiving a final grade of "C" or better, students will be awarded 3 credits from SUNY Albany. Students will have both a local exam and an AP exam for this course.

AP STATISTICS AND/OR UHS HS1213 (College # AMAT 108)
GRADE 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Successful completion of Algebra 2 and a passing grade on the Regents in Algebra 2 (Common Core)

AP Statistics covers the syllabus of a college Elementary Statistics course and includes such topics as standard deviation, line regression, how to write a questionnaire, and how to interpret data. The mandatory AP Examination for Statistics will be given in May at cost to individual students. Upon satisfactory completion of the AP Examination each student may receive college credit in Statistics as determined by the collegiate institution(s) accepting the student for admission.

Eligible students will complete a UHS application and submit the tuition payment directly to SUNY Albany. The curriculum and grades are determined by the high school teacher. Upon receiving a final grade of "C" or better, students will be awarded 3 credits from SUNY Albany. Students will have both a final local exam and an AP exam for this course.

IB MATHEMATICAL STUDIES SL IB1228
GRADE 11 or 12
CREDIT 1Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Intermediate Algebra 2 or Algebra 2

IB Mathematical Studies course focuses on math as a tool that can be used to solve problems in many different fields. Students will develop a solid understanding of basic concepts that will allow them to recognize when to apply mathematical tools to solve problems. Math topics we will study include functions and equations, analytical geometry and trigonometry, set theory, probability, statistics, and elementary differential calculus.

Students will be active participants in class and will be expected to work independently and cooperatively, make presentations, conduct research, learn and teach. Students will be responsible for an independent piece of mathematical work (internal assessment) in which they ask a mathematical question, collect data, analyze the data and present their findings in a coherent essay of no more than 2000 words.

Mathematical Studies SL is designed for students who are planning a career in such fields as education, finance, social science, health sciences, arts and the humanities.

In addition to the internal assessment, students will take the IB Mathematical Studies SL external assessment in May and will take a school final exam in June.

IB MATHEMATICS SL IB1227
GRADE 11 or 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Algebra 2

IB Mathematics SL is a one-year course that introduces several important mathematical concepts such as: algebra and functions, trigonometry, vectors, probability, statistics, and differential and integral calculus. The intention of the class is to expose students to these concepts in a clear and consistent way. The course is designed to foster independence in their mathematical learning.

This course will provide the students an opportunity to learn how students across the world see and learn mathematics. Students will be encouraged to use alternative notation and to study lives and contributions of several mathematicians. Students will be expected to learn how the attitudes of different societies towards specific areas of mathematics are demonstrated and how the language of mathematics is spoken by all countries.

Students are provided with opportunities to take a considered approach to these activities and to explore different ways of approaching a problem. Students will be required to develop skills they need for communicating mathematical ideas.

Mathematics SL is designed for students who possess a strong background in mathematics and are looking to pursue a career in which a deeper understanding and appreciation of mathematical concepts is required.

The internally assessed component, the mathematical exploration, offers students a framework for developing independence on their mathematical learning by engaging in mathematical investigation and modeling. At the end of the course, students will take the IB Mathematics SL external assessment.

INTRODUCTION TO COMPUTER SCIENCE HS1681

GRADES 9,10,11,12

CREDIT 1/2 Unit

FINAL ASSESSMENT School Exam

Introduction to Computer Science is a semester course that will cover a wide variety of fundamental topics. Students will be introduced to topics including abstraction, computer organization, ethics, history of computing, and representation of information. This course will conclude with a school approved project.

SAT PREP MATH AND VERBAL HS2263

GRADE 11, 12

CREDIT 1/2 unit (Pass/Fail)

SAT Prep Math and Verbal is offered by both the Mathematics and English departments. Instruction is based on the individual areas tested on college entrance examinations. The instructors will use review books, practice tests and the school's computer resources.

PHYSICAL EDUCATION

All students must complete two units of credit in Physical Education over four years. All students must enroll in Physical Education each year of high school.

PHYSICAL EDUCATION 9/10 HS1390/HS1391

GRADE 9, 10

CREDIT 1/2 Unit

FINAL ASSESSMENT None given

Physical Education 9/10 is an essential and basic part of the total education program. Participating students will learn activities designed for lifetime fitness and wellness. Our students develop the skills, knowledge, and attitudes necessary for a healthy lifestyle. Activities include, but are not limited to: Field Hockey, Lacrosse, Archery, Soccer(indoor and outdoor), Badminton, Dance and choreography, Floor Hockey, Aerobics, Cooperative Games, Introduction to weight training, Tennis, Swimming activities, Orienteering, Softball, Tennis, Adventure Education, Flag Football, Ultimate Frisbee, Speedball, and Fitness Testing.

PHYSICAL EDUCATION 11/12 HS1378/1379

GRADE 11, 12

CREDIT 1/2 Unit

FINAL ASSESSMENT None given

Physical Education 11/12, is a full year course where the students obtain knowledge of team sports, practice individual sports, and gain an understanding of the importance of lifetime wellness. A wide variety of sports and activities are provided so that the student has the opportunity to develop an understanding of health, wellness, fitness, and sport in a safe and healthy environment.

ALTERNATE STUDY PHYSICAL EDUCATION HS1361

GRADE 10, 11, 12

CREDIT 1/2 Unit (Pass/Fail)

FINAL ASSESSMENT None given

Alternate Study Physical Education program is a student based course that provides an alternative pathway to students for Physical Education credit. This course has an application process for students in good academic standing who are highly involved in and committed to physical activity outside the traditional school day. Offered as Pass/Fail, this alternative option is designed by the student, under the supervision of a certified physical education teacher, in direct accordance with New York Physical Education Learning Standard Three. Students must demonstrate participation in an activity at least two or three times per week for a minimum of three hours per week, for a total of 20 concurrent weeks. Proof of this participation will be in the form of 4 daily logs of activities and 2 reflective pieces for the semester. Acceptable activities in this program are as follows but are not limited to: crossfit, travel sports teams, tae kwon do, ice skating and dance. A student MUST apply the semester before participation and must reapply each semester.

PHYSICAL EDUCATION: PREVENTION & CARE OF INJURIES ONLINE HS1389

GRADE 11, 12

CREDIT 1/2 Unit (Pass/Fail)

FINAL ASSESSMENT None given

Prevention and Care of injuries is a full year course that provides an introduction to current philosophies, procedures and practices related to the care and prevention of athletic injuries. Students will study contemporary principles and methods of conditioning, prevention, and first-aid care. In addition, the fundamentals of taping and wrapping techniques, inspection & physical examination of injuries, and training room procedures will be covered. This course is offered as Pass/Fail, full year course for full International Baccalaureate Diploma Programme students.

PHYSICAL EDUCATION: THERAPEUTIC MODALITIES ONLINE HS1362

GRADE 11, 12

CREDIT 1/2 Unit (Pass/Fail)

FINAL ASSESSMENT None given

Physical Education: Therapeutic Modalities will offer an overall perspective for therapeutic modality use with basic anatomy. It will define the therapeutic modalities and help the student to understand their place in orthopedic injury management and explain how they related to total rehabilitation. A rationale for using a standardized system approach to application will also be presented. Lastly the course will include a case for proper record keeping, indicating how doing so can strengthen both the efficacy of your treatments and the quality of health care provided. This course is offered as a Pass/Fail, full year course for full International Baccalaureate Diploma Programme students.

PHYSICAL EDUCATION: SMART STEPS-VOTEC/BOCES ONLINE HS1364

GRADE 11, 12
CREDIT 1/2 Unit (Pass/Fail)
FINAL ASSESSMENT None given

Smart Steps is an exercise walking program. It requires no gym, no exercise machines, and no personal trainers. This program is all about movement- physical movement, footsteps, miles, energy expenditure, exertion, activity, games, active living and pedometers. The primary emphasis will be placed on active lifestyle, personal awareness of activity levels, and understanding/appreciating the benefits of a walking program. This course is offered as a Pass/Fail, full year course for any BOCES student.

PHYSICAL EDUCATION: GUARD START HS1351

GRADE 9, 10
CREDIT 1/4 Unit
FINAL ASSESSMENT None given

Guard Start will teach water safety and the duties and responsibilities of a lifeguard. However, this course will not certify students to be a lifeguard. It will build a foundation of knowledge, attitudes, and skills in preparation for the American Red Cross Lifeguard Training course. Upon completion and when turning 15 years of age, participants will be prepared to enroll in the American Red Cross Lifeguard Training Course.

PHYSICAL EDUCATION: LIFEGUARDING HS1353

GRADE 9, 10, 11, 12
CREDIT 1/4 Unit
FINAL ASSESSMENT School exam

Physical Education: Lifeguarding course includes three components: Lifeguard Training (including First Aid), CPR for the Professional Rescuer, and a Waterfront Lifeguarding Module. Each component has a written and practical exam and each has a card for successful completion of activities. You must be 15 years old to take this course. Students who achieve 80% on written exam and successfully complete practical skills test will earn lifeguard certification.

SCIENCE

All students must earn three credits in Science and pass one Regents exam in order to meet the requirements for graduation. One credit must be in life science and the second in a physical science. The third credit of science can be in either a physical science or a life science. Students must pass two Regents exam for the Regents Diploma with Advanced Designation. Section 207 of NYS Education Law Section 8.2(c) of the rules of the Board of Regents states that in order to qualify to take a Regent's examination in any of the Regents sciences a student must complete 20 hours of laboratory experience with satisfactory documented laboratory reports. The 20 hours of laboratory experience must be in addition to the required classroom instruction associated with earning a unit of credit.

BIOLOGY REGENTS	HS1255
GRADE	9, 10, 11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	NYS Regents

Biology Regents is a full year laboratory course in modern biology following the New York State Living Environment Core Curriculum. It is designed to provide broad general understandings of the fundamental principles of biology and to provide an extension of understanding in selected areas. Units include: biochemistry, animal and plant life, reproduction and development, genetics, evolution and diversity, and ecological relationships. Students must complete 20 hours of hands on laboratory experiences with satisfactory lab reports to successfully complete the course. This course culminates in the Living Environment Regents exam.

BIOLOGY HONORS	HS1254
GRADE	9, 10, 11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	NYS Regents

PREREQUISITE: Completion of Earth Science with at least a 90 average for course/exam

Biology Honors is a full year laboratory course which covers the New York State Living Environment Core Curriculum but in much greater detail and at a much faster pace in order to challenge students with exceptional ability. The course will include additional laboratory work in biotechnology – electrophoresis and bacterial transformation. Students must complete 20 hours of hands on laboratory experiences with satisfactory lab reports to successfully complete the course. Students will be prepared to take the SAT II Subject Test in Biology in June. This course culminates in the Living Environment Regents exam.

EARTH SCIENCE REGENTS	HS1261
GRADE	9, 10, 11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	NYS Regents

Earth Science is a full year laboratory course that follows the New York State Physical Setting/Earth Science Core Curriculum. Topics include geology, meteorology, hydrology, and astronomy with an emphasis on our Earth and the processes affecting it. Students must complete 20 hours of hands on laboratory experiences with satisfactory lab reports to successfully complete the course. This course culminates in the Physical Setting/Earth Science Regents exam.

CHEMISTRY REGENTS	HS1260
GRADE	10, 11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	NYS Regents

PREREQUISITE: Successful completion of Living Environment and Earth Science and successful completion of Algebra.

Regents Chemistry is a full year laboratory course based on the New York State Physical Setting/Chemistry Core Curriculum and deals with the fundamental relationships between matter and energy as well as the changes which matter undergoes. Topics include atomic structure, chemical bonding, stoichiometry, kinetics, equilibrium, acid-base theory, oxidation-reduction, and organic reactions. Students must complete 20 hours of hands on laboratory experiences with satisfactory lab reports to successfully complete the course. This course culminates in the Physical Setting/Chemistry Regents Exam.

CHEMISTRY HONORS	HS1259
GRADE	10, 11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	NYS Regents

PREREQUISITE: Successful completion of Earth Science and Biology with at least a 90 average for the course/exam as well as strong foundational skills in solving algebraic equations.

Chemistry Honors is a full year laboratory course based on the New York State Physical Setting/Chemistry Core Curriculum with significant supplemental content and a faster pace of instruction. The students will seek abstract patterns that unify the relationships between matter and energy. This course is designed for highly motivated students that want to challenge themselves with a fast pace course and are willing to work independently to solve complex problems. Students will be prepared to take the SAT II Subject Test in Chemistry in June. Students must complete 20 hours of hands on laboratory experiences with satisfactory lab reports to successfully complete the course.

PHYSICS REGENTS	HS1268
GRADE	11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	NYS Regents

PREREQUISITE: Successful Completion of or concurrent enrollment in Algebra 2.

Physics Regents is a full year laboratory course based on the New York State Physical Setting/ Physics Core Curriculum and provides a systematic introduction to the main principles of the physical world. Topics covered include Mechanics, Energy, Electricity and Magnetism, Waves and Modern Physics. Regents Physics emphasizes the development of problem-solving skills. Students should have an understanding of algebra and trigonometry. Students who intend to continue study in any science based technical field are encouraged to enroll in this course. Students must complete 20 hours of hands on laboratory experiences with satisfactory lab reports to successfully complete the course. This course culminates in the Physical Setting/Chemistry Regents Exam.

BIOMEDICAL SCIENCES

The Biomedical Science Program is a sequence of courses that provide a hands-on, real-world problem solving approach to learning developed by Project Lead the Way. Project Lead The Way is the nation's leading provider of science, technology, engineering, and math (STEM) curriculum programs. Students explore the concepts of human medicine as well as the prevention, diagnosis and treatment of disease. Students work collaboratively to investigate and design innovative solutions for health challenges of the 21st century. This sequence of courses is designed for students interested in pursuing a career in biological sciences, emergency services, healthcare or medicine. This is a college preparatory program and students should be concurrently enrolled in a college prep science class.

PLTW PRINCIPLES OF BIOMEDICAL SCIENCES	HS1280
GRADE	9, 10
CREDIT	1 Unit
FINAL ASSESSMENT	School Exam and Final Project

COREQUISITE: College preparatory science class

Principles of Biomedical Sciences is a full year introductory course which covers the study of human medicine, research processes and an introduction to bioinformatics. This course is designed for students interested in pursuing a career in the biological sciences, emergency services, healthcare or medicine. In this course, students investigate the human body systems and various health conditions. An on-going theme throughout the year is the analysis of various factors that led to the death of a fictional person. Students investigate lifestyle choices and medical treatments that might have prolonged the person's life. The course culminates with a written exam and a project. Students need to be concurrently enrolled in a Regents Science class.

PLTW HUMAN BODY SYSTEMS	HS1282
GRADE	10, 11, 12
CREDIT	1 Unit
FINAL ASSESSMENT	School Exam and Final Project

PREREQUISITE: Successful completion of Principles of Biomedical Sciences and Regents Biology.

COREQUISITE: College preparatory science class

Human Body Systems is a full year course which covers human body systems and studies how “parts of a whole,” work together to maintain homeostasis, good health and to keep the human body functioning at an optimal level. Students will work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries. Students will design experiments, explore various medical careers, investigate the structures and functions of body systems, and use data acquisition software to monitor body functions such as breathing rate, and body strength. Students will forensically analyze bones, complete DNA electrophoresis, and dissect cow eyes, pig kidneys, and rabbit leg muscles. Students will also perform blood type lab, urinalysis, a visual perception lab, and analysis of broken bones with x-rays. This course culminates with a written exam and a project. Students need to be concurrently enrolled in a Regents Science Class.

PLTW MEDICAL INTERVENTIONS HS1283

GRADE 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT School Exam

PREREQUISITE: Successful completion of Human Body Systems

COREQUISITE: College preparatory science class

Medical Interventions is a full year course which covers the design and development of various medical interventions that extend and improve the quality of life. Topics in the course include diagnostics, pharmacology, surgery, cancer, gene therapy, prosthetics, rehabilitation, and supportive care. College level labs are an essential part of this course and students will develop a skill set for performing these labs. Students will study the design and developments of various medical interventions including robotic surgery, cochlear implants, and prosthetic limbs. Students will learn about the history of medical interventions, and read current scientific literature to be aware of cutting edge developments. The course culminates with a written exam and a project. Students need to be concurrently enrolled in a Regents or AP Science Class.

BIOMEDICAL RESEARCH HS1429 Full Year/HS1430 ½ year

GRADE 12

CREDIT 1/2 Unit or 1 Unit

FINAL ASSESSMENT School Exam

PREREQUISITE: Successful Completion of Medical Interventions

Biomedical Research is a capstone course where students design innovative solutions for the health challenges of the 21st century. Students must be able to work independently as the course consists solely of an independent, self-designed project with a mentor or advisor.

NON-REGENTS SCIENCE COURSES

APPLIED PHYSICS HS1267

GRADE 11, 12

CREDIT 1 Unit

FINAL ASSESSMENT School Exam

PREREQUISITE: Successful completion of Algebra

Applied Physics is a one year general level, hands-on, project based course. It will be taught using only basic algebra skills. The class will cover mechanics, energy, simple machines, electricity, and magnetism. Students need to have successfully completed Algebra prior to taking this course. Students will work in teams to complete projects therefore academic success in this class is dependent on regular attendance.

GENERAL CHEMISTRY HS1257

GRADE 11, 12

CREDIT 1/2 Unit

FINAL ASSESSMENT School Exam

General Chemistry is a semester long course that focuses on traditional chemistry topics including atomic structure, bonding, solutions, gas laws, and nuclear chemistry. Students will perform lab activities for all topics. The course culminates with a written final.

FORENSICS HS1265
GRADE 11, 12
CREDIT 1/2 Unit
FINAL ASSESSMENT School Exam

Forensics is a semester long course that focuses on crime scene management, evidence collection, and analysis. Labs may include fingerprinting, organic analysis of drugs and poisons, hair and fiber identification, glass analysis, document analysis, blood work, and will culminate in thorough investigation and processing of crime scenes. Students will complete labs for many of the topics in the course. Therefore, academic success in this class is dependent on regular attendance.

ANIMALS AND PLANTS OF THE NORTHEAST HS1275
GRADE 11, 12
CREDIT 1/2 Unit
FINAL ASSESSMENT School Exam

Animal & Plants of the Northeast, is a semester long survey course acquaints students with the wealth of plant and animal life found primarily in the Northeastern Section of the United States. Topics covered in the course include trees, birds, fish, reptiles, amphibians, insects, and mammals will be covered. Each topic will include classification schemes, anatomy, physiology, and species identification. This course is designed for students interested in developing an appreciation for and sense of stewardship toward our wildlife resources. The course culminates with a final project.

BASIC PRINCIPLES OF NUTRITION HS1387
GRADE 10, 11, 12
CREDIT 1/2 Unit
FINAL ASSESSMENT Project

PREREQUISITE: Biology (Final average above 85) and Health (Final average above 90)

Basic Principles of Nutrition is a semester long science course that introduces the role of nutrition in health maintenance. Students will learn food sources, functions and the interrelationships of the six major nutrient categories, as well as, energy requirements and balance. It also includes the principles of nutrient needs throughout the life cycle and their application to nutritional assessment, menu planning and food preparation.

UHS/PLTW PRINCIPLES OF ENGINEERING HS1654
GRADE 10, 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT End of Course Assessment & Project

RECOMMENDED ACHIEVEMENT LEVELS: Successful completion of UHS/PLTW DDP

Principles of Engineering is a full year course that explores various technology systems and manufacturing processes. Principles of Engineering is a project based course that helps students understand the field of engineering/engineering technology. Students will learn how engineers and technicians use math, science and technology in a problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change. This course culminates with a final project and an end of course assessment. Students who maintain an 85% average in this course and score at least a 6 on the PLTW end of course assessment are eligible to apply for 4 college credits from Rochester Institute of Technology (RIT). This course may count for the third year of Science required for high school graduation.

UHS/PLTW DIGITAL ELECTRONICS HS1653
GRADE 9, 10, 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT End of Course Assessment & Project

RECOMMENDED ACHIEVEMENT LEVELS: Successful completion of UHS/PLTW DDP and Algebra

Digital Electronics is a full year course that explores basic uses for circuit instrumentation like meters, oscilloscopes, and logic probes. Introductory circuit analysis, discrete electronic components, integrated circuits, and their applications in electronic circuits will be studied. High reliability soldering techniques are introduced. Students learn to build circuits in the laboratory and on computer simulations. Students will fabricate a practical application of digital electronics for a semester project. Because of the intrinsic math component of the course, completion of Algebra is strongly recommended. This course culminates with a final project and an end of course assessment. Students who maintain an 85% average in this course and score at least a 6 on the PLTW end of course assessment are eligible to apply for 4 college credits from Rochester Institute of Technology (RIT). This course may count for the third year of Science required for high school graduation.

UHS FORENSICS HS1264
GRADE 11, 12
CREDIT 1/2 Unit
FINAL ASSESSMENT School Exam

RECOMMENDED ACHIEVEMENT LEVELS: Successful completion of Regents Chemistry

UHS Forensics is a semester long course that focuses on crime scene management, evidence collection, and analysis. Labs may include fingerprinting, organic analysis of drugs and poisons, hair and fiber identification, glass analysis, document analysis, blood work, and will culminate in thorough investigation and processing of crimes scenes. Students will complete labs for many of the topics in the course. Therefore academic success in this class is dependent on regular attendance. Students must register and pay tuition of approximately \$100 per credit hour for 4 credits to Syracuse University.

CHS ASTRONOMY- EXPLORING SPACE HS1256 (College # AST 123)

GRADE 11, 12
CREDIT 1/2 Unit
FINAL ASSESSMENT School Exam

RECOMMENDED ACHIEVEMENT LEVELS: Successful completion of Regents Earth Science, Algebra, and Geometry

CHS Astronomy – Exploring Space is a semester long course that examines present and future methods of space exploration. Topics include the basic science, instruments, technology, dangers, benefits, costs, and practical and political importance of space exploration. Discussion topics include space stations, moon colonies, manned missions from Mercury through Apollo, and current international space missions. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 3 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

AP PHYSICS 1/CHS HS1266 (College # PHY 153/154)

GRADE 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT NYS Regents

RECOMMENDED ACHIEVEMENT LEVELS: Successful completion of Regents Chemistry and Algebra 2 with a 90 or better for the courses/exams.

AP Physics is a full year, college level, in-depth, algebra based course that provides a systematic introduction to the main principles of physics. Topics covered are aligned with both the Physical Setting/Physics Core Curriculum and the AP Physics Year 1 Syllabus. Topics include Newtonian Mechanics, Electricity and Magnetism, Waves, and Atomic Physics. AP Physics Year 1 emphasizes the development of problem solving skills. It is intended for strong students who have shown exceptional success in science and math courses. Students should have a firm understanding of algebra and trigonometry. Students will be expected to complete a summer assignment for the course. At the end of the course, students will take both the NYS Physical Setting/Physics Regents and the AP Physics Year 1 exam. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 8 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

AP BIOLOGY/CHS HS1253 (College # BIO 141/142)

GRADE 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

RECOMMENDED ACHIEVEMENT LEVELS: Successful completion of both Regents Chemistry and Algebra 2 with a 90 or better for the courses/exams. In addition, students should have either successfully completed Regents or AP Physics with a 90+ average OR should be concurrently enrolled in Regents or AP Physics.

AP biology is a full year college level introductory biology course designed to cover the material typically presented in a two semester college class. It is a rigorous, fast-paced course covering topics including biochemistry, cells, organisms, populations, ecology, evolution, and genetics. The course is intended for strong students who have shown exceptional

success in both biology and chemistry courses. Students will complete a summer assignment for the course. At the end of the course, students will take the AP Biology exam as well as a local written final exam. Students are expected to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College and register for the opportunity to earn college credits with NO tuition charges. Students will complete registration online in class and must turn in a Certificate of Residency. Upon receiving a final grade of C or better, students will be awarded 8 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

AP CHEMISTRY HS1258
GRADE 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

RECOMMENDED ACHIEVEMENT LEVELS: Successful completion of Regents/Honors Chemistry and Algebra 2 with a 90 or better for the courses/exams. Students should be enrolled in either Pre-Calculus or Calculus. In addition, students should have either successfully completed Regents or AP Physics with a 90+ average OR should be concurrently enrolled in Regents or AP Physics

AP Chemistry is a full year college level introductory chemistry course designed to cover the material typically covered in a two semester college class. The course will encompass lecture, lab, and independent study. AP Chemistry is a rigorous, fast-paced course covering topics including structure and states of matter, reactions and descriptive chemistry. It is intended for strong students who have shown exceptional success in high school science and math courses. Students who have experienced success in Honors level science classes are much better prepared for the workload and expectations of an AP science class. Students will be expected to complete a summer assignment. At the end of the course, students will take the AP Chemistry exam and complete a culminating project.

IB BIOLOGY HL YEAR 1/YEAR 2 IB1294/IB1298
GRADE 11, 12
CREDIT 2 Units
FINAL ASSESSMENT YEAR 1 School Exam

PREREQUISITE: Successful completion of at least 2 Regents Science classes. Chemistry is strongly recommended. IB Biology HL is a rigorous, fast paced, two-year experimental science course for students who wish to understand the unity and diversity of living organisms on the molecular, cellular, organic and ecological level. The general aims of IB Biology HL are to: provide content; develop an understanding of how biological information is collected, analyzed and evaluated; develop experimental skills; and understand how biology has social consequences in the global context. The course is intended for strong students who have shown exceptional success in their previous science courses. Topics covered during the course include: measurement and error analysis, genetics, evolution, ecology, the interrelationships between organisms and the environment, human reproduction and physiology, biochemistry, plants, microbiology, and biotechnology. Students will be expected to complete a summer assignment for the course. Laboratory investigations are an integral part of the course. Through this course students will design and carry out appropriate experiments, at times self-directed, and communicate the results. Students will complete a collaborative experimental science project with students in other experimental science courses. The independent laboratory work produced by each student will be moderated by the IBO and will contribute to the student's overall IB score in the subject. At the end of the two-year sequence, students will be ready to sit for the IB Biology HL exam.

IB ENVIRONMENTAL SYSTEMS AND SOCIETIES SL/CHS IB1295 (College # ENV 100)
GRADE 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Successful completion of at least 2 Regents Science classes

IB Environmental Systems and Societies (ES&S) is a one year, standard level, interdisciplinary course that combines the techniques and knowledge of the experimental sciences with the theories and concepts relating to the nature of societies. Systems, models, internationalism and environmental values are central themes throughout the course. The course will afford students the opportunity to be self-directed learners, and provide them with a variety of perspectives concerning many pressing environmental issues enabling them to adopt an informed personal response. Students will evaluate the scientific, ethical and socio-political aspects of various environmental issues while focusing on five major areas of study:

Ecosystems, human population and resource use, conservation and biodiversity, pollution management, and global climate change.

This course is designed for students in their junior or senior year who wish to better understand the relationship between the natural and social sciences. The internally assessed portion of the course requires students to independently design and carry out multiple, authentic laboratory experiments and then be able to communicate the results to a wide audience. The independent laboratory work produced by each student will be moderated by the IBO and will contribute to the student's overall IB score in the course.

All students enrolled in the course are required to take the IB Environmental Systems and Societies exam in May. Students are encouraged to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College. Students who register for the program have the opportunity to earn college credits with NO tuition charges. Students must complete a SCCC application in the beginning of the course and return it promptly to the teacher. Upon receiving a final grade of C or better, students will be awarded 4 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

IB PHYSICS HL YEAR 1/YEAR 2 IB1296/IB1297

GRADE 11 and 12

CREDIT 2 Units

FINAL EXAMINATION YEAR 1 NYS Regents

PREREQUISITE: Successful completion of at least 2 Regents Science classes and Algebra 2

COREQUISITE: IB Mathematics SL or Pre-Calculus

IB Physics HL is a rigorous two-year experimental science course that provides students with a conceptual and mathematical framework from which to analyze the physical world around them. Topics covered during the course include: measurement and error analysis, mechanics, thermal physics, oscillations and waves, electromagnetism, electric currents, atomic and nuclear physics. Practical (laboratory) investigations are an integral part of the course. Students will be expected to complete a summer assignment. Throughout this course, students will design and carry out appropriate experiments and communicate the results to a wide audience. During year one, students will complete a collaborative experimental science project with students in other experimental science courses. The independent laboratory work produced by each student will be moderated by the IBO and will contribute to the student's overall IB score in the subject. At the end of the first year, students will be required to sit for the NYS Regents Physics examination. At the end of the two-year sequence, students will be required to sit for the IB Physics HL exam.

SOCIAL STUDIES

All students must earn four credits by passing Global History 9 and 10, US History, Economics, and Participation in Government. In addition all students must take a NYS Regents exam in Global History and US History.

GLOBAL HISTORY 9 REGENTS HS1159

GRADE 9
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

Global History 9 is the first of four required units of social studies. It serves as a prerequisite to Global History 10. Global History is designed to focus on the five social studies standards, common themes that recur across time and place and eight historical eras. The course stresses methods of social sciences as applied to a chronological study of history from ancient civilizations to the eve of the French Revolution. Students will be required to take a local exam in June.

AP WORLD HISTORY I HS1165

GRADE 9
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

AP World History I is the first half of Advanced Placement World History. Students taking this course should have the intention of continuing on to the second half of AP World History in 10th grade. Course content includes: Prehistory through the foundations of the Age of Revolutions, including the classical world; Byzantine and Islamic Civilizations; Africa, Asia, and the Americas; the Middle Ages; the Renaissance and Reformation; and the Age of Exploration. This course will make demands on students that are equivalent to those of an introductory college course. This course fulfills the requirement for Global History. Students will be expected to read more extensively, complete more in depth and challenging writing assignments, do more individual study, and go into topics in greater depth than in Global History 9. Students will be required to take a local exam in June.

GLOBAL HISTORY 10 REGENTS HS1158

GRADE 10
CREDIT 1 Unit
FINAL ASSESSMENT NYS Regents

PREREQUISITE: Global History 9

Global History 10 is the second of four required units of social studies and serves as the second year of the 9–10 Global History sequence. Global History 10 is designed to focus on the five social studies standards, common themes that recur across time and place and eight historical eras. The course stresses methods of social science as applied to a chronological study of history from the French Revolution to the present. Students are required to take a Regents exam on material from Global History 9 and 10 at the end of the course.

AP WORLD HISTORY II HS1166

GRADE 10, 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT NYS Regents

AP World History II is the second year of a two year course. Course content focuses primarily on the past thousand years of the global experience from about 1000 C.E. to the present, highlighting changes in international frameworks and comparisons especially among major non-European societies. This course will make demands on students that are equivalent to those of an introductory college course. This Advanced Placement course prepares students for the AP World History examination. Students enrolled in this course are expected to take the AP World History exam. Students will also take the Regents Exam in Global History in June. This course fulfills the requirement for Global History 10.

UNITED STATES HISTORY AND GOVERNMENT REGENTS HS1152

GRADE 11
CREDIT 1 Unit
FINAL ASSESSMENT NYS Regents

PREREQUISITE: Global History 10

United States History and Government is organized into twenty-seven historical units. This course will provide students with an understanding of the basic principles of the constitution, the cultural heritage of the United States that support our democracy and how individuals and groups have influenced public policy and change. All students will be required to take a Regents examination in June.

AP UNITED STATES HISTORY HS1163
GRADE 11
CREDIT 1 Unit
FINAL ASSESSMENT NYS Regents

AP United States History is a course that provides a general overview of the history of the United States. In chronological order, students will explore America's past, examining the cultural, political, geographic, economic and technological changes that have taken place and have helped to shape us and guide us as a nation today. Topics will include issues relating to the discovery of the New World through the latter part of the 20th century. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship. Students enrolled in this course will read extensively, interpret a wide variety of primary and secondary sources, and interact with electronic media. This course will make demands on students that are equivalent to those of an introductory college course. Students enrolled in this course will be expected to complete a summer reading program. This Advanced Placement course prepares students for the AP United States History examination. Students enrolled in this course are expected to take the AP United States History exam. Students will also take the Regents Exam in United States History & Government in June. This course fulfills the requirement for United States History & Government.

ECONOMICS, THE ENTERPRISE SYSTEM, AND FINANCE HS1153

GRADE 12
CREDIT 1/2 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: United States History & Government 11

Economics, The Enterprise System and Finance course offers comprehensive survey of the basic economic components of the United States economy, the world economic system, and the relationships that these components share. Students will become acquainted with, the vocabulary of economics and will explore such topics as: personal finance, fiscal and monetary policy, economic indicators, taxation, and the role of the United States in the world economy. Students will be required to take a local exam at the end of the course.

AP UNITED STATES GOVERNMENT AND POLITICS HS1164

GRADE 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

AP United States Government and Politics is a course that provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. Topics include: foundations of the Constitution; political beliefs and behaviors; political parties, interest groups, and the media; the Presidency; the Bureaucracy; the Congress; the Federal Courts; multiple public policy issues; civil rights and civil liberties; basic economic concepts and their application will give students an analytical perspective on government and politics in the United States. The course is rigorous and designed to be the equivalent of an entry-level college political science class. Students should expect nightly readings as well as several written assignments each marking period. NOTE: Completion of this class fulfills the New York State fourth year social studies requirements in Economics and Participation in Government.

PARTICIPATION IN GOVERNMENT HS1154**GRADE** 12**CREDIT** 1/2 Unit**FINAL ASSESSMENT** School Exam**PREREQUISITE:** United States History & Government 11

Participation in Government is designed to bring together all of the Social Studies skills needed to become an effective citizen. The course includes a review of the structures of federal, state, and local governments, analysis of rights and liberties through the use of court cases, and the investigation of political beliefs and behaviors using current issues. Students will work to develop their political beliefs and positions on issues. The course emphasizes personal responsibility and individual initiative. Students will be given the opportunity to become involved in their community to witness the links between participation and policy making in real life.

IB HISTORY OF THE AMERICAS HL YEAR 1/ UNITED STATES HISTORY AND GOVERNMENT IB1172**GRADE** 11**CREDIT** 1 Unit**FINAL ASSESSMENT** NYS Regents**PREREQUISITE:** Global History 10 or AP World History II**RECOMMENDED ACHIEVEMENT LEVELS:** Teacher Recommendation; 85 or better in Global History and on the Global History Regents

The International Baccalaureate Programme in History is an intensive two-year study and is designed to provide highly motivated students with a rigorous program that will examine various aspects of history in great depth. In addition to extensive content knowledge, students will develop reading, writing, research, and critical thinking skills. IB History of the Americas is the first year of a two-year course. Students will learn about the history of race relations in the Americas with an in-depth study and analysis of the following three topics: 1) Slavery and the New World (1500-1800); 2) United States Civil War: Causes, Course, and Effects (1840-1877); and 3) Civil Rights and social movements in the Americas. The study of these three topics will prepare students for the IB external assessment to be taken in May of 12th grade. Students will also be prepared for the Regents exam in U.S. History and Government at the conclusion of this year.

IB HISTORY OF THE AMERICAS HL, YEAR 2 IB1174**GRADE** 12**CREDIT** 1Unit**FINAL ASSESSMENT** IBHL external assessment**PREREQUISITE:** IB History of the Americas Year 1

In the second year of the IB History Programme, students will examine several important turning points from the 20th Century. Students will study one prescribed subject on the "Move to Global War" and two world history topics on "The Cause and Effects of 20th Century Wars" and "The Cold War: Superpower Tensions and Rivalries". Throughout the prescribed subject, students will examine two case studies on Japanese Expansion in East Asia from 1931 to 1941 and German and Italian Expansion from 1933 to 1940. Topics covered during the course include: the Russo-Japanese War, World War I, World War II, and the rivalry, mistrust, and accord brought on during the Cold War. Students will examine the actions of specific leaders, including Truman, Stalin, Mao, Eisenhower, Khrushchev, Castro, JFK, LBJ, Brezhnev, Nixon, Carter, Reagan and Gorbachev. Students will complete an internal assessment. This assessment is a paper that is an original historical investigation on a topic of the student's choosing. Throughout the two years of study, students will prepare for external assessment to be taken in May of their second year. The external assessment is a three part examination including paper one on "The Move to Global War" (20% of IB History grade), paper two on "The Causes and Effects of 20th Century Wars" and "The Cold War"(25% of IB History grade), and paper three on "Slavery in the Americas", "The U.S. Civil War" and Civil Rights and social movements in the Americas. (35% of IB History grade)

IB PSYCHOLOGY SL IB1173**GRADE** 11 or 12**CREDIT** 1 Unit**FINAL ASSESSMENT** IBSL external assessment**PREREQUISITE:** Biology, Global History

IB Psychology is the systematic study of human behavior and mental processes. It is rooted both the natural and human sciences and based on rigorous, empirical research. This course explores the science of psychology through three levels of analysis: biological, cognitive and sociocultural. The biological level of analysis explores what all humans share – genetics, anatomy and neurochemistry – whereas the cognitive and socio-cultural levels of analysis examine the diversity

of human behavior and mental processes. Students will also explore abnormal psychology, studying the causes, diagnosis and treatments of mental illness. Specific attention will be paid to the cultural differences in the diagnosis and treatment of mental illness. This course is designed for students with a strong interest in biology and the social sciences. Students will complete an internal assessment. This assessment will be a rigorous replication of previously conducted research in psychology. Students will also take an external assessment at the end of the course.

IB ENVIRONMENTAL SYSTEMS AND SOCIETIES SL/CHS IB1295 (College # ENV 100)
GRADE 11, 12
CREDIT 1 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Successful completion of at least 2 Regents Science classes

IB Environmental Systems and Societies (ES&S) is a one year, standard level, interdisciplinary course that combines the techniques and knowledge of the experimental sciences with the theories and concepts relating to the nature of societies. Systems, models, internationalism and environmental values are central themes throughout the course. The course will afford students the opportunity to be self-directed learners, and provide them with a variety of perspectives concerning many pressing environmental issues enabling them to adopt an informed personal response. Students will evaluate the scientific, ethical and socio-political aspects of various environmental issues while focusing on five major areas of study: Ecosystems, human population and resource use, conservation and biodiversity, pollution management, and global climate change.

This course is designed for students in their junior or senior year who wish to better understand the relationship between the natural and social sciences. The internally assessed portion of the course requires students to independently design and carry out multiple, authentic laboratory experiments and then be able to communicate the results to a wide audience. The independent laboratory work produced by each student will be moderated by the IBO and will contribute to the student's overall IB score in the course.

All students enrolled in the course are required to take the IB Environmental Systems and Societies exam in May. Students are encouraged to enroll in the SCCC College in the High School Program (CHS) with Schenectady County Community College. Students who register for the program have the opportunity to earn college credits with NO tuition charges. Students must complete a SCCC application in the beginning of the course and return it promptly to the teacher. Upon receiving a final grade of C or better, students will be awarded 4 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

CHS/UHS PSYCHOLOGY HS1155 SCCC College # PSY121 SUNY Albany College # APSY 101
GRADE 12
CREDIT 1/2 Unit
FINAL ASSESSMENT School Exam

RECOMMENDED ACHIEVEMENT LEVELS: Teacher recommendation. 85 or better in Global History and an 85 or better on the Global History Regents. 85 or better in Honors Biology.

Psychology CHS/UHS is the systematic study of human behavior and mental processes. It is rooted both the natural and human sciences and based on rigorous, empirical research. This course explores the science of psychology through three levels of analysis: biological, cognitive and sociocultural. The biological level of analysis explores what all humans share – genetics, anatomy and neurochemistry – whereas the cognitive and socio-cultural levels of analysis examine the diversity of human behavior and mental processes. Students will also explore abnormal psychology, studying the causes, diagnosis and treatments of mental illness. Specific attention will be paid to the cultural differences in the diagnosis and treatment of mental illness. This course is designed for students with a strong interest in biology and the social sciences. Students are expected to enroll in either the University in the High School program through SUNY Albany or the College in the High School program through SCCC. For those students enrolled in UHS program there is a fee and registration process associated and upon receiving a grade of C or better in this course, students will be awarded 3 college credits by SUNY Albany. These credits are accepted at most institutions of higher learning. For students enrolled in the CHS program, Students must complete a SCCC application and turn in a Certificate of Residency in the beginning of the course and return it promptly to the teacher. There is no fee associated with the CHS program. Upon receiving a final grade of C or better, students will be awarded 3 credits from SCCC. These credits may be transferrable to SUNY schools and other institutions of higher learning.

HISTORY OF THE HOLOCAUST AND MODERN GENOCIDE HS1175

GRADE 11, 12
CREDIT 1/2 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Global History 10

RECOMMENDED ACHIEVEMENT LEVELS: 80 or better in Global History and on the Global History Regents

History of the Holocaust and Modern Genocide is a semester elective designed to investigate the causes, practices, and effects of the 20th and 21st century genocides and human rights violations. Topics to be covered include, but are not limited to: the Holocaust, Stalin's mass murders and forced famine, the "killing fields" of Cambodia, famine in North Korea, and the genocides in Bosnia, Rwanda, and Darfur. The course will provide students with the opportunity to develop an understanding of how genocides and related human rights violations occur and what impact they have upon the international community. Students will also make regular connections between history and current world issues. This course is recommended for students with a strong interest in social studies and current events.

SOCIOLOGY HS1162
GRADE 11, 12
CREDIT 1/2 Unit
FINAL ASSESSMENT School Exam

Sociology introduces students to the basic patterns of social behavior and the structure and functions of social organizations. Emphasis is placed on research, culture and cultural change, socialization and deviance, population and social stratification, and social institutions.

PERSPECTIVES ON WAR (FIRST SEMESTER) HS1177

GRADE 11,12
CREDIT 1/2 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Global History 10

RECOMMENDED ACHIEVEMENT LEVELS: Success in Global History & Geography 10 with a GPA of 85% or higher

Perspectives on War is an elective designed to provide students with the opportunity to examine combat from a variety of perspectives, from technical to tactical to ethical. Topics considered include the evolution of military technology and its impact, the treatment of the physical and the psychological casualties, motivation and leadership in combat, and the morality of individual conduct during war. Students will be asked to read and interpret a variety of primary sources as well as the writings of respected historians. Additionally, they will view and analyze video resources. Students will be assessed through written assignments that may include essays, reflections and/or journal entries. This course is recommended for students with a strong interest in social studies, particularly military history.

WAR THROUGH THE MEDIA (SECOND SEMESTER) HS1178

GRADE 11, 12
CREDIT 1/2 Unit
FINAL ASSESSMENT School Exam

PREREQUISITE: Global History 10

RECOMMENDED ACHIEVEMENT LEVELS: Success in Global History & Geography 10 with a GPA of 85% or higher

War in the Media is an elective designed to provide students with the opportunity to examine the portrayal of combat through the media, as it is the media which both reflects and shapes the public's perception of war. Students will interpret print and video news, government-sponsored propaganda, and several documentaries and feature films. Students will be asked to read a full text as well as articles written by respected historians. Class discussions and written analyses will be a significant part of their grade. This course is recommended for students with a strong interest in social studies, particularly military history and film.