



Carmel High School Program of Studies

2024/2025

Carmel 6 C's

Critical Thinking, Citizenship, Compassion, Creativity, Collaboration, Communication

CARMEL HIGH SCHOOL
COURSE OFFERING GUIDE
2024-2025

30 FAIR STREET – CARMEL, NY 10512-1398 CEEB CODE #331-235

Prepare for a lifetime of learning. Take the most rigorous courses available.

February, 2024

Dear Students:

The selection of your courses is extremely important and should be done with input from your parents and school counselor. The courses and programs that you select will significantly affect your future academic plans and career goals. Your decision to select courses should be made with the following in mind: your needs and abilities; post-high school academic and career goals; number of credits earned and needed; required subjects and sequences and course availability. All students must pass the English, Mathematics, Global History and American History and a Science Regents Exam in order to graduate.

A student must have 4.5 credits to be a sophomore, 11 credits to be a junior and 16.5 credits to be a senior. English must be passed each year in order to progress to the next grade level. A student is required to take a minimum of 5.5 credits each year to be considered a full-time student and will be ineligible to participate in extracurricular activities with less than a 5.5 credit class load.

Please feel free to contact us if you have any questions or concerns pertaining to the information attached or if you require any additional details. Our administrators and our counseling staff look forward to hearing from you and will be glad to help you at any time. I wish you continued success in your education.

Yours truly,

Brian Piazza

Principal

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Please note: Some classes and Pre-requisites in this handbook may have been updated since the time of publication. Please visit our web page www.carmelschools.org for most recent information.

ALTERNATIVE HIGH SCHOOL COURSE OFFERINGS

English

1 credit

Semester One/Semester Two: Encompasses the areas of literature, composition, grammar, speaking, reading and listening skills aligned with the Common Core Standards. The primary focus of instruction during each semester is literature and nonfiction, which are used as the basis for the development of all the related skills. The classes are taught in back-to-back periods (block schedule).

English Regents Level Program

By New York State mandate, all students are required to pursue a Regents level course of study. By the June of Semester 2 in the A-school, all students are required to take the New York State Regents exam in English Language Arts and graduation is dependent upon achieving a passing grade on the exam.

Semester One: English 10 1 credit

Semester Two: English 11 1 credit

Semester Three: English 12 1 credit

Global History/Geography I

Course #SOC-112 1 credit

Semester One: Emphasis is placed on the study of the non-western world as instruction focuses on the historical, political, economic and cultural development of Asia, Latin America and Africa. Classes are taught in back-to-back periods (block schedule).

Global History/Geography II

Course #SOC-122 1 credit

Semester Two: Emphasis is placed on the study of Europe and the Arab world in the Middle Ages and the development of nation states. Areas of concentration include the Renaissance, Nationalism, the Industrial Revolution, World Wars I and II, the Cold War and period of détente, and current issues. Classes are taught in back-to-back periods (block schedule).

US History/Government

Course #SOC-133 1 credit

Semester One: The social, political and economic developments of our past are interwoven through a topical approach to American History. Areas of concentration include: America's people: immigration, slavery and women's rights. Economics: labor, agriculture and business development. Government: federal, state, division of and separation of powers. Foreign policy. Classes are taught in back-to-back periods (block scheduling).

Law & Economics

Course #SOC-148 1 credit

Semester One: This course acquaints students with the law in various levels of government and its effect on citizens. Constitutional reinforcement of the Bill of Rights is touched upon, but concentration is placed upon everyday application of law. Focus is on local law enforcement agencies: local police, county sheriff's department, town and court judges and citizens' interaction with those agencies. The Economics portion of the course follows the NYSED guidelines and examines three areas: entrepreneurial enterprises, personal finance and theoretical economics. Such basic economic concepts as scarcity, supply and demand, markets, productivity, opportunity, cost, specialization, productive resources and interdependence will be studied. Classes are taught in back-to-back periods (block scheduling).

Child Psychology

Course #SOC-153 .5 credit

Semester One: This course takes a pragmatic approach to developmental problems in infancy, pre-school, childhood, adolescence, adulthood, middle age and old age. Emphasis is placed upon the psychological problems inherent to each stage. Much of the course is based on situational problem solving.

Environmental Biology

Course #SCI-209 .5 credit

Semester One: This half year course explains the differences between renewable and non-renewable energy sources. It will look at examples of these energy sources, advantages and disadvantages of its use and its effect on the environment. Each student will be required to complete several projects related to this field of study.

Animal Behavior

Course #SCI-208 .5 credit

Semester Two: This half year course explains animal behavior in a selected range of topics including communication, cognition, learning, intelligence, defense strategies, predator/prey relationships, mating, sexual selection, social behavior, foraging, migration, the brain and human behavior. Animal anatomy is also explored through in-class and on-line dissections. Research includes training animals, the use of sign language by gorillas and chimpanzees, insect and vertebrate pests and mechanism of various psychoactive drugs on the human brain.

The Living Environment (Biology)

Course #SCI-206 1 credit

Semesters One and Two: Topics included in this course are: the study of life, maintenance of plants and animals, reproduction and development, modern genetics, evolution and ecology. A weekly laboratory program stressing individual work is required part of this course and must be completed before the final examination.

Modern American History I

Course #SOC-158 .5 credit

This course is a political, economic, social and military history of the United States from Pearl Harbor to the present. The intent is to examine the events and issues that challenged Americans to exert leadership within the world community of nations in dangerous times. Special emphasis will be placed on those events from our "recent past."

Modern American History II

Course #SOC-168 .5 credit

This course is a continuation of Modern American History I. Students will discover and explore history as it unfurls. Emphasis is on placed on today's current events.

ART EDUCATION

Studio Art

Course #ART-602 1 Credit

This is an introductory course for those planning on taking further art courses or for those looking for a general visual arts class. This course introduces the basic areas of drawing from real life, painting, printmaking, and calligraphy, with a focus on two-dimensional projects. Art history will also be part of weekly study. All students are required to submit weekly sketchbook assignments. A written examination in June is administered. **Pre-requisite: None**

Mixed Media I

Course #ART-620 1 Credit

This is an introductory class which teaches various art skills and techniques through two-dimensional art projects. Most projects will be works on paper. Projects in a wide variety of mixed media and materials will be explored: paint, colored pencil, metal, paper cutting, printmaking, and pastels. Students will also study different artists and famous artworks from the history of art. Notebooks and completion of assigned projects are required for each marking period. **Pre-requisite: None**

Mixed Media II

Course #ART-623 1 Credit

This is an advanced level class that includes various mixed media techniques. Puppetry, paper mache, mask-making, lantern design, and plaster work are some areas that will be covered. This class is for the person who truly enjoys creating with their own hands. This course may include a final “creative” presentation; the presentation may be cooperative. **Pre-requisite: Mixed Media I OR Teacher Recommendation.**

Drawing & Painting I

Course #ART-607 1 Credit

This is an advanced level class that focuses on refining and expanding drawing techniques, painting abilities, and an awareness of artistic styles. The class focuses on drawing with various media such as pencil, charcoal, pen and ink, and painting using pastel, acrylic, and watercolor. This course is designed for the serious art major. ***Portfolio required for completion.*** **Pre-requisite: Studio Art**

Drawing & Painting II

Course #ART-609 1 Credit

This is an advanced level class that builds and expands on Drawing & Painting I. Students will be encouraged to express themselves in a variety of media while experimenting with styles and techniques. This course is designed for students who are interested in advanced study in art, and in developing a portfolio. ***Portfolio required for completion.*** **Pre-requisite: Drawing & Painting I**

Drawing & Painting III

Course #ART-610 1 Credit

This is an advanced elective for the serious art student who is interested in developing an art portfolio, which will be evaluated at the end of the school year. Students will be encouraged to be inventive and to view art as an ongoing process while investigating formal and conceptual issues. Students will follow a basic course outline, but experimentation with materials and techniques will be encouraged. Emphasis will be on independent study and home assignments. ***Juniors and seniors recommended.*** **Pre-requisite: Drawing & Painting I & II**

Photography

Course #ART-645 1 Credit

This is an elective art course that introduces the basics of film photography. Students will be working in the darkroom learning how to print their own photographs. This is NOT a digital camera class. Students will learn how to use darkroom equipment including various types of cameras, film, paper, and chemicals. Lab periods as well as classroom discussions and critiques will emphasize both the technical and artistic aspects of black and white photography. A portfolio of work is required for completion. ***Juniors and Seniors recommended.*** **Pre-requisite: Intro level art class**

Photography II

Course #ART-655 .5 Credit

This course will be run concurrent with Photography I. This course is providing our students who are interested in the art of photography an opportunity to continue with their work in the darkroom. Students would take the second semester of this course with their fellow classmates who are enrolled in Photography I. This course will allow more students to produce more artwork in the darkroom. **Prerequisite: Photography I. Open to 3 seats (max number in darkroom is 18).**

Advertising Art

Course #ART-675 .5 Credit

This course focuses on exploring existing advertisements. Students will create projects focused on redesigning and modernizing aspects of the advertising world. Some projects include creating packaging, updating logos, and designing album covers. **Pre-requisite: Intro Level Art Class**

Commercial Design & Fashion

Course #ART-676 .5 Credit

Students will explore creative new ways to stand out in the advertising world. Students will explore advertising techniques, create new companies, as well as design and illustrate forward-thinking fashion. **Pre-requisite: Intro Level Art Class**

Graphic Art I

Course #ART-647 1 Credit

This is an introductory level class designed to involve the student in the use of computers as a tool for image making. Students will build on design skills learned in Studio Art to develop visual images. Digital Photography and the use of software programs such as Adobe Photoshop, Coral Draw and PowerPoint will be introduced. This course serves as an introduction to the world of graphic arts with an emphasis on visual media. Accuracy and professionalism are stressed. **Pre-requisite: None**

Graphic Art II

Course #ART-643 1 Credit

Graphic Art II is an advanced course designed for students who have completed Graphic Art This course builds upon the fundamental skills and knowledge acquired at the introductory level. Students will explore more advanced concepts and techniques, further develop their creative problem-solving abilities and visual communication skills with an emphasis on personal expression and portfolio development. Students will have a deeper understanding of advanced design principles, enhanced technical skills in graphic design software, and create designs across various mediums. This course will cover a range of topics including: advanced design principles, advanced software skills, branding and identity, layout and publication design, and portfolio development. **Prerequisite: Graphics I**

Ceramics I

Course #ART-613 1 Credit

This course is designed for students who have an interest in working with clay. Students explore clay through a variety of hand-building techniques and other processes such as glazing, designing, and firing their projects. Students will be creating functional as well as sculptural pieces such as vases, jars, tiles, and bowls. Basic hand-building techniques including pinch, coil, and slab method will be learned. **Portfolio required for completion. Pre-requisite: None**

Ceramics II

Course #ART-615 1 Credit

This is an advanced level course that builds on the foundation of techniques learned in Ceramics I. **Pre-requisite: Ceramics I**

Ceramics III

Course #ART-616 1 Credit

Ceramics three is offered to students who have two years prior knowledge and experience with clay. Students will complete assignments and will work independently on projects such as: wheel-throwing, ceramic sculpture and experimentation with glazes. **Pre-requisite: Ceramics I and II**

SUNY Art of the Ancient World

Course #ART-662 .5 Credit

SUNY WCC Course #ART-108 3 College Credits

This is a three-credit half year Westchester Community College class that is an introduction to ancient art. It is an art history course which examines the materials, design and significance of objects and built structures in ancient cultures around the world. Students acquire skills for analyzing and interpreting works of art in relation to their historical and cultural context. This course will investigate artwork beginning at Prehistory and finish at the end of the Medieval era. ***A student must complete a WCC application prior to enrollment in this class if wanting to receive WCC college credit. There is a WCC fee and an application deadline. This course is open to Juniors and Seniors.***

SUNY Art of the Modern World

Course #ART-663 .5 Credit

SUNY WCC Course #ART-109 3 College Credits

This is a three-credit half year Westchester Community College class that is an introduction to modern and contemporary art. The turn of the 20th century saw an explosion of changes which in turn redefined our visual vocabulary. This course introduces the major artists and movements of 19th and 20th century western art. Avant-Garde art of the 19th century, the rise of high modernism and its subsequent decline in the postmodern era will be examined. Issues considered are artistic intention, spirituality in art, the birth and development of abstraction, art with political agendas and the implicit historic contexts of modern art. ***A student must complete a WCC application prior to enrollment in this class if wanting to receive WCC college credit. There is a WCC fee and an application deadline. This course is open to Juniors or Seniors.***

AP Studio Art-Drawing ±

Course #ART-611 1 Credit

± Not approved by NCAA

This is an advanced level course designed for the serious and/or college bound art major. This course will focus on individualized instruction, helping students to assemble a college portfolio. The course will prepare students for meeting portfolio requirements for an Advanced Placement Exam. All students are required to pay a fee to take the AP exam in the spring. **Pre-requisite: Teacher Recommendation**

Portfolio Preparation

Course #ART-650 1 Credit

This is an advanced level course designed to provide the serious and/or college bound art major with the opportunity to create a portfolio of artwork. Through individualized instruction the class will introduce students to the requirements of an AP and/or college portfolio and help them develop their individual styles. This class focuses on drawing and painting and working two-dimensionally. **Pre-requisite: One year of Drawing & Painting AND/OR a Teacher Recommendation.**

Illustration for Cartooning and Graphic Novels

Course#ART-652 1 Credit

This is an advanced art course which focuses on the requirements of illustration and cartooning necessary to complete a graphic novel. Students will build on design and drawing skills learned in Studio Art to develop visual images for sequential art. The course serves as an introduction to illustration and cartooning art with an emphasis on the areas of character construction, graphic design, sequential storytelling, and the history of comics. Accuracy and professionalism are stressed. **Pre-requisite: Studio Art OR Teacher Recommendation**

CAREER & TECHNICAL EDUCATION (CTE) DEPARTMENT (BUSINESS EDUCATION)

Career and Technical Education (CTE) Endorsement

CTE is a New York State Education Department certified program that allows students to receive a prestigious endorsement on their diploma after meeting specific course requirements. As a result, our students will become more marketable in their college and/or career search. Detailed CTE requirements are available on our Career & Technical Education Department Website Page at www.carmelschools.org

<i>Core Courses</i>	<i>Choose 2 Credits from the following</i>
Math & Financial Applications (1 Credit) College Management (.5 Credit) College Sports & Entertainment Marketing (.5 Credit) College Business Law (.5 Credit) College Business Economics (.5 Credit)	Digital Media (.5 Credit) College Accounting (1 Credit) Skills for Your Future (.5 Credit) Career & Financial Strategies (1 Credit)

Business Honor Society (BHS)

The New York State Education Department's primary purpose of the Business Honor Society is to recognize those students who have demonstrated outstanding achievement in a secondary business marketing program. Detailed BHS requirements are available on our Business Department Website Page at www.carmelschools.org

Digital Media

Course #BUS-538 .5 Credit

This course focuses on technology using Microsoft Office 365. This course is a great foundation for any future career. **Pre-Requisite: None**

Skills for Your Future

Course #BUS-539 .5 Credit

This course focuses on Real World Applications using Excel and PowerPoint. This course is a great entry level course for the rest of your high school courses. This course is a great foundation for any future career. **Pre-Requisite: None**

SUNY College Accounting

CHS Course #BUS-565 1 H.S. Credit

WCC Course #ACC-119 (Financial Accounting) 4 College Credits

This course introduces students to the real world of accounting in today's business environment. This course provides a thorough knowledge of basic accounting concepts and procedures. Students advance from manual accounting to computerized accounting. This class is a stepping-stone for those entering the field of accounting or majoring in Business Administration in college. ***This course can be used to fulfill one of the mathematics requirements for graduation. This course can be taken for college credit (4 credits) through Westchester Community College (WCC). There is a WCC fee and an application deadline. Open only to juniors and seniors.*** **Pre-requisite: None**

College Business Law

CHS Course #BUS-570 .5 H.S. Credit

STAC Course #BUSA-205 (Business Law I) 3 College Credits

The focus of this course is on the practical application of the law in our day-to-day business activities. This includes the study of the court system; court procedures; rights and responsibilities of citizens; contract law; insurance; employment; wills and estates; and renting and buying real property. ***This course can be used to fulfill the Law requirement for graduation. This course can be taken for college credit (3 credits) through St. Thomas Aquinas. There is a fee and an application deadline (September). Open only to juniors and seniors.*** **Pre-requisite: None**

College Management

CHS Course #BUS-595 .5 H.S. Credit

STAC Course #MGT-121 (Management & Organization) 3 College Credits

This course will involve a hands-on learning experience in: responsibility, management, personal development, citizenship and communications. Students will plan, organize and execute successful projects that will utilize these goals. Such projects include: Public Speaking, Entrepreneurship, Decision Making Case Studies, and International Business. This is a great half-year course for business majors. ***This course can be taken for college credit (3 credits) through St. Thomas Aquinas. There is a fee and an application deadline (September). Open only to juniors and seniors.*** **Pre-requisite: None**

College Sports & Entertainment Marketing

CHS Course #BUS-555 .5 H.S. Credit

STAC Course #MKT-102 (Principles of Marketing) 3 College Credits

This course is designed for students who are interested in the field of Marketing from the perspective of Sports and Entertainment. This course will teach the basic principles and practices of marketing as they relate to everyone as a consumer and worker. Included in this course are: the functions of marketing, research, promotion and management. Students will have the opportunity to plan sales presentations and begin making career choices in the field of marketing. ***This course can be taken for college credit (3 credits) through St. Thomas Aquinas. There is a fee and an application deadline (January). Open only to juniors and seniors.*** **Pre-requisite: None**

Math & Financial Applications

Course #BUS-510 1 Credit

This course is designed to prepare students for college level business programs and an understanding of the complex financial world that they will encounter during their lives. It will provide an overview of the consumer and his/her need for informed personal financial decisions. Topics include: money management, budgeting, saving & investment, taxes, credit cards, and interest rates just to mention a few. ***This course can be used to fulfill one of the mathematics requirements for graduation.*** **Pre-requisite: Successful completion of Algebra.**

College Business Economics

Course #BUS-512 .5 H.S. Credit

STAC Course #BUSA-207 (Personal Financial Management) 3 College Credits

This course provides an overview of how the economy works in order for students to make informed personal financial decisions & judgments. Topics include: Supply/Demand, Scarcity, economic systems, money management and planning, budgeting, tax planning credit and borrowing, saving and investment, housing, taxes, and retirement and estate planning. ***This course can be used to fulfill the Economics requirement for graduation. This course can be taken for college credit (3 credits) through St. Thomas Aquinas. There is a fee and an application deadline (January). Open only to juniors and seniors.*** **Pre-requisite: None**

Career & Financial Strategies

Course #BUS-522 1 Credit

This course teaches the skills and knowledge that all students need for career and college readiness. It is also designed to help incoming freshmen make the transition from the Middle School to the High School through the use of activities that include an orientation to the High School, study skills, self-assessment and team building. Students will explore careers and develop workplace skills to ensure effective job performance. During this course, the students will complete working papers, create a resume, fill out a job application, prepare for an interview and develop financial literacy which will include budgeting, checking accounts and credit cards. **Pre-requisite: Required for the ninth-grade curriculum as the student's schedule permits.**

ENGLISH

High School English encompasses the areas of literature, composition, spelling, grammar, speaking, reading and listening skills. The primary focus of instruction at each grade level is literature and nonfiction which is used as the basis for the development of all of the related skills.

Regents Level Program:

By New York State mandate, all students are required to pursue a Regents level course of study. Beginning with their freshman year, students are immersed in Regents preparation. By June of junior year, all students are required to take the New York State Regents exam in English Language Arts (Common Core) and graduation is dependent upon achieving a passing grade on that exam.

English 9

Course #ENG-052 1 Credit

In English 9, students embark on their first step in the high school English curriculum, exploring a diverse range of literary works. This course includes a variety of texts such as novels, plays, nonfiction, and poetry, each chosen to introduce key literary concepts and themes. The curriculum focuses on developing foundational skills in English writing and analysis. Students will learn to construct essays, interpret texts, and present their ideas coherently. These skills are integral to their success in high school, particularly in preparation for the New York State English Regents exam to be taken in 11th grade. Through reading, writing, and critical discussion, students in English 9 will gain a deeper understanding of literature and its role in reflecting and shaping our world.

English 10

Course #ENG-062 1 Credit

In 10th Grade English, students continue to develop their understanding and appreciation of literature, building upon the foundation laid in English 9. This course offers a diverse selection of literary works, including novels, plays, nonfiction pieces, and a variety of poetry. These texts are chosen to broaden students' literary horizons and deepen their critical thinking skills. A significant focus of the course is enhancing students' writing abilities and analytical skills. Students will engage in essay writing, exploring complex themes and developing arguments. This class is designed to prepare students for the demands of the New York State English Regents exam and higher-level English courses. Through a blend of reading, analytical discussions, and writing exercises, 10th Grade English aims to refine students' literary skills and prepare them for the challenges of advanced English studies.

English 11

Course #ENG-071 1 Credit

English 11th Grade is a pivotal year where students further advance their literary knowledge and writing skills, leading up to the New York State English Regents exam. This course is tailored to provide comprehensive preparation for this crucial assessment, which students will take at the end of the year and must pass in order to graduate. The curriculum is centered around a wide-ranging collection of literary works, including novels, plays, nonfiction, and poetry. These texts serve as the basis for deepening students' critical analysis and interpretation skills. A core element of 11th Grade English is mastering essay writing, with a particular emphasis on the argument essay and the literary analysis essay. Students will learn to construct compelling arguments, support them with evidence, and articulate their thoughts in a clear, concise manner. This skill set is not only essential for success on the Regents exam but also vital for future academic and professional endeavors. In addition to literary studies and essay writing, students will engage in regular practice exams and targeted exercises to familiarize themselves with the Regents format and expectations. By the end of 11th Grade English, students will be well-prepared for the New York State English Regents and possess a strengthened ability to analyze and articulate complex ideas.

English 9H

Course #ENG-051 1 Credit

Students in the honors program should demonstrate outstanding potential in the language arts. They should also have a good work ethic, combined with excellent reading and writing skills. **Pre-requisite: A minimum 90 overall average in 8th grade English to sit for entrance exam is required. Teacher recommendation and entrance exam (Writing/Reading Comprehension) will determine final placement.**

English 9 Workshop

Course #ENG-093 .5 Credit

For those 9th graders who earned below grade level on the Aimsweb Assessment, English workshop is strongly recommended. Other factors to be considered will be scores in English 8 and teacher recommendation and/or GFMS counselor recommendation. The English Workshop teachers will use ACHIEVE 3000 and other reading comprehension strategies and resources to assess the needs of each student, to discover the best way to help the student improve their literacy skills and boost their reading level. The main emphasis of the class will be on practicing reading strategies to improve reading comprehension and reading fluency. The course meets every other day.

English 10H

Course #ENG-061 1 Credit

Students in the honors program have shown outstanding performance in language arts. The reading level of the honors student should be at least two years above grade level. Admission to the honors program is through a selective screening process. A most important component for honors placement is a good work ethic on the part of the candidate. **Pre-requisite: A minimum 90 overall average in English 9 (85 overall average for students in 9 Honors) to sit for entrance exam is required. Teacher recommendation and entrance exam (Writing/Reading Comprehension) will determine final placement. English 10H students are required to take the NYS English Regents in June.**

English 10 Workshop

Course #ENG-094 .5 Credit

For those 10th grade students who took English 9 Workshop and have a Lexile score less than 1100 at the end of 9th grade, this course is mandatory. Other factors to be considered will be scores in English 9 and teacher recommendation. The English Workshop teachers will use ACHIEVE 3000 to assess the needs of each student to discover the best way to help the student excel in English. The emphasis will be on practicing reading strategies to improve reading comprehension and reading fluency. The course will also help students to improve their writing skills.

AP English Language & Composition

Course #ENG-072 1 Credit

This course is recommended for students in the 11th grade. The course concentrates on reading and writing about non-fiction genres. Students enrolled in this program are required to take the AP exam at the end of the school year. Success in this examination qualifies a student to receive college credit. This is subject to determination by the individual college. AP English sections require the student complete a summer assignment before the start of the course. ***All students are required to pay a fee to take the AP exam in the spring.*** **Pre-requisite: A minimum 90 overall average in last year's English (85 overall average for students in 10H) to sit for entrance exam is required. Teacher recommendation and entrance exam (Writing/Reading Comprehension) will determine final placement.**

English 12

Course #ENG-080 .5 credit Semester 1(merged with .5 elective choice in semester 2)

This course is NCAA Approved

In this course we will use the writing process, employ specific and focused thesis statements, develop multiple body paragraphs with full and detailed support and integrate source material into a text and document it correctly (MLA format). We will write unified and coherent essays using a variety of rhetorical forms and prepare students for the college application process by focusing on writing college application essays. Reading skills will include learning to establish purpose for reading and adjust purpose while reading, using the text and making and justifying inferences from explicit and/or implicit information. We will also learn to distinguish between fact and opinion. Students will also be able to discuss and respond to text making text-to-text, text-to-self and text-to-world conclusions and understand how specific rhetorical devices establish meaning.

AP English Literature & Composition

Course #ENG-081 1 Credit

AP English Literature concentrates on writing about imaginative literature. Students enrolled in this program are required to take the AP exam at the end of the school year. Success in this examination qualifies a student to receive college credit. This is subject to determination by the individual college. AP English sections require the student complete a summer assignment before the start of the course. ***All students are required to pay a fee to take the AP exam in the spring.*** Pre-requisite: A minimum 90 overall average in last year's English (85 overall average for students in 11 AP) to sit for entrance exam is required. Teacher recommendation and entrance exam (Writing/Reading Comprehension) will determine final placement.

Bridges to 9th Grade English

Course #ENG-043 1 Credit

Integrated ENL/ELA is a Language Arts focused curriculum, designed around three thematic units with rich essential questions. Students read engaging texts above their independent reading levels and build academic thinking, language, and literacy skills. Integrated ENL/ELA Teachers apply Gradual Release of Responsibility as a scaffold. It supports teachers to make input accessible, differentiate instruction, demonstrate academic ways of thinking, and encourage student independence. ***Available only to ENL students.***

ELECTIVES:

SUNY English 101 and SUNY English 102

Course #ENG-WCC 1 CHS Credit Semester 1 & 2

WCC Course Eng-101(Comp. I) & Eng-102(Comp. II) 6 WCC College Credits These courses are NCAA Approved

English 101 concentrates primarily on expository and argumentative writing, traditional rhetorical modes, and effective composing, revising, and editing strategies. This is an intensive writing course. A research paper is required. ***There is a SUNY fee and registration deadline.*** Pre-requisite: 3 years of an overall high school 85+ GPA or 2+ years of an 85 GPA in English or 85+ on the NYS English Regents or a PSAT/ SAT score of 550+ on the English section. Students must also complete any summer assignments and sign an academic contract with their instructor.

English 102 is a continuation of ENG 101, with further study of the resources of the language through a critical analysis of imaginative forms of writing. Genre reading will include fiction, poetry, and drama. ***A student must complete WCC application prior to enrollment in this class. There is a SUNY fee and an application deadline.*** Pre-requisite: a 75+ in SUNY English 101

SUNY Speech 100: Foundations of Communication ±

Course #ENG-075 .5 Credit Semester 1 or 2

DCC Course SPE-100 3 college credits

±Not approved by NCAA

This is a three credit Dutchess Community College course that is designed to develop students' knowledge and skills pertaining to the fundamental theories, concepts, vocabulary, and practices related to the discipline of communication. Topic areas the course addresses include the process of communication, as well as verbal, nonverbal, listening, interpersonal, small group, intercultural, organizational, public, and mediated forms of communication. ***A student must complete DCC application prior to enrollment in this class. There is a DCC fee and an application deadline.*** Pre-requisite: Open to Juniors and Seniors with an 80% overall average in their last year's English class. ±

SUNY Speech 101-Public Speaking

CHS Course #ENG-095 .5 Credit Semester 1 or 2

DCC Course SPE-101 (Public Speaking) 3 college credits

This course is NCAA Approved

This course is devoted to the study of oral communication as it relates to the speaker, her/his purpose, subject, outline, presentational aids, delivery and audience. The first part of the course emphasizes the theory of public speaking, while the latter part is concerned with the analysis, preparation and performance in the areas of informative, demonstrative, persuasive and occasional speaking. ***A student must complete DCC application prior to enrollment in this class. There is a DCC fee and an application deadline.*** Pre-requisite: This course is open to Juniors and Seniors with an 80% overall average in their last year's English class.

Creative Writing

Course #ENG-099 .5 Credit Semester 2

This course is NCAA Approved

This course is divided into four main units: poetry, short fiction, play-writing and personal narrative. During the course of their first semester, we engage in painting, coloring, designing collages, active reading and, of course, writing, all as a means of exploring self-expression. The emphasis of this class is on the student becoming open to creativity and sharing work with others. The second semester is designed primarily as a combination of independent written exploration and workshop in small groups. The student's focus is to explore, in depth, an area of writing they experienced during their first semester, compiling a semester-long portfolio of work. The four areas of focus are poetry, short fiction (or the start of a much larger piece), a one act play (or the start of a full-length play, or a collection of personal essays. In this course students will experience more student-teacher workshop time and concentrate on publishing. While the focus is not the traditional study of essay writing, grammar, or reading literature, all of the NYS Standards for ELA are upheld. ***This course is open to Seniors only. Pre-requisite: None***

Mythology

Course #ENG-086 .5 Credit Semester 2

This course is NCAA approved

The mythology of a people is far more than a collection of charming or terrifying tales. It is the commentary of men and women of one particular age or civilization on the mysteries of human existence and the human mind, their model for social behavior, and an attempt to understand the chaotic world around them. These are wonderful stories, rich in surprising incidents, unusual characters, and hidden meanings. While Greek and Roman gods will be the main focus, gods of the Northland and of Celtic Fairyland will also be touched upon. The course will require both analytical and critical writing based upon the tales of love, betrayal, heroism and adventure that students will be reading. ***Open to Juniors and Seniors only. Pre-requisite: None***

English 12/Film and Media ±

Course #ENG-083 .5 Credit ± Not approved by NCAA

Students will explore the “syntax” of film through a historical survey of the evolution of this very modern art. They will read criticism, theory and screenplays to develop a clear understanding of the many facets of the forum. During the course of the year, we will take a historical perspective, study genre and conduct case studies on the business of producing and promoting film. Projects will include: screenplays, critical anthologies and treatments. We will conduct three “book to film” studies using classic and contemporary literature. ***Open to Seniors only. Pre-requisite: None***

Writing for the Real World

Course #ENG-060 .5 credit

In the rapidly evolving landscape of the 21st century, effective communication skills have become indispensable. Writing, in particular, remains a cornerstone of communication, transcending traditional classroom essays and academic papers. To prepare high school seniors for the real-world challenges they will face in college, the workforce, and everyday life, it is essential to offer a specialized 12th-grade writing course. This course is designed to equip students with practical, applicable, and transferable writing abilities that extend beyond the classroom. By focusing on skills such as crafting resumes, composing professional emails, creating persuasive business proposals, writing online reviews, conducting self-guided research, and grasping the basics of journalism, this course will empower students to excel in their personal and professional lives.

Media Literacy

Course #ENG-059 .5 Credit

In today's digital age, information about the world around us can come in many different formats. In this class, students will learn to look at various types of media with a critical eye. Students will examine, interpret, and evaluate information; ask important questions about the intended purpose of messages; and learn concrete strategies for checking for credibility and bias. **Not open to Freshman**

SAT/ACT English and Math Preparation Course

Course #MAT/ENG SAT .25 Credit

This is a one quarter course that prepares students intending to take the SAT and ACT exam with a comprehensive blueprint to the Reading, Writing and Language; and Mathematics content on the exam.

Course Overview:

- Initial diagnostic exam for assessment of individual strengths, weaknesses, and goals.
- Introduction to the Reading test: strategies for passage reading and introduction to vocabulary building.
- Introduction to the Writing Test: strategies for answering multiple-choice questions, and review of important grammar rules.
- Introduction to Math Test: strategies for multiple-choice and grid-in questions, and review of basic math concepts.
- If time permits: Introduction to OPTIONAL Essay: strategies for structuring and writing an essay, and class review of sample prompts and analysis.

Please note: This class is quarter credit (.25) and pass/fail.

ENL - ENGLISH AS A NEW LANGUAGE

ENL Instruction

Course #ENG-049 1 Credit

In this class, students will receive instruction to develop skills in English in listening, speaking, reading and writing to help them achieve proficiency in the language.

ENL Support

Course #ENG-050

1 Credit

In this class, students will receive assistance with their assignments and homework from their academic classes.

ENL Bridges – Stand Alone

Course #ENG-044

1 Credit

This course is designed to develop foundational English language, reading, and writing skills through four rotating centers targeted to different student literacy needs. Students develop oral English, and as readers and writers, through whole class mini-lessons, small group instruction, and daily independent practice. ***Available only to ENL students.***

Bridges Math

Course #MAT-309

1 Credit

The Bridges Math curriculum uses a Guided Math approach in which students are administered a pre-assessment to measure their current knowledge and skill level for the unit and then are assigned to teacher-led and independent student work centers based on their skill level. Students travel from center to center in homogeneous groups based on their skill level. This curriculum also focuses on the language of mathematics so there is a strong emphasis on mathematical vocabulary and metacognitive awareness of mathematical problem solving and students' strengths and weaknesses. The Bridges Math curriculum also includes social-emotional learning targets that are explained throughout the lesson plans. ***Available only to ENL students.***

Bridges to 9th Grade English

Course #ENG-043

1 Credit

Integrated ENL/ELA is a Language Arts focused curriculum, designed around three thematic units with rich essential questions. Students read engaging texts above their independent reading levels and build academic thinking, language, and literacy skills. Integrated ENL/ELA Teachers apply Gradual Release of Responsibility as a scaffold. It supports teachers to make input accessible, differentiate instruction, demonstrate academic ways of thinking, and encourage student independence. ***Available only to ENL students.***

MATHEMATICS

Algebra I R

Course #MAT-312

1 Credit

Algebra I is the first mathematics course in high school and the focal point is functions; specifically, linear, quadratic, and exponential functions. Students analyze and explain precisely the process of solving an equation. Through reasoning they develop fluency writing, interpreting, and translating between various forms of linear equations and inequalities and make conjectures about the form that a linear equation might take in a solution to a problem. They reason abstractly and quantitatively by choosing and interpreting units in the context of creating equations in two variables to represent relationships between quantities. They master the solution of linear equations and apply related solution techniques and the properties of exponents to the creation and solution of simple exponential equations. *The New York State Algebra I Regents exam will be administered in June as a part of this course. A passing grade in this course and on the Regents exam is required for graduation in New York State.* **Pre-requisite: None**

Algebra I Extended 9 ±

Course #MAT-314

1 Credit

± Not approved by NCAA

This course accommodates those students whose basic mathematical skills need reinforcement. Algebra I topics will be covered over a two-year time span with this course being the first of the two courses. Students who successfully complete this course will take Algebra Extended 10 the following school year, where they will take the NYS Algebra I Regents exam in June. **Pre-requisite: None**

Algebra I Extended 10

Course # MAT-324 1 Credit

This course is a continuation of Algebra I Extended 9 (MAT-314). It is specifically designed for students whose basic mathematical skills need reinforcement. There will be an emphasis on fundamental Algebra skills, problem solving, and number sense. *The New York State Algebra I Regents exam will be administered in June as a part of this course. A passing grade in this course and on the Regents exam is required for graduation in New York State.*

Pre-requisite: Successful completion of Algebra I Extended 9.

Geometry R

Course # MAT-322 1 Credit

Geometry is intended to be the second course in mathematics for high school students. During high school, students begin to formalize their geometry experiences from elementary and middle school, using more precise definitions to establish the validity of geometric conjectures through deduction, proof, or mathematical arguments. Over the year, students develop an understanding of the attributes and relationships of two- and three-dimensional geometric shapes that can be applied in diverse contexts. **Pre-Requisite: Successful completion of Algebra I R including a passing grade on the Algebra I Regents Exam.**

Quantitative Geometry

Course # MAT-327 1 Credit

This course is designed to expose students to the study of geometry while accommodating those students whose basic mathematical skills need reinforcement. Algebraic skills are strengthened when algebraic methods are applied to problem solving of real-world geometric situations. **Pre-requisite: Successful completion of Algebra I OR Algebra I Extended 10 including a passing grade on the Algebra Regents exam.**

Geometry H

Course # MAT-311 1 Credit

Geometry is intended to be the second course in mathematics for high school students. During high school, students begin to formalize their geometry experiences from elementary and middle school, using more precise definitions to establish the validity of geometric conjectures through deduction, proof, or mathematical arguments. Over the year, students develop an understanding of the attributes and relationships of two- and three-dimensional geometric shapes that can be applied in diverse contexts. This course is a more rigorous and extensive study of the topics covered in Geometry R. **Pre-requisite: 85% Final Average in Algebra I (GFMS).**

Foundations of Calculus 1 – Geometry/Algebra 2

Course # MAT-328 1 credit

This course is NCAA Approved

Foundations of Calculus 1 is the first year of an intensive two-year program covering the concepts in Geometry, Algebra 2, Trigonometry, and Pre-Calculus. Successful completion of the program will culminate in the student taking one of our current Calculus offerings (AP Calculus BC, AP Calculus AB, or SUNY Calculus). The first year will focus on content in Geometry and Algebra 2 with an emphasis on Trigonometry. **Note: Foundations of Calculus 1 is only open to 10th grade students. Prerequisite: Must meet the minimum requirements established in the entrance criteria which can be found on the Carmel High School Mathematics Department website.**

Algebra II R

Course # MAT-332 1 Credit

Algebra II is the capstone course of the three high school mathematics courses and is a continuation and extension of the two courses that precede it. Building on their work with linear, quadratic, and exponential functions in Algebra I, students in Algebra II extend their repertoire of functions to include polynomial, rational, radical, and trigonometric functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers, and solving exponential equations using the properties of logarithms. **Pre-requisite: Successful completion of Geometry R.**

Algebra II H

Course # MAT-321 1 Credit

Algebra II is the capstone course of the three high school mathematics courses and is a continuation and extension of the two courses that precede it. Building on their work with linear, quadratic, and exponential functions in Algebra I, students in Algebra II extend their repertoire of functions to include polynomial, rational, radical, and trigonometric functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers, and solving exponential equations using the properties of logarithms. Additional topics will be covered from Trigonometry along with several topics from Pre-Calculus. This course is a more rigorous and extensive study of the topics covered in Algebra II R. **Pre-requisite: 85% final average in Geometry Honors OR 90% final average in Geometry.**

Algebra II

Course # MAT-333 1 Credit

The purpose of this course is to provide students with a basic knowledge for career and/or college readiness. Students will be given the opportunity to strengthen existing algebra skills while learning new concepts and skills. Students will study equations and inequalities, systems of equations and inequalities, complex numbers, functions and their inverses including exponential and logarithmic, polynomial, rational, trigonometric and exponential and logarithmic. **Pre-requisite: Successful completion of Quantitative Geometry OR Geometry R.**

Foundations of Calculus 2 – Algebra 2/Pre-Calculus

Course # MAT-329 1 credit

This course is NCAA Approved

Foundations of Calculus 2 is the second year of an intensive two-year program covering the concepts in Geometry, Algebra 2, Trigonometry, and Pre-Calculus. Successful completion of the program will culminate in the student taking one of our current Calculus offerings (AP Calculus BC, AP Calculus AB, or SUNY Calculus). The second year will focus on the content in Algebra 2 and Pre-Calculus with an emphasis on Trigonometry. **Note: Foundations of Calculus 2 is only open to 11th grade students that have successfully completed year one, Foundations of Calculus 1. Prerequisite: Successful completion of Foundations of Calculus 1**

SUNY Pre-Calculus

Course # MAT-360

1 Credit

WCC Course# MATH161: Pre-Calculus

4 College Credits

A detailed analysis of transcendental functions essential to the mastery of a follow-up course in calculus. Topics include Exponential Functions, Logarithmic Functions, Right Triangle Trigonometry, Trigonometric Functions, Trigonometric Identities, Applications of Trigonometric Functions, and Conic Sections. *This course can be taken for 4 college credits through SUNY at Westchester Community College.* **Prerequisite to take the class: Successful completion of Algebra IIR. Prerequisite to take the class for SUNY WCC Credit: 580+ on PSAT/SAT OR Average of 80+ in three high school mathematics courses AND 75 + in Algebra IIR.**

Advanced SUNY Pre-Calculus

Course # MAT-373

1 Credit

WCC Course # MATH161: Pre-Calculus

4 College Credits

This course is intended primarily for students planning to take calculus. Topics include a study of functions, specifically: linear, polynomial, rational, trigonometric, exponential, logarithmic, and inverse functions. Modeling and data analysis techniques are also employed. Conceptual understanding is emphasized and algebraic skills are reinforced throughout the course. *This course can be taken for 4 college credits through SUNY at Westchester Community College.* **Pre-Requisite: 85% final average in Algebra II Honors OR successful completion of SUNY College Pre-Calculus OR 90% final average in Algebra II R.**

SUNY Statistics

Course # MAT-354

1 Credit

WCC Course # MATH140: Statistics

4 College Credits

A general introduction to statistical methods for students in all academic disciplines. Topics include: descriptive methods and the presentation of data, a thorough treatment of the basic concepts of probability, techniques of statistical inference and decision-making through hypothesis testing, the methods of correlation and regression analysis, and the application of non-parametric methods in various subject areas. *This course can be taken for 4 college credits through SUNY at Westchester Community College.* **Prerequisite: 80+ on NYS Regents exam (Algebra, Geometry OR Algebra II) OR 530 + on PSAT/SAT OR Average of 80+ in three high school mathematics courses AND 75 + in Algebra II.**

SUNY Calculus I

Course # MAT-355

1 Credit

WCC Course # MATH 18: Calculus I

4 College Credits

This course introduces differential and integral calculus using polynomials, exponential, logarithmic, and trigonometric functions. Topics include: Concept of Limit; understanding and applying the definition of a derivative; analyzing curves of functions; related rates; optimization applications; Rolle's Theorem; Mean Value Theorem; differentiation and integration of algebraic, trigonometric, logarithmic, exponential and other transcendental functions; antiderivatives of algebraic and trigonometric functions; Riemann Sums, the definite integral and the definition of area; Fundamental Theorems of Calculus and the area under a curve; integration using u-substitution. *This course can be taken for 4 college credits through SUNY at Westchester Community College.* **Pre-Requisite: Successful completion of SUNY College Pre-Calculus OR Advanced SUNY College Pre-Calculus.**

AP Calculus AB

Course # MAT-344 1 Credit

AP Calculus AB is roughly equivalent to a first semester college calculus course. The AP course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. This course is intended to be challenging and demanding. *All students are required to pay a fee to take the AP exam in the spring.* College credit may be awarded to students who pass this exam. **Pre-requisite: 85% final average in Advanced SUNY College Pre-Calculus.**

AP Calculus BC

Course # MAT-340

1 Credit

AP Calculus BC is roughly equivalent to both first and second semester college calculus course and extends the content of AP Calculus AB to different types of equations and introduces the topic of sequences and series. Common topics require a similar depth of understanding. This AP course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. This course is intended to be challenging and demanding. All students are required to pay a fee to take the AP exam in the spring. College credit may be awarded to students who pass this exam. **Pre-requisite: 90% final average in Advanced SUNY College Pre-Calculus.**

College Essentials in Mathematics ±

Course # MAT-370

1 Credit

± Not approved by NCAA

College Essentials in Mathematics will emphasize the understanding of mathematics concepts rather than just memorizing procedures. Students learn the context behind procedures and understand why to use a certain formula or method to solve a problem. By engaging students in real-world applications, this course develops critical thinking skills that students will use in college and their careers. Topics studied in this course will include number theory, logic, scale modeling, an introduction to the history of Mathematics, mathematics in the real world. **Pre-requisite: Successful completion of Algebra II OR Algebra II R.**

SUNY College Algebra

Course # MAT-356

1 Credit

WCC Course # MATH131: College Algebra

4 College Credits

An introduction to algebraic functions and their graphs, solving equations that involve algebraic functions, and the use of function notation. Topics include Linear Functions, Quadratic Functions, Polynomial Functions, Rational Functions, Radical Functions, and Systems of Linear Equations. *This course can be taken for 4 college credits through SUNY at Westchester Community College.* **Prerequisite to take the class: Successful completion of Algebra II or Algebra IIR. Prerequisite to take the class for SUNY WCC Credit: 80+ on NYS Regents exam (Algebra, Geometry or Algebra II) OR 530+ on PSAT/SAT OR Average of 80 + in three high school mathematics courses AND 75 + in Algebra IIR.**

Bridges Math

Course # MAT-309

1 Credit

The Bridges Math curriculum uses a Guided Math approach in which students are administered a pre-assessment to measure their current knowledge and skill level for the unit and then are assigned to teacher-led and independent student work centers based on their skill level. Students travel from center to center in homogeneous groups based on their skill level. This curriculum also focuses on the language of mathematics so there is a strong emphasis on mathematical vocabulary and metacognitive awareness of mathematical problem solving and students' strengths and weaknesses. The Bridges Math curriculum also includes social-emotional learning targets that are explained throughout the lesson plans. *Available only to ENL students.*

AP Computer Science A

Course # MAT -352

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. **Pre-Requisite: Successful completion of Algebra I R**

SAT/ACT English and Math Preparation Course

Course # MAT/ENG SAT

.25 Credit

This is a one quarter course that prepares students intending to take the SAT and ACT exam with a comprehensive blueprint to the Reading, Writing and Language; and Mathematics content on the exam.

Course Overview:

- Initial diagnostic exam for assessment of individual strengths, weaknesses, and goals.
- Introduction to the Reading test: strategies for passage reading and introduction to vocabulary building.
- Introduction to the Writing Test: strategies for answering multiple-choice questions, and review of important grammar rules.
- Introduction to Math Test: strategies for multiple-choice and grid-in questions, and review of basic math concepts.

Please note: This class is quarter credit (.25) and pass/fail.

MUSIC

Freshman Band

Course #MUS-660 1 Credit

This course is designed to provide a performance experience for all ninth-grade woodwind, brass, and percussion players in a band setting. Students will receive basic skill development on their instrument as well as further development of musicianship and notational skills through the performance of appropriate band repertoire. Music of a variety of styles will be covered. This ensemble performs several times a year. **Pre-requisite: Sufficient proficiency on a band instrument.**

Freshman Band Honors

Course #MUS-660H 1 Credit

Students enrolled in the honors section will choose a solo with teacher approval and submit a biographical and historical report on the composer and composition with final performance in marking period 4. During the second and third marking periods students will prepare two different sections of the same solo. The final assignment will be to upload an audio/video recording of the performance with accompaniment for summative evaluation by the music faculty. **Pre-requisite: Teacher Recommendation**

Concert Band

Course #MUS-661 1 Credit

This course is designed to provide a performance experience for all woodwind, brass, and percussion players in a band setting. Students will focus on skill development on their instrument, as well as further development of musicianship and notational skills through the performance of appropriate band repertoire. Music of a variety of styles will be covered. This ensemble performs several times a year.

Concert Band Honors

Course #MUS-661H 1 Credit

Students enrolled in the honors section will choose a solo with teacher approval and submit a biographical and historical report on the composer and composition with final performance in marking period 4. During the second and third marking periods students will prepare two different sections of the same solo. The final assignment will be to upload an audio/video recording of the performance with accompaniment for summative evaluation by the music faculty. **Pre-requisite: Teacher Recommendation**

SUNY Wind Ensemble

Course #MUS-681 Credit

WCC Course #MUSIC 132 2 College Credits

This course is designed to provide an advanced-level performance experience for all woodwind, brass, and percussion players in a band setting. Students will receive advanced skill development on their instruments as well as further develop their musicianship and notational skills through the performance of appropriate band repertoire. This is the most select of the school's three bands. Music of a variety of styles will be covered. This ensemble performs several times a year. ***A student must complete a WCC application prior to enrollment in this class if wanting to receive WCC college credit. There is a WCC fee and an application deadline.*** **Pre-requisite: Audition, grades 10 - 12.**

SUNY Treble Chamber Choir

Course #MUS-682 1 Credit

WCC Course# MUSIC 130 2 College Credits

This course is designed to provide a performance experience for vocalists in a treble setting. This chorus is only open to Treble Voices. Students will focus on vocal development, as well as further refinement of musicianship and notational skills through the performance of appropriate choral repertoire. This ensemble performs several times a year. Music of a variety of styles will be covered. ***A student must complete a WCC application prior to enrollment in this class if wanting to receive WCC college credit. There is a WCC fee and an application deadline. Pre-requisite: Audition, grades 10 - 12. Pre-requisite: Audition or placement by music staff based on participation in chorus the previous year, open to grades 10-12.***

Carmel Chorus

Course #MUS-663 1 Credit

This course is designed to provide a performance experience for vocalists in a mixed choir setting. Students will focus on vocal development, as well as further refinement of musicianship and notational skills through the performance of appropriate choral repertoire. This ensemble performs several times a year. Music of a variety of styles will be covered. All freshman chorus members participate in Carmel Chorus, in addition to upper classmen.

Carmel Chorus Honors

Course #MUS-663H 1 Credit

Students enrolled in the honors section will choose a solo with teacher approval and submit a biographical and historical report on the composer and composition with final performance in marking period 4. During the second and third marking periods students will prepare two different sections of the same solo. The final assignment will be to upload an audio/video recording of the performance with accompaniment for summative evaluation by the music faculty. **Pre-requisite: Teacher Recommendation**

SUNY Concert Choir

Course #MUS-683 1 Credit

WCC Course #MUSIC 130 2 College Credits

This course is designed to provide an advanced-level performance experience for all vocalists in a mixed choir setting. Students will focus on advanced vocal development as well as further refinement of musicianship and notational skills through the performance of appropriate choral repertoire. This is the most select of the school's three choruses. Music of a variety of styles will be covered. This ensemble performs several times a year. ***A student must complete a WCC application prior to enrollment in this class if wanting to receive WCC college credit. There is a WCC fee and an application deadline. Pre-requisite: Audition, grades 10 - 12.***

Comprehensive Musicianship

Course #MUS-658 1 Credit

The essentials of musical notation, theory, and history will be explored using mostly guitar as performance tools. **Pre-requisite: None**

Freshman Orchestra

Course #MUS674 1 Credit

This course is designed to provide a performance experience for all ninth-grade string players in a string ensemble setting. Students will receive basic skill development on their instrument as well as further development of musicianship and notational skills through the performance of appropriate orchestra repertoire. Music of a variety of styles will be covered. This ensemble performs several times a year. **Pre-requisite: Sufficient proficiency on an orchestra instrument.**

Freshman Orchestra Honors

Course #MUS674H 1 Credit

Students enrolled in the honors section will choose a solo with teacher approval and submit a biographical and historical report on the composer and composition with final performance in marking period 4. During the second and third marking periods students will prepare two different sections of the same solo. The final assignment will be to upload an audio/video recording of the performance with accompaniment for summative evaluation by the music faculty. **Pre-requisite: Teacher Recommendation**

Concert Orchestra

Course #MUS-672 1 Credit

This course is designed to provide a performance experience for all string players in an orchestral setting. Students will focus on skill development on their instrument, as well as further refinement of musicianship and notational skills through the performance of appropriate string orchestra repertoire. This ensemble performs several times a year.

Concert Orchestra Honors

Course #MUS-672H 1 Credit

Students enrolled in the honors section will choose a solo with teacher approval and submit a biographical and historical report on the composer and composition with final performance in marking period 4. During the second and third marking periods students will prepare two different sections of the same solo. The final assignment will be to upload an audio/video recording of the performance with accompaniment for summative evaluation by the music faculty. **Pre-requisite: Teacher Recommendation**

SUNY Symphony Orchestra

Course #MUS-684 1 Credit

WCC Course #MUSIC 141A 2 College Credits

This course is designed to provide an advanced-level performance experience for all string players in an orchestral setting. Students will focus on advanced-level skill development on their instrument, as well as further refinement of musicianship and notational skills through the performance of appropriate string and full orchestral repertoire. This class is open to string students by audition. This group performs throughout the year. ***A student must complete a WCC application prior to enrollment in this class if wanting to receive WCC college credit. There is a WCC fee and an application deadline.*** **Pre-requisite: Audition, grades 10 - 12.**

Music Lessons

Course #MUS-650 .25 Credit

Students are enrolled concurrently with a performing ensemble. Instruction is given in a smaller group setting. **Pre-requisite: None**

Music History

Course #MUS-680 1 Credit

This course is designed to provide students with a knowledge of different time periods within music. The course will begin with the Renaissance, and continue through to the music of today. By engaging students to learn about certain time periods and how they relate to present day music, it will heighten their musical skills utilizing what they have learned in the class for their own personal performances. Non-performing students will find the class interesting with regards to certain works that are connected to significant events throughout history. Some music theory will be involved with the learning of major works discussed in the class. ***Open to all grades.*** **Pre-requisite: None**

SUNY Music Theory

Course #MUS-685 1 Credit

WCC Course #Music 111 3 College Credits

Topics will include scales, chords, modes, ear training, sight singing and four-part harmony. The class aligns with the college curriculum for music theory at Westchester Community College. ***A student must complete a WCC application prior to enrollment in this class if wanting to receive WCC college credit. There is a WCC fee and an application deadline. Pre-requisite: Placement exam to be given in the spring preceding the course.***

NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA)

If a student intends to participate in Division I or Division II College Athletics, he/she must register as a student-athlete and be approved by the NCAA. Register with the NCAA Eligibility Center at www.ncaa.org. Eligibility requires approved core courses which can be found on the NCAA website with all the requirements to be a student athlete at the collegiate level. Check with your counselor that the courses you choose are approved and not courses denied by the NCAA.

PHYSICAL EDUCATION

Physical Education Through Team Sports 9-12

Course #PHE-780A .5 Credit each year

Physical education course geared for students in grades 9 through 12 who prefer to learn and participate in team sports and lifetime activities to encompass a wide range of curriculum units including individual, team, and competitive sports. The course will focus on strategies, organization, sportsmanship, participation, and tournament play. Activities include but are not limited to; soccer, flag football, ultimate frisbee, badminton, and pickle ball.

Physical Education – Lifelong Fitness 9-12

Course #PHE-780B .5 Credit each year

Physical education course geared for students in grades 9 through 12 who prefer to learn and participate in lifetime sports and activities focused on lifelong fitness and its direct correlation to mental and physical wellness. One of the goals is to empower all students with skills to sustain lifelong physical activity by promoting knowledge, confidence, and familiarity of varying lifetime sports/recreation activities. Examples include but are not limited to; yoga, archery, tennis, strength training, circuit training, golf, and FIT for Life curriculum.

Adaptive Physical Education

Course #PHE-788 .5 Credit

Adaptive physical education means a specially designed program of developmental activities, games, sports and rhythms suited to the interests, capabilities and limitations of students with disabilities who may not safely or successfully engage in unrestricted participation in the activities of the regular physical education program. **Pre-requisite: None**

Introduction to Dance

Course #PHE-782 .5 Credit

This is an elective to traditional physical education classes. This will be a year-long class and will include elements of fitness, jazz dance, social dance, ballet techniques, modern dance, hip hop and contemporary dance. Much focus is given to dance as a lifetime fitness activity. The Course is open to all students in **grades 9 - 12**. **Pre-requisite: None**

Advanced Dance

Course #PHE-783 .5 Credit

This class is intended for all dance students wishing to improve their technical dance skills. Emphasis is placed on more advanced concepts and techniques. Students do not need to already be at an advanced level of ability, however, they must be serious about improving their skills. This class will incorporate many of the same dance skills as the introductory dance class, adding in additional styles, all the while moving at a slightly faster pace. **Pre-requisite: Introduction to Dance or Teacher Recommendation.**

HEALTH EDUCATION

Health

Course #PHE-781 .5 Credit

The course will be organized to include level (11) conceptual areas; Human Growth and Development, Emotional Health, Nutrition, Environmental Health, Family Life Education (includes sex education), Diseases and Disorders, Consumer Health, Alcohol, Tobacco and Other Drug Substances, Safety, First Aid, CPR, Community Health, and Healthful Life Styles. **Pre-requisite: None**

SCIENCE

Earth Science

Course #SCI-202 1 Credit

The Regents Earth Science program provides inquiry and lecture experience in the following areas; glaciers, mountain building, weathering and erosion, geologic history and geology, the universe, the prediction of weather and its causes and effects on man and his environment. Laboratory investigations are required as a part of the course.

Pre-requisite: pass 8th grade Science

Biology A/B

Course #SCI-207 (A) 1 Credit Course #SCI-213 (B) 1 Credit

This course covers the NYS Living Environment (Biology) curriculum over two years. Topics included in this course are the study of life, maintenance of plants and animals, reproduction and development, modern genetics, evolution, and ecology. This class meets daily for a single period. **Pre-requisite: Recommendation of GFMS Guidance Counselor or High School Science Teacher.**

The Living Environment (Biology)

Course #SCI-206 1 Credit

Topics included in this course are: the study of life, maintenance of plants and animals, reproduction and development, modern genetics, evolution and ecology. A weekly laboratory program stressing individual work is a required part of this course and must be completed before the final examination. **Pre-requisite: Successful completion of Regents Earth Science.**

The Living Environment Honors (Biology H)

Course #SCI-201 1 Credit

This course is a comprehensive course for students who have previously demonstrated a high level of achievement in science. The final examination will be the New York State Regents (Biology) Living Environment Examination. **Pre-requisite: A 90% or greater average in Earth Science AND 90% or greater score on the Earth Science Regents Exam.**

Active Chemistry

Course #SCI-242 1 Credit

This course will provide a chemistry curriculum that is dynamic and informative. This course will be a hands-on lab-oriented approach to chemistry. Students will learn the basic concepts of Chemistry through application of multiple laboratory techniques. **Pre-requisite: Successful completion of the Living Environment Course and Regents.**

Chemistry

Course #SCI-212 1 Credit

All science majors or students who expect to take chemistry in college should take this course. Topics covered include matter and energy, atomic structure, periodic table, bonding and intermolecular forces, mathematics of chemistry, solutions, kinetics and equilibrium, acid-base theories, redox and electrochemistry. The final examination will be a cumulative lab practical. **Pre-requisite: Successful completion of Earth Science, Living Environment and Algebra courses with a minimum grade of a 75% in each course AND Regents (if applicable) OR successful completion of Active Chemistry with a grade of 85% or higher.**

Chemistry H

Course #SCI-211 1 Credit

This is a comprehensive and rigorous course for students who have previously demonstrated a high level of achievement in math and science. All science majors or students who expect to take upper-level chemistry courses in college should take this course. Topic covered include matter and energy, atomic structure, periodic table, bonding and intermolecular forces, mathematics of chemistry, solutions, kinetics and equilibrium, acid-base theories, redox and electrochemistry. The final exam will be a cumulative lab practical. **Pre-requisite: 85% final average or higher in Algebra I R AND 90% final average in Earth Science and 90% in Earth Science Regents.**

Physics

Course #SCI-214 1 Credit

This lab-based course is designed for the college bound student. Emphasis is placed on real world applications of physics and is oriented towards mathematical problem solving. Topics covered include classical mechanics, collisions, projectile motion, electricity and magnetism, energy, wave phenomena, nuclear physics and modern physics. This course utilizes skills in basic Algebra and Trigonometry. **Math Pre-requisite: Co-enrollment or successful completion of Algebra II Regents.**

AP Physics I

Course #SCI-215A 1 Credit

This course is the equivalent to a first-semester college course in algebra-based physics and is designed for the next generation of scientists and engineers. The course covers classical mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. This course concludes with both the AP Physics 1 exam and a local final exam. Successful completion of this course and exam may result in college credit. *All students are required to pay a fee to take the AP exam in the spring.* **Science Pre-requisite: Successful completion or co-enrollment in Honors Chemistry OR 85% final average in Chemistry. Math pre-requisite: Co-enrollment or successful completion of College Pre-Calculus**

AP Physics II

Course #SCI-215B 1 Credit

This course is the equivalent to a second-semester college course in algebra-based physics and is designed for the next generation of scientists and engineers. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. Successful completion of this course and exam may result in college credit. *All students are required to pay a fee to take the AP exam in the spring.* **Science Pre-requisite: Successful completion of AP Physics I OR 85% final average in Physics. Math Pre-requisite: Co-enrollment or successful completion of College Pre-Calculus**

AP Biology

Course #SCI-205 1 Credit

This course is designed to be the equivalent of a full year (2 semesters) of college level introductory biology. Students will study aspects of biochemistry, cell structure/division, energy mechanisms, classical/molecular genetics, evolution, botany, ecology, taxonomy and human physiology. Lab techniques used in the course are consistent with modern scientific research and include: gel electrophoresis, spectrophotometry, microscopy and micropipette manipulations. *All students are required to pay a fee to take the AP exam in the spring.* **Pre-requisite: Successful completion or co-enrollment in Chemistry. Successful completion of Living Environment.**

AP Chemistry

Course #SCI-210 1 Credit

The AP Chemistry course is designed for the student interested in studying introductory college chemistry. The descriptive chemistry portion of the course investigates chemicals as to their availability, uses, precautions in handling and reactions with other chemicals. The chemical calculation portion of the course teaches the student how to translate information presented. Areas of investigation include solutions and concentrations, acids and bases, oxy-redox reactions, equilibrium, kinetics, thermodynamics and stoichiometry. The students will also be exposed to laboratory procedures, both theoretical and practical. A review for the AP Chemistry examination will be provided. *All students are required to pay a fee to take the AP exam in the spring.* **Science Pre-requisite: 85% or higher in Chemistry OR Chemistry Honors AND 85% or higher in Algebra and Algebra Regents exam.**

Environmental Biology

Course #SCI-209 .5 Credit

This half year course will explain the differences between renewable and non-renewable energy sources. It will look at examples of these energy sources, advantages and disadvantages of its use and its effect on the environment. Each student will be required to complete several projects related to this field of study.

Zoology/Ethology

Course #SCI-208 .5 Credit

This half-year elective course is designed to give the student knowledge of animal behavior in a selected range of topics. Topics include communication, cognition, learning, intelligence, defense strategies, predator/prey relationships, mating, sexual selection, social behavior, foraging, migration, the brain and human behavior. Animal anatomy is also explored through in-class and on-line dissections. Class units will be supplemented with other topics of interest, including current events. Emphasis will be placed on active Internet research. Topics of research include training animals, the usage of sign language by gorillas and chimpanzees, insect and vertebrate pests and the mechanism of various psychoactive drugs on the human brain.

Astronomy/Oceanography

Course #SCI-217 1 Credit

This course is designed to expose students to major understandings in the areas of Astronomy for quarters 1 & 2, and Oceanography for quarters 3 & 4. Discussions range from the smallest grain of sand in our oceans to the vast expanse of space. Relevant scientific discoveries and theories are at the core of the course, as well as staying up to date with current events in both fields. In this course, students will be made aware of the undeniable effect both astronomy and oceanography have on their daily lives through a variety of activities, projects, and self-guided research.

Forensics

Course #SCI-222 1 Credit

This course focuses on different methodologies used by crime scene and forensic investigators. Topics such as evidence collection, fingerprint and handwriting analysis, DNA, arson, ballistics, and serial killers will be studied. Throughout the course, students will be asked to work both independently and as a member of a group. Mandatory final projects will demonstrate understanding of material learned during the course. *Open to Juniors and Seniors only.*

SUPA Chemistry (106/107) & (116/117)

Course #SCI-225 1 Credit

8 College Credits from Syracuse University

Chemistry 106/107 is a general chemistry course intended for students with an interest or background in science. Chemistry 106/107, General Chemistry I / General Chemistry Lab I, presents lectures, demonstrations and recitations focused upon understanding the nature of elements and compounds, chemical reactions, stoichiometry, thermochemistry, the electronic structure of atoms, periodic properties, the nature of bonds, molecular geometry, bonding theories, and the properties of gases. A general, basic understanding of math and algebra, including an understanding of decimals, exponents, logarithms, quadratics, and algebraic equations, is essential to success in this course (calculus is not required). You should not be taking remedial algebra concurrently with this course.

Chemistry 116/117 (General Chemistry II / General Chemistry Lab II) builds upon the fundamental chemical principles learned in the first semester course (CHE 106/107) and introduces chemical kinetics and thermodynamics, intermolecular forces, detailed chemical equilibria, modern materials, and introductory organic chemistry. A general, basic understanding of math and algebra, including an understanding of decimals, exponents, logarithms, quadratics, and algebraic equations, is essential to success in this course (calculus is not required). You should not be taking remedial algebra concurrently with this course. The 2024-2025 SUPA Chemistry tuition is \$115 per credit x 8 credits = \$920. *Open to Juniors and Seniors only with preference to Seniors.* **Prerequisites: Successful completion of Chemistry AND Chemistry Lab/Practical Exam, Algebra AND Algebra Regents.**

SUPA Forensics

Course #SCI-800 1 Credit

4 College Credits from Syracuse University

Introduction to Forensic Science (Chemistry 113), is focused upon the application of scientific methods and techniques to crime and law. Recent advances in scientific methods and principles have had an enormous impact upon science, law enforcement and the entire criminal justice system. In this course, scientific methods specifically relevant to crime detection and analysis will be presented. Emphasis is placed upon understanding the science

underlying the techniques used in evaluating physical evidence. Topics included are blood analysis, organic and inorganic evidence analysis, fingerprints, hair analysis, DNA, drug chemistry, forensic medicine, forensic anthropology, toxicology, fiber comparisons, soil comparisons, and fire and engineering investigations, among others. This is a college level course. Adherence to the SUPA (Syracuse University Project Advance) academic policy will be strictly enforced and required to remain in the class. The 2024-2025 tuition of SUPA Forensics is \$115 per credit x 4 = \$460. *Open to Juniors and Seniors only with preference to Seniors.* **Prerequisites: Successful completion of Chemistry AND Chemistry Lab Practical/Exam, Algebra AND Algebra Regents.**

Introductory Science Research

Course #SCI-230 1 Credit

The Introductory Science Research course is year one of Carmel Science Research. Carmel Science Research is a three-year program that affords students the opportunity to participate in the community of scientific research as part of their high school experience. It balances instruction in the high school with a mentorship experience. By participating, a student will choose and explore a topic of interest from the physical, natural, or social sciences using professional literature, develop skills in using the internet, and learn to conduct searches of a wide range of databases. The student will study professional research publications related to their topic of interest and formally present these articles to various audiences. In addition, the student will prepare a plan of novel intended research, communicate with scientists to serve as a mentor, design and conduct a research investigation under the supervision of the science research coordinator and scientist mentor. Following completion of the authentic research, the student will write a formal research paper and present their findings at local, state, and national competitions. =====>

This program can earn students 12 college credits if they are registered at SUNY Albany after the sophomore year. College credit and weighting may be earned in Intermediate Science Research and Advanced Science Research. Honors weighting will be assigned to students completing Introductory Science Research. Can be open to freshmen, but freshmen cannot earn college credit. **Pre-requisite: Successful application process, teacher recommendation and a minimum of 85% class averages in all Regents math and science courses. College credit is awarded only to those students who have an official mentor (expert in their field) supervising their research. Application for college credit through the University of Albany is on-line and is the responsibility of the student. Co-Requisite: Maintain an 85% average in all Regents/Honors level Math and Science courses.**

Intermediate Science Research

Course #SCI-233 1 Credit

SUNY Course #ACAS 109 Intermediate Science Research (2 college credits, July – August)

SUNY Course #ACAS 110 Intermediate Methods of Research (4 college credits, Sept – June)

The Intermediate Science Research course is year two of Carmel Science Research. **Pre-requisite: Introductory Science Research. Co-Requisite: Maintain an 85% average in all Regents/Honors level Math and Science courses. College credit is awarded only to those students who have an official mentor (expert in their field) supervising their research. Application for college credit through the University of Albany is on-line and is the responsibility of the student.**

Advanced Science Research

Course #SCI-235 1 Credit SUNY Course #ACAS 209 Advanced Science Research (2 college credits, July – August)

SUNY Course #ACAS 210 Advanced Methods of Research (4 college credits, Sept – June)

The Advanced Science Research course is year three of Carmel Science Research. **Pre-requisite: Intermediate Science Research. Co-Requisite: Maintain an 85% average in all Regents/Honors level Math and Science courses. College credit is awarded only to those students who have an official mentor (expert in their field) supervising their research. Application for college credit through the University of Albany is on-line and is the responsibility of the student.**

SOCIAL STUDIES

Social Studies requirements mandated by the state for graduation are as follows:

- 9th Grade: Global History & Geography I
- 10th Grade: Global History & Geography II
- 11th Grade: United States History & Government
- 12th Grade: Economics and Law/Government*

*Students who take AP U.S. Government and Politics/Economics, Government or AP Human Geography are exempt from taking Economics and Law/Government classes. Those students are required to pay a fee to take the AP exam in the spring.

Global History & Geography I

Course #SOC-112 1 Credit

Emphasis is placed on Global History which will include geography. Time period will begin from early human history and will continue with human history up to 1750. **Pre-requisite: None**

Global History & Geography I H

Course #SOC-111 1 Credit

Curriculum emphasis is identical to the Regents class. However, expectations, work-load and depth of analysis occur to a greater degree. Pace of instruction and writing requirements are more rigorous. Student must exhibit strong reading and writing skills. There is a heavier emphasis on writing than in the Regents course. Topics will include: The First Civilizations, Classic Societies, the Age of Expanding Connections, and Global Interactions. **Pre-requisite: A minimum 95 average plus a teacher recommendation to sit for entrance exam. Entrance exam (Writing/Reading comprehension) will determine final placement.**

Global History & Geography II

Course #SOC-122 1 Credit

This is a continuation of Global History and Geography I. Time period will begin with human history at 1750 and continue to present day. **Pre-requisite: None**

Global History & Geography II H

Course #SOC-121 1 Credit

Curriculum emphasis is identical to the Regents class. However, expectations, work load and depth of analysis occur to a greater degree. Pace of instruction and writing requirements are more rigorous. Student must exhibit strong reading and writing skills. There is a heavier emphasis on writing than in the Regents course. **Pre-requisite: Teacher Recommendation required, and a 90% average over four quarters and a 90 or higher on the final exam in Global I. An 88% or higher total average (4 quarters and final exam) in Global History & Geography I Honors.**

Global History & Geography I & II Workshop

Course #SOC-113 (I) .5 Credit

Course #SOC-124 (II).5 Credit

(Description as above) This class will provide help for those students that may need additional preparation in passing the Regents. A lab class will meet either on odd or even cycle days. **Pre-requisite: Teacher Recommendation**

AP World History

Course #SOC-126 1 Credit

This course is NCAA

Approved

This program is open to the qualified student interested in earning college credit while in high school. The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This course covers world history from 1200 CE to the present and culminates with the Advanced Placement Exam in World History. The course builds on an understanding of cultural, institutional and technological precedents that, along with geography, set the human state. Independent research and out-of-class study are an integral requirement of this program. ***Open to Sophomore students first. All students are required to pay a fee to take the AP exam in the spring.*** **Pre-requisite: 95% total average (4 quarters and final exam) in Global History & Geography I OR 90% or higher total average (4 quarters and final exam) in Global History & Geography I Honors, AND a sample chapter outline completed in the second half of the year.**

US History/Government

Course #SOC-133 1 Credit

The social, political and economic developments of our past are interwoven through a topical approach to American History. Areas of concentration include: America's people-immigration, slavery and women's rights; Economics – Labor, agriculture and business development; Government – federal, state, division of and separation of powers; Foreign policy. **Pre-requisite: None**

History/Government Workshop

Course #SOC-134 .5 Credit

This class will provide help for those students that may need additional preparation in passing the Regents. A lab class will meet either on odd or even cycle days. **Pre-requisite: Teacher Recommendation**

SUNY U.S. History

Course #SOC-135 1 Credit

6 College Credits from SUNY Dutchess Community College

DCC Course # HIS103: History of the United States I

DCC Course # HIS104: History of the United States II

The study of American history from the Colonial Era through the Civil War. In addition to political development, social, economic and cultural issues will be explored. Particular attention will be given to the colonies of Virginia and Massachusetts, the American Revolution, the Constitution, the Age of Jackson, slavery and the Civil War. The course will also emphasize how indigenous peoples, African Americans, women, and ordinary working Americans contributed to the making of the early American republic. The class will also study the American political, social and intellectual development from 1865 to the present. Topics covered are Reconstruction, the industrial and transportation revolution, the labor movement, the crisis in agriculture, expansion and the new Manifest Destiny, the Progressive Movement, the Twenties, the Great War, the Great Depression and New Deal, the Second World War, the Cold War, the Civil Rights Movement, the Vietnam War and the Protest Movements of the 1960s and the Consolidation and Conservative Resurgence of the 1970s and 1980s. ***Dutchess Community College credits may be earned in this course. Cost for this course yet to be determined. Pre-requisites: Teacher Recommendation required AND 85% final average in Global II or above an 80% in Global IIIH or AP World.***

AP United States History

Course #SOC-131 1 Credit

This program is open to the qualified student interested in earning college credit while in high school. The course is a chronological approach and examines the social, economic, political and religious development of our country from the colonial period to modern times. Independent research and out-of-class study are an integral requirement of this program. The Advanced Placement exam in American History is offered in the spring of each year. Please note: This is an AP course therefore it is more accelerated than an honors class. AP American History students are required to complete a summer assignment prior to the start of the course. ***All students are required to pay a fee to take the AP exam in the spring. Pre-requisite: Teacher Recommendation required AND 88% final average over the first four quarters in Global II H, OR a 95% average over the first four quarters OR 85% average over four quarters in AP World.***

Social Studies 12: Economics & Law

Course #SOC-148 1 Credit

Social Studies 12 involves the areas of Law and Economics. This course acquaints students with the law in various levels of government and its effect on citizens. Constitutional reinforcement of the Bill of Rights is touched upon, but concentration is placed upon everyday application of law. The teacher stresses local law enforcement agencies; local police, county sheriff's department, town and county judges and citizens' interaction with those agencies. Business Law can also be used as a Law requirement for graduation. The Economics portion of the course follows the NYSED guidelines and examines three areas: entrepreneurship, personal finance and theoretical economics. Such basic economic concepts as such scarcity, supply and demand, markets, productivity, opportunity, cost, specialization, productive resources and interdependence will be studied. ***Pre-requisite: None***

AP US Government & Politics

Course #SOC-141 1 Credit

US Government & Politics- Economics provides an analytical perspective on government and politics in the US. This course involves both the study of general concepts used to interpret US politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs and ideas that constitute US political reality. ***All students are required to pay a fee to take the AP exam in the spring. Pre-requisite: Teacher Recommendation required AND a 90% final average in US History OR 85% final average in AP American History.***

AP Psychology

Course #SOC-166 1 Credit

This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. ***All students are required to pay a fee to take the AP exam in the spring. This course is only open to Senior students. Pre-requisite: Teacher Recommendation required AND an 88% final average in the previous year's Social Studies classes.***

AP Human Geography

Course #SOC-164 1 Credit

AP Human Geography will teach students about the patterns and processes that explain how and why we live where we do. We delve into how humans have changed the earth, been changed by the earth, and how they have interacted with each other on the earth. It is a course that focuses on the present, using the past simply to understand the present. Topics include globalization and regionalization, population and migration, culture and ethnicity, land use, both urban and rural, industrialization and economic development. The Advanced Placement examination is required in May. ***All students are required to pay a fee to take the AP exam in the spring. This course is only open to Junior and Senior students (with preference given to seniors). Pre-requisite: Teacher Recommendation required AND an 85% final average in the previous year's Social Studies classes.***

AP African American Studies

Course #SOC-127 1 Credit

This course is an Advanced Placement class designed for students who have an interest in learning about the history and experiences of African Americans. This class will allow students to learn about topics that interest them but are not necessarily covered in depth in U.S. History survey courses. AP African American Studies is designed to be the equivalent of an introductory college course related to Africana Studies, African Diaspora Studies, or Black Studies. ***All students are required to pay a fee to take the AP exam in the spring. Open to Juniors and Seniors. Pre-requisites: Teacher Recommendation required AND an 85% final average in the previous year's Social Studies classes.***

Child Psychology

Course #SOC-153 .5 Credit

This course is NCAA Approved

This course takes a pragmatic approach to developmental problems in infancy, pre-school, childhood, adolescence, adulthood, middle age and old age. Emphasis is placed upon the psychological problems inherent to each stage. Much of the course is based on situational problem solving. Evaluation is done through take-home examinations and term paper assignments. ***This course is only open to Sophomores, Junior and Senior students. Pre-requisite: None***

U.S. Civil War

Course #SOC-157 .5 Credit

This course is NCAA Approved

This course acquaints the student with the causes, duration and consequences of the U.S. Civil War. Special emphasis is placed on discussing slavery, sectional differences of the 1850's and the politics of the period. The military history of the Civil War is a main ingredient of the course and special emphasis will be placed on the everyday life of "Billy Yank" and "Johnny Reb". Reconstruction and the long-range result (up to the present) of the Civil War will be covered. ***This course is offered first to Freshmen and Sophomore students. Pre-requisite: None***

Sports History ±

Course# SOC-162 .5 Credit

± Not approved by NCAA

The course will use sports as the foundation for not only American history, but world history. Topic the course may cover: The Olympics - the birth of sports, social issues in sports, history of specific sports, the economics of sports past and present. ***This course is only open to Junior and Senior students. Pre-requisite: None***

Modern American History, World War II to Present

Course #SOC-158 .5 Credit This course is NCAA Approved

This course is a political, economic, social and military history of the United States from Pearl Harbor to the present. The intent is to examine the events and issues that challenged Americans to exert leadership within the world community of nations in dangerous times. Special emphasis will be placed on those events from our “recent past” (Vietnam, “the 60’s”, Civil Rights and Feminism, the “end” of the Cold War, new shifting political forces) that do much to explain our current domestic and world views. ***This course is only open to Juniors and Seniors. Pre-requisite: None***

Nazi Germany

Course #SOC-159 .5 Credit This course is NCAA Approved

This course examines the political, social, economic, intellectual and religious sources of the Holocaust, traces its course, and analyzes the way in which it has been interpreted by different nations and historians. Special attention is given to the history of European antisemitism, the relationship among Nazi ideology, Hitler, and the Holocaust, the stages of the “Final Solution”, Jewish resistance, behavior of other nations, and the meaning of the Holocaust for the present and the future. Students are responsible for reading articles to participate in class discussions. ***This course is open to Sophomores with a teacher recommendation and to Junior and Senior students. Pre-requisite: None***

Revolutionary War

Course #SOC-160 .5 Credit This course is NCAA Approved

This course will acquaint students with the causes, colonial development and military perspective of the Revolutionary War. Major elements of the course consist of the impending crisis that led to Lexington and Concord, the military history and economic life of the American Colonies. A loyalist versus patriot perspective will also be presented. Special emphasis will be placed on the military life of the common 18th century soldier. ***This course is offered first to Freshmen and Sophomore students. Pre-requisite: None***

The Coming and Impact of 9/11

Course #SOC-175 .5 Credit

“The Coming and Impact of 9/11” will teach students about the motivations and actions taken by terrorists and the rise of al Qaeda. This course will trace the events leading up to the September 11th attacks beginning in the late 1970’s. The course will offer an in-depth study of 9/11 attacks, as well as their long-lasting impact on victims, first responders and the United States. ***Pre-requisite: None***

SUNY Classism, Racism, and Sexism

Course #SOC-900 1 Credit 3 College Credits from SUNY Albany

This course is NCAA Approved

SUNY Albany – satisfies course #'s: WSS240; AFS240 and/or LCS240

This course is team taught class and is available to Seniors with good academic standing. This course will seek to uncover and understand the societal forces and ramifications of issues of race, class, and gender and how these forces interact and shape our understanding of said concepts. We will explore issues of power as it pertains to race, class and gender and we will delve into the historical underpinnings of these concepts as well as their more “popular” manifestations. ***SUNY Albany credits may be earned in this course. Cost for this course yet to be determined. Pre-requisite: Teacher Recommendation. Only open to Seniors.***

SUNY Sociology (DCC-BHS 103: Social Problems in Today's World)

Course #SOC-902 1 Credit 3 College Credits from SUNY Dutchess Community College

DCC Course # BHS103: Social Problem's in Today's World

This course is an examination of current social problems that confront the individual, the United States and the international community. Concepts of the behavioral sciences are introduced. The course presents a broad range of social problems, with particular focus on the complex relationships between contemporary issues. Students are presented the current research data that explains both the causes and possible resolutions to important social issues. In general, at the end of the semester students will have a basic understanding of how sociologists view social problems and how they study them. ***Dutchess Community College credits may be earned in this course. Cost for this course yet to be determined. This course is only open to Junior and Senior students. Cost for this course yet to be determined.***

SUNY History of Women in the U.S.

Course #SOC-903 1 Credit 3 College Credits from SUNY Dutchess Community College

DCC Course # HIS214: History of Women in U.S.

An examination of the social, economic, and political roles of women in the United States from colonial times to the present. Particular emphasis will be given to the impact that race, class and ethnicity have had on the experiences of women in this country. The course approaches the study of gender by highlighting a critical intersectional feminist lens that pays particular attention the categories of race, class, gender, and sexuality.

Dutchess Community College credits may be earned in this course. Cost for this course yet to be determined. This course is only open to Junior and Senior students. Cost for this course yet to be determined. Pre-requisites: Teacher Recommendation required OR an 85% final average in the previous year's Social Studies classes.

SUNY Latin American Studies

Course #SOC-904 1 Credit 3 College Credits from SUNY Dutchess Community College

DCC Course # HIS206: Latin American History

A study of the major social, economic, political, intellectual, and cultural developments in Latin American history. Students will explore topics relating to the Maya, Aztec, and Inca cultures, the European colonial experience, the functioning of labor systems in Latin America and the Caribbean, struggles for independence, relations with the United States, the influences of religious cultures and institutions, and contemporary movements for political change and social justice. ***Dutchess Community College credits may be earned in this course. Cost for this course yet to be determined. This course is only open to Junior and Senior students. Cost for this course yet to be determined. Pre-requisites: Teacher Recommendation required OR an 85% final average in the previous year's Social Studies classes.***

SUPA Economics with Law Block

Course #SOC-800 1 Credit 3 College Credits from Syracuse University

This course is an introduction to modern Western economic thought, exploring labor, markets, micro and macroeconomics. ***All students are required to pay a fee of \$115 per credit hour to get college credit from Syracuse University.*** Upon completion of the Economics portion of the class in January, students will transition to the standard law curriculum necessary for graduation. ***Pre-requisite: Successful completion of Global History I & II AND U.S. History***

SPECIAL EDUCATION DEPARTMENT
THE GOALS AND OBJECTIVES OF THE SPECIAL EDUCATION DEPARTMENT PARALLEL WITH
THE NEW YORK STATE EDUCATION DEPARTMENT STANDARDS

Skills Support – Humanities (English/Social Studies)

Course #SPE-200 .5 or 1 Credit

Skills Support – Math/Science

Course #SPE-250 .5 or 1 Credit

A program designed for 9th grade classified students at Carmel High School. The students will review materials from their content classes and work on skills such as reading comprehension, reading fluency, writing, and foundation math skills. The class will also help students to improve organization and test taking skills.

Open to Grade 9

Skills Support- Special Class Students

Course #SPE-250 .5 or 1 Credit

A program designed for 9th grade classified students at Carmel High School. The students will review materials from their content classes and work on skills such as reading comprehension, reading fluency, writing, and foundation math skills. The class will also help Special Class students with Career Exploration, Work Readiness, and Life Skills.

Open to Grade 9

Bridge Extension Skills

Course #SPE-920 0 Credit

A program designed for Special Class 11th and 12th grade students at Carmel High School. The students will review materials from their content class as well as work on skills such as socially appropriate behavior, Introductory Job Skills, academic support in Regents Classes, and counseling and SEL. **Open to Special Class students in grades 11 and 12.**

Resource

Course #SPE-900 0 Credit

Instruction in organization, study skills and time management, as well as individualized academic assistance, is provided to assist students as they work to master IEP goals and the demands of the Regents curriculum.

Open to Grades 10 – 12

Bridge Program

Course #SPE-BRI Credit Bearing

A program designed to help 9th and 10th grade Special Education students acclimate to the high school environment and its academic expectations while becoming productive students at Carmel High School. This is a two-year transition program designed for students with academic and emotional needs. The goal is to successfully transition these students into a less restrictive academic environment within Carmel High School while exposing them to Regents level curriculum.

CORE CLASSES FOR BRIDGE PROGRAM

Grade 9

Algebra Extended 9

Course #SPE-809 1 Credit

Global History & Geography I

Course #SPE-919 1 Credit

English 9

Course #SPE-990 1 Credit

Biology A

Course #SPE-895 1 Credit

Career and Finance

Course SPE-596-1 1 Credit

Grade 10

Algebra Extended 10

Course #SPE-819 1 Credit

Global History & Geography II

Course #SPE-939 1 Credit

English 10

Course #SPE-991 1 Credit

Biology B

Course #SPE-896 1 Credit

PACE A, B, C

Course #SPE-975 *Non-Credit Bearing*

The PACE program consists of Special Education classes that are designed for students in grades 9-12+ who are grouped according to ability levels rather than age or grade level. The program consists of an academic component which takes place at C.H.S., a vocational component in the community through Job Coaching and vocational education at BOCES (depending on grade level and IEP requirements). The students in the PACE Program follow a course of study which makes them eligible for the SACC Credential. Students are instructed in Life Skills in the areas of English, Math and Social Studies and learn fundamental skills that prepare them for the workforce after high school.

CO-TEACHING CLASSES ARE AVAILABLE IN EACH DEPARTMENT
DEPENDING ON GRADE LEVEL AND IEP REQUIREMENTS.

ENGLISH – SPECIAL EDUCATION

English 9: SC and ICT

Course #SPE-990 1 Credit

Our focus is on preparation for the **Common Core ELA Exam** in the eleventh grade. This is a literature-based language arts program.

English 10: SC and ICT

Course #SPE-991 1 Credit

Our focus is on preparation for the **Common Core ELA Exam** in the eleventh grade. This is a literature-based language arts program.

English 11: SC and ICT

Course #SPE-992 1 Credit

Our focus is on preparation for the **Common Core ELA Exam**. Students will read and interpret fiction and nonfiction texts, including novels, short stories, poems, articles, and electronic texts. Students will follow the English 11 curriculum with a modified approach to instruction and assessment.

English 12: SC and ICT

Course #SPE-993 1 Credit

This course encompasses the areas of literature, composition, grammar, speaking, reading and listening. It also affords time to explore education and career possibilities.

Reading

Course #SPE-994 1 Credit

The Wilson Reading Program strengthens reading decoding through a multi-sensory approach. Small groups are based on individual needs. This program, designed for adolescents and adults, will improve reading, spelling, writing and fluency.

MATHEMATICS – SPECIAL EDUCATION

Algebra Extended 9: SC and ICT

Course #SPE-809 1 Credit

Designed to follow the Algebra Common Core model and provide students with extra practice on mathematical concepts throughout the Algebra curriculum. During the course of the next two years, students will learn to: extend their understanding of linear and exponential relationships; analyze and explain the process of solving an equation; master the solution of linear equations, inequalities, and exponential equations; use function notation; solve systems of equations; and interpret arithmetic and geometric sequences. This course will complete the first half of the Algebra curriculum and prepare students for the Algebra Regents Exam. The completion of Integrated Algebra is when the students pass the Algebra Regents exam at the end of the following year. N.Y. State requires that every student pass this test in order to graduate from high school. **Pre-Requisite: None**

Algebra Extended 10: SC and ICT

Course #SPE-819 1 Credit

Designed to follow Algebra Extended 9, this course will complete the content of the Algebra curriculum that was not covered in Algebra Extended 9. Course culminates in a June Algebra Regent. **Pre-Requisite: Successful completion of Algebra Extended 9.**

Math and Financial Applications: Special Class Only

Course #SPE-830 1 Credit

This consumer math class is designed to reinforce and extend students' mastery of basic mathematical concepts by using a variety of realistic, consumer-oriented applications. The students will be presented with many real-life situations that demand a specific skill application. The goal is to provide students with the tools necessary to function as independent and wise consumers. **Pre-requisite: Completion of Algebra**

Quantitative Geometry: ICT Only

Course #MAT-327 1 Credit

This course is designed to expose students to the study of geometry while accommodating those students whose basic mathematical skills need reinforcement. Algebraic skills are strengthened when algebraic methods are applied to problem solving of real-world geometric situations.

Pre-requisite: Successful completion of Algebra I OR Algebra I Extended 10 including a passing grade on the Algebra Regents exam AND Teacher Recommendation.

Algebra II: ICT Only

Course #MAT-333C

The purpose of this course is to provide students with a basic knowledge for career and/or college readiness. Students will be given the opportunity to strengthen existing algebra skills while learning new concepts and skills. Students will study equations and inequalities, systems of equations and inequalities, complex numbers, functions and their inverses including exponential and logarithmic, polynomial, rational, trigonometric and exponential and logarithmic. **Pre-requisite: Successful completion of Quantitative Geometry OR Geometry R.**

SOCIAL STUDIES – SPECIAL EDUCATION

Global History & Geography I: SC and ICT

Course #SPE-919 1 Credit

This is the first year of a two-year course on World History which culminates in a Global History Regents in June of the second year. The course covers Europe, the Middle East, Africa, China, Japan and Latin America. Global I focuses on events from Pre-history to 1700 A.D. **Pre-requisite: None**

Global History & Geography II: SC and ICT

Course #SPE-939 1 Credit

This is the second year of a two-year course on World History which culminates in a Global History Regents in June. The course covers Europe, the Middle East, Africa, China, Japan and Latin America. Global II focuses on events from 1700 A.D. to the present day. **Pre-Requisite: Successful Completion of Global I**

U.S. History/Government: SC and ICT

Course #SPE-969 1 Credit

The social, political and economic developments of our past are interwoven through a topical approach to American History. Areas of concentration include: America's people-immigration, slavery and women's rights; Economics - labor, agriculture and business development; Government - Federal, State, division of and separation of powers; Foreign Policy. **Pre-Requisite: None**

Economics/Government: SC and ICT

Course #SPE-998 1 Credit

This course emphasizes economic systems of the world and how they work, as well as civics in the United States. The economics portion has such basic concepts as free enterprise, scarcity, supply and demand, productive resources and interdependence. The government portion emphasizes citizenship. **Pre-Requisite: None**

SCIENCE – SPECIAL EDUCATION

Biology A: SC and ICT

Course #SPE-895 1 Credit

Using single periods over a two-year time span, this course covers the Biology Curriculum. Smaller class size and more "one on one" interaction is a primary tool used to help students succeed at the Regents level. **Pre-Requisite: None**

Biology B: SC and ICT

Course #SPE-896 1 Credit

Using single periods over a two-year time span, this course covers the Biology Curriculum. Smaller class size and more "one on one" interaction is a primary tool used to help students succeed at the Regents level. **Pre-Requisite: Successful completion of Biology A**

Forensics: Special Class & ICT

Course #SPE-897 1 Credit

Third year Special Class option. This course focuses on different methodologies used by crime scene and forensic investigators. To be successful, students must have completed the Pre-requisites listed below. Throughout the course, students will be asked to work both independently and as a member of a group. Concepts such as gel electrophoresis, qualitative analysis using paper chromatography and spectrophotometry, anatomy, serology, toxicity, anthropology and document analysis will be studied. Using a variety of computer programs, students will be required to submit a final project. **Pre-Requisite: Completion of Biology or Earth Science**

ART – SPECIAL EDUCATION

Adaptive Mixed Media

1/2-year credit

This is a course introducing foundation art skills. Projects will include a variety of mixed art materials, including but not limited to: printmaking, pastels, collage, drawing and painting. Students will be introduced to different artists and cultures through unique projects. This class is designed to improve fine-motor skills and help students with task competition.

Prerequisite: Needs approval from Special Education Department Chair

PACE Music

PACE Music is a class taught by the music department specifically for students in the PACE program. Students in this class will learn basic music skills. The students will gain an understanding and appreciation for music by participating in a class that covers concepts, beats, and instruments. They will improve their fine and gross motor skills using a variety of instruments. Students will also decipher different timbers within sound and pitch. They will learn about different instruments and the cultures and music associated with these cultures.

PACE Science

PACE Science is a class taught by the Science Department in collaboration with the Special Education Department specifically for students in the PACE program. This class will cover a variety of science topics such as body systems, health and safety, weather, motion, and chemistry concepts. The topics will be varied and the activities are hands-on learning experiences that promote student participation.

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GED Support PROGRAM

A program designed to help students prepare and successfully pass the GED Exam. Students will be provided whole group instruction, individualized instruction, and take assessments to prepare for the exam. Students can also attend a BOCES Vo-tech Program or Work Program at Carmel High School.

TECH CENTER AT BOCES YORKTOWN CAMPUS

Courses in the Arts/Humanities, Business Information Systems, Engineering Technologies and Health are taught at the BOCES Technical Center Campus in Yorktown. The Tech. Center also offers Advanced Courses through the New Visions Program in the following areas: Engineering, Environmental Science & Sustainability, Education and Health. Course descriptions are available on line at the BOCES website:

www.pnwboces.org/techcenter/tech/index.htm. A separate application, available in the CHS Counseling Office, must be submitted to the BOCES Tech. Center for approval.

TECHNOLOGY EDUCATION/ENGINEERING

These courses may be used as the third unit of credit (.5 or 1) in Science or Math, but not both.

Project Lead the Way Courses Recommended Pathway

- 9th Grade - INA-745 PLTW Introduction to Engineering (College Course)
- 10th Grade - INA-717 PLTW Civil Engineering (College Course)
- 11th Grade - INA-733 PLTW Principles of Engineering (College Course)
- 12th Grade - INA-715 PLTW Engineering Design and Development (College Course)

Introduction to Engineering (IED) (Project Lead The Way Program) ±

Course #INA-745 1 Credit 3 College Credits from Rochester Institute of Technology* ± Not approved by NCAA

This course from the **Project Lead the Way Program** is designed for 9th and 10th grade students. The major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards in a STEM based, college engineering course. Students will use 3-D computer aided drawing software to help them design solutions to solve proposed problems. Students will build projects using hand tools, a laser cutter machine and a CNC controlled machine to develop prototypes and communicate solutions to peers and members of the professional community. For more information on this program, go to www.pltw.org. *Students must have an 85% average overall and pass an end of year assessment to receive college credit from Rochester Institute of Technology.

Pre-Requisite: None

Civil Engineering (Project Lead The Way Program) ±

Course #INA-717 1 Credit 3 College Credits from Rochester Institute of Technology ± Not approved by NCAA

Civil Engineering is the study of the design and construction of residential and commercial building projects. This college course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry. You will use Revit CAD software to create plan views and blueprints of building designs. For more information on this new program, go to www.pltw.org. *Students must have an 85% average overall and pass an end of year assessment to receive college credit from Rochester Institute of Technology. ***This course is only open to Sophomores, Juniors and Seniors.*** **Pre-Requisite: None**

Principles of Engineering (POE) (Project Lead The Way Program) ±

Course #INA-733 1 Credit 3 College Credits from Rochester Institute of Technology* ± Not approved by NCAA

This course from the **Project Lead the Way Program** is designed for 10th-12th grade students, where they will learn the basic principles of engineering through hands-on projects, robotics and apply engineering standards in a STEM based, college engineering course. Students have found the course easier with a Physics course to help them through the content. This STEM based course will cover mechanisms, energy sources, materials and structures, statics and strengths of materials, fluid power and other engineering principles. Students will use 3-D printers for rapid prototyping, computer aided drawing software to help them design solutions to problems, build projects using machines and tools to communicate solutions to peers and members of the professional community. ==>

For more information on this new program, go to www.pltw.org. **Students must have an 85% average overall and pass an end of year assessment to receive college credit from Rochester Institute of Technology. **This course is only open to Sophomores, Juniors and Seniors.** Pre-Requisite: Introduction to Engineering (PLTW IED #INA-745). Course should be taken concurrent with a Physics Course.*

Engineering Design and Development (EDD) (Project Lead The Way Program)±

Course #INA-752 1 Credit

University of New Haven – UNIV 1141(Life on Earth)

±Not approved by NCAA

Engineering Design and Development (EDD) is the capstone course in the PLTW high school engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. For more information on this new program, go to www.pltw.org. **Pre-Requisite: Introduction to Engineering (PLTW IED #INA-745) & Principles of Engineering (PLTW POE #INA-733).** There is a \$200 fee to receive college credit through the University of New Haven.

Robotics

Course #INA-751 1 Credit

This course is designed to enable students to apply concepts of mathematics, the sciences, and engineering through hands-on learning in the topic of robotics. Robotics is an emerging field of technology where engineering, science, math, design, and biology all come together to solve world problems. Students explore the concepts of robotics by examining the history, definition of robotics, and the application of the associated skills through project-based hands-on learning. Project work topics include safe use of basic hand tools, basic electrical circuits and control circuits, Rapid prototyping technologies such as 3D printing, Arduino microcontroller-based robots, and cumulating in a FIRST Robotics challenge project. Learning activities in this course will allow students to experience the engineering design process while developing team building and the soft skills necessary for the future. This course is intended to serve as an introduction to the upper-level technology courses. **Pre-Requisite: None**

Introduction to Computer Programming

Course #INA-730 1 Credit 3 Syracuse University Credits*

This course is offered with optional registration into Project Advance from Syracuse University (SUPA). Upon completion of the course, *Syracuse registration and *payment the student will have a transcript from Syracuse University with 3 college credits earned for course *ECS102 Introduction to Computing*. The course is intended for all students wishing to peruse engineering, computer science, and related fields. Students who have obtained a high level of achievement in earlier studies, and wish to be challenged with the rigor of taking a college-level course during their high school career should consider Introduction to Computer Programming. The course covers computing concepts, principles of programming, applications of computing concepts, and problem solving in engineering and computer science. Laboratory topics will include problem solving projects from various engineering disciplines and gaming industries. Acceptable languages are C++ or Java as well as the exploration of multiple operating systems and platforms such as Linux, Arduino, and Raspberry Pi. *Juniors and Seniors only.* **Recommended: Geometry, Physics, and Principles of Engineering**

Video Production I

Course #INA-727 1 Credit

This course introduces students to the use of digital video production to represent and convey a message effectively. The course will cover all aspects of production, including scripting, camera work, producing and directing, editing and adding media objects such as text, graphics, video, animation, sound and special effects. Students will participate in project-based learning activities to design, develop and produce multimedia products that will enhance their creative writing and journalism skills. These products may be broadcast to classmates, schoolmates and the Carmel School District community. **Pre-Requisite: None**

Video Production II

Course # INA750 1 Credit

This course provides advanced training in pre and post production jobs and competencies, current industry video equipment and software (Adobe Premiere, After Effects) and the collaborative nature of the creative process involved in video production. Students will analyze and produce examples of techniques and special effects used in various entertainment and industry sectors. Units will be designed around the creation of original videos that students will write, perform, film, and edit. Students will film high school events and original content for RamTV, which may be broadcast to the high school or district wide. **Pre-Requisite: Video Production I**

Manufacturing Systems Technology

Course #INA-724 .5 Credit (Emphasis on Wood)

Course #INA-725 .5 Credit (Emphasis on Metal)

This class is an exploratory program covering the uses of hand and power tools, the study of wood/metal types and related materials, joinery techniques, assembly and finishing. Students will also take part in a classroom mass production, as well as individual projects. A second half credit Technology course is required to obtain a full unit of credit. **Pre-Requisite: None**

Home Maintenance

Course #INA-729 .5 Credit

This course is designed for students desiring experience in various areas of home repair. The course covers tools use, plumbing, appliance maintenance, framing, roofing, sheetrock repair, tile work and minor structural repair. Emphasis is placed on fixing basic issues found in a typical apartment or house to save thousands in repair bills.

Pre-Requisite: None

Automotive and Small Engine Maintenance

Course #INA-726 1 Credit

The first half of this course focuses on the maintenance of all types of lawnmowers, snowblowers, ATV's, UTV's and anything in between. Students will perform oil changes and general maintenance for all these types of machinery. The second half of the year focuses on automotive maintenance. Students will explore the different systems in an automobile and perform maintenance on these systems. Examples include: oil changes, disc brake replacement, and diagnoses of all issues pertaining to a vehicle. Students will also learn skills such as how to mount and dismount tires, balance tires and general tire safety and how to operate a 10,000 lb. car lift while performing maintenance on automobiles and trucks. Instruction will include skill development pertaining to tools and test equipment. This course is intended primarily for upper classmen. **Pre-Requisite: None**

Production Technology

Course #INA-720 .5 Credit

This course provides a working knowledge of production systems in industry. Students will experience using our CNC Machine, Laser Cutting/Engraving Machine and 3-D printing machines to complete projects. Students will learn how to use the machines for mass producing a product. This course provides a background for students who, upon graduation from high school, want to immediately begin work in industry or have a desire to attend a technical school or college. **Pre-Requisite: None. However, #INA-745 PLTW Introduction to Engineering Design is recommended or prior knowledge in AutoDesk Inventor, Fusion 360 or OnShape CAD is helpful.**

Construction Technology

Course #INA-721 .5 Credit

This is a hands-on study of the many systems and skills involved in constructing buildings. The course content includes design, materials selection, and finance arrangement. Students will gain an introductory experience in framing, roofing, plumbing, insulation, electrical work and blueprint reading. **Pre-Requisite: None**

WORLD LANGUAGES

French

French Language and Culture I

Course #LAN-400 1 Credit

This is an introductory course open to those who are interested in learning to communicate in French. This course is **not** designed for students with prior knowledge of the language (Students who speak the language at home). The main objective is to learn about new and diverse cultures using the language as naturally as possible via comprehensible input strategies. In this way, students will learn as children learn their first language(s), through reading stories and listening. Overall communication in the language is emphasized. **Pre-requisite: None**

French Language and Culture II

Course #LAN-401 1 Credit

This is a continuation of French Language and Culture I. Students will continue to learn about the many products, practices, and perspectives of the Francophone world while using French. Special emphasis is placed on communicative ability and developing towards the Intermediate Low level of language proficiency. This course is **not** designed for students with prior knowledge of the language (Students who speak the language at home). **Pre-requisite: French I**

French Language and Culture III

Course #LAN-402 1 Credit

French Language and Culture III continues the work of French Language and Culture II. Students will continue to learn about the many products, practices, and perspectives of the Francophone world while using French. Students will be able to discuss familiar topics using strings of sentences. The proficiency goal by the end of this level is Intermediate Low. Students will take a NY State Proficiency Examination at the end of this level. This course is **not** designed for students with prior knowledge of the language (Students who speak the language at home). **Pre-requisite: French II**

French Language and Culture III Honors

Course #LAN-402H 1 Credit

In French Language and Culture III Honors, students will continue the work of French Language and Culture II in preparation for a final NY State Proficiency Exam at the end of the year. Honors' students will complete assessments and projects of a more rigorous design while learning about many products, practices, and perspectives of the Francophone world. Students will be able to discuss familiar topics using strings of sentences at the Intermediate Low-Mid level of language proficiency. This course is **not** designed for students with prior knowledge of the language (Students who speak the language at home). **Pre-requisite: Teacher recommendation**

SUNY French IV/College Level

CHS Course #LAN-432 1 Credit

WCC Course #FRE-201 (Intermediate French I) 3 College Credits

The primary focus of this course is on communication in French at an Intermediate Mid level of language proficiency. This course dives deeper into grammatical concepts extracted from authentic cultural resources (news articles, blogs, short stories, movies, authentic videos, poetry, and more). **Students must complete an application to Westchester Community College and are required to pay a fee for college credits.** **Pre-requisite: Successful completion of French III with the passing of the final exam AND Teacher Recommendation. Only for Juniors and Seniors.**

SUNY French V/College Level

CHS Course #LAN-433 1 Credit

WCC Course #FRE-202 (Intermediate French II) 3 College Credits

This course is a continuation of French IV/College Level. Its primary focus is on communication in French at an Intermediate Mid-High level of language proficiency. This course dives deeper into grammatical concepts extracted from authentic cultural resources (news articles, blogs, short stories, movies, authentic videos, poetry, and more). During this level, students are eligible to apply for the Seal of Biliteracy. ***Students must complete an application to Westchester Community College and are required to pay a fee for the college credits.***
Pre-Requisite: French IV/College Level AND Teacher Recommendation. Only for Juniors and Seniors.

Italian

Italian Language and Culture I

Course #LAN-420 1 Credit

This is an introductory course open to those who are interested in learning to communicate in Italian. This course is ***not*** designed for students with prior knowledge of the language (Students who speak the language at home). The main objective is to learn about new and diverse cultures using the language as naturally as possible via comprehensible input strategies. In this way, students will learn as children learn their first language(s), through reading stories and listening. Overall communication in the language is emphasized. **Pre-requisite: None**

Italian Language and Culture II

Course #LAN-422 1 Credit

This is a continuation of Italian Language and Culture I. Students will continue to learn about the many products, practices, and perspectives of the Italian-speaking world while using Italian. Special emphasis is placed on communicative ability and developing towards the Intermediate Low level of language proficiency. This course is ***not*** designed for students with prior knowledge of the language (Students who speak the language at home). **Pre-requisite: Italian I**

Italian Language and Culture III

Course #LAN-423 1 Credit

Italian Language and Culture III continues the work of Italian Language and Culture II. Students will continue to learn about the many products, practices, and perspectives of the Italian-speaking world while using Italian. Students will be able to discuss familiar topics using strings of sentences. The proficiency goal by the end of this level is Intermediate Low. Students will take a NY State Proficiency Examination at the end of this level. This course is ***not*** designed for students with prior knowledge of the language (Students who speak the language at home). **Pre-requisite: Italian II**

Italian Language and Culture III Honors

Course #LAN-423H 1 Credit

In Italian Language and Culture III Honors, students will continue the work of Italian Language and Culture II in preparation for a final NY State Proficiency Exam at the end of the year. Honors' students will complete assessments and projects of a more rigorous design while learning about the many products, practices, and perspectives of the Italian-speaking world. Students will be able to discuss familiar topics using strings of sentences at the Intermediate Low-Mid level of language proficiency. This course is ***not*** designed for students with prior knowledge of the language (Students who speak the language at home). **Pre-requisite: Teacher recommendation**

SUNY Italian IV/College Level

CHS Course #LAN-470 1 Credit

WCC Course #ITL-201 (Intermediate Italian I) 3 College Credits

The primary focus of this course is on communication in Italian at an Intermediate Mid level of language proficiency. This course dives deeper into grammatical concepts extracted from authentic cultural resources (news articles, blogs, short stories, movies, authentic videos, poetry, and more). ***Students must complete an application to Westchester Community College and are required to pay a fee for the college credits.*** Pre-requisite: Successful completion of Italian III with the passing of the final exam AND Teacher Recommendation. ***Only for Juniors and Seniors.***

SUNY Italian V/College Level

CHS Course #LAN-471 1 Credit

WCC Course #ITL-202 (Intermediate Italian II) 3 College Credits

This course is a continuation of Italian IV/College Level. Its primary focus is on communication in Italian at an Intermediate Mid-High level of language proficiency. This course dives deeper into grammatical concepts extracted from authentic cultural resources (news articles, blogs, short stories, movies, authentic videos, poetry, and more). During this level, students are eligible to apply for the Seal of Biliteracy. ***Students must complete an application to Westchester Community College and are required to pay a fee for the college credits.*** Pre-Requisite: Italian IV/College Level AND Teacher Recommendation. ***Only for Juniors and Seniors.***

Spanish

Spanish Language and Culture I

Course #LAN-410 1 Credit

This is an introductory course open to those who are interested in learning to communicate in Spanish. This course is ***not*** designed for students with prior knowledge of the language (Students who speak the language at home). The main objective is to learn about new and diverse cultures using the language as naturally as possible via comprehensible input strategies. In this way, students will learn as children learn their first language(s), through reading stories and listening. Overall communication in the language is emphasized. **Pre-requisite: None**

Spanish Language and Culture II

Course #LAN-411 1 Credit

This is a continuation of Spanish Language and Culture I. Students will continue to learn about the many products, practices, and perspectives of the Hispanic world while using Spanish. Special emphasis is placed on communicative ability and developing towards the Intermediate Low level of language proficiency. This course is ***not*** designed for students with prior knowledge of the language (Students who speak the language at home). **Pre-requisite: Spanish I**

Spanish Language and Culture IIa*

Course #LAN TBD 1 Credit

This is the first year of a two-year sequence that continues the fundamentals of Spanish I. Students will continue to learn about the many products, practices, and perspectives of the Hispanic world while using Spanish over a two-year period. Special emphasis is placed on communicative ability and developing towards the Intermediate ability and developing towards the Intermediate Low level of language proficiency. This course is ***not*** designed for students with prior knowledge of the language (Students who speak the language at home). **Pre-requisite: Spanish I, Teacher Recommendation.**

*PENDING BOE APPROVAL

Spanish Language and Culture IIb*

Course #LAN TBD 1 Credit

This is the second year of a two-year sequence that continues the fundamentals of Spanish IIa. Students will continue to learn about the many products, practices, and perspectives of the Hispanic world while using Spanish over a two-year period. Special emphasis is placed on communicative ability and developing towards the Intermediate Low level of language proficiency. This course is not designed for students with prior knowledge of the language (Students who speak the language at home). **Pre-requisite: Spanish IIa, Teacher Recommendation.**

***PENDING BOE APPROVAL**

Spanish Language and Culture III

Course #LAN-412 1 Credit

Spanish Language and Culture III continues the work of Spanish Language and Culture II in preparation for a NY State Proficiency Exam. Students will continue to learn about the many products, practices, and perspectives of the Hispanic world while using Spanish. Students will be able to discuss familiar topics using strings of sentences. The proficiency goal by the end of this level is Intermediate Low-Mid with a focus on gaining confidence in reading, writing, listening, and speaking. This course is *not* designed for students with prior knowledge of the language (Students who speak the language at home). **Pre-requisite: Spanish II**

Spanish Language and Culture III Honors

Course #LAN-412H 1 Credit

In Spanish Language and Culture III Honors, students will continue the work of Spanish Language and Culture II in preparation for a final NY State Proficiency Exam at the end of the year. Honors' students will complete assessments and projects of a more rigorous design while learning about the many products, practices, and perspectives of the Hispanic world. Students will be able to discuss familiar topics using strings of sentences at the Intermediate Low-Mid level of language proficiency. This course is not designed for students with prior knowledge of the language (Students who speak the language at home). **Pre-requisite: Teacher Recommendation**

SPANISH III for Heritage Spanish Speakers

Course #LAN-412HL 1 Credit

This course is designed for students who already have language proficiency in Spanish. Instruction will be delivered in Spanish through authentic texts and culturally relevant topics aligned to the NYS World Language Standards. It is intended to expand bilingual Heritage students' knowledge of Spanish by providing them with opportunities to develop and improve each of the basic language skills. Successful completion of this class will allow students to continue into college-credit bearing courses, SUNY WCC SPA 201 and SPA 202 in their junior and senior years with the ultimate goal of earning the Seal of Biliteracy. **Pre-requisite: Students should already have credits from French or Italian I and II towards earning their World Language credits; Approval by World Language Department Chair**

SUNY Spanish IV/College Level

CHS Course #LAN-475 1 Credit

WCC Course #SPA-201 (Intermediate Spanish I) 3 College Credits

The primary focus of this course is on communication in Spanish at an Intermediate Mid level of language proficiency. This course dives deeper into grammatical concepts extracted from authentic cultural resources (news articles, blogs, short stories, movies, authentic videos, poetry, and more). ***Students must complete an application to Westchester Community College and are required to pay a fee for the college credits.*** **Pre-requisite: Successful completion of Spanish III with the passing of the final exam AND Teacher Recommendation. Only for Juniors and Seniors.**

SUNY Spanish IV/College Level for Heritage Spanish Speakers

CHS Course #LAN-475HLH 1 Credit

WCC Course #SPA-201 (Intermediate Spanish I) 3 College Credits

The primary focus of this course is on communication in Spanish designed for students who already have language proficiency in Spanish. This course dives deeper into grammatical concepts extracted from authentic cultural resources (news articles, blogs, short stories, movies, authentic videos, poetry, and more). Students must complete an application to Westchester Community College and are required to pay a fee for the college credits. **Pre-requisite: Successful completion of Spanish III with the passing of the final exam AND Teacher Recommendation. Only for Juniors and Seniors.**

SUNY Spanish V/College Level

CHS Course #LAN-476 1 Credit

WCC Course #SPA-202 (Intermediate Spanish II) 3 College Credits

This course is a continuation of Spanish IV/College Level. Its primary focus is on communication in Spanish at an Intermediate Mid-High level of language proficiency. This course dives deeper into grammatical concepts extracted from authentic cultural resources (news articles, blogs, short stories, movies, authentic videos, poetry, and more). During this level, students are eligible to apply for the Seal of Biliteracy. ***Students must complete an application to Westchester Community College and are required to pay a fee for the college credits.*** Pre-Requisite: Spanish IV/College Level AND Teacher Recommendation. ***Only for Juniors and Seniors.***

SUNY Spanish V/College Level for Heritage Spanish Speakers

CHS Course #LAN-476HLH 1 Credit

WCC Course #SPA-202 (Intermediate Spanish II) 3 College Credits

This course is a continuation of Spanish IV/College Level. The primary focus of this course is on communication in Spanish designed for students who already have language proficiency in Spanish. This course dives deeper into grammatical concepts extracted from authentic cultural resources (news articles, blogs, short stories, movies, authentic videos, poetry, and more). During this level, students are eligible to apply for the Seal of Biliteracy. ***Students must complete an application to Westchester Community College and are required to pay a fee for the college credits.*** Pre-Requisite: Spanish IV/College Level AND Teacher Recommendation. ***Only for Juniors and Seniors.***

Introduction to Spanish

Course #LAN-409 1 Credit

This course is offered to only those seniors or juniors who have not earned their required language credit necessary to graduate with a Regents Diploma. A variety of useful vocabulary and language skills will be emphasized. When registering for this course, seniors will be accepted into the program first, followed by juniors. If there is space, underclassmen may be considered with approval. This does ***not*** meet the pre-requisite for Spanish Level 2. **Approval by World Language Department Chair required.**



CARMEL HIGH SCHOOL

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PRINCIPAL
BRIAN PIAZZA

ASSISTANT PRINCIPAL
VINCENT FINO

ASSISTANT PRINCIPAL
JOHN FRATTO

ASSISTANT PRINCIPAL
LAURA WEISS

CREDIT REVIEW FOR GRADES 9 – 12

Cohort:

Class of 2025 (Those entering grade 9 in 2021)

Class of 2027 (Those entering grade 9 in 2023)

Class of 2026 (Those entering grade 9 in 2022)

Class of 2028 (Those entering grade 9 in 2024)

MINIMUM CREDITS REQUIRED TO GRADUATE (22)

Course	Credits Required for Graduation	
	Regents Diploma	Advanced Diploma
English	4	4
Social Studies	4	4
Math	3	3
Science	3	3
Foreign Language	1	3
PE	2	2
Elective	3.5	1.5
Art/Music	1	1
Health	.5	.5

EXAMS NEEDED FOR LOCAL DIPLOMA

- ◆ English Regents
- ◆ Global Studies Regents
- ◆ US History Regents
- ◆ Math Regents
- ◆ Science Regents

Passing Regents Grade for students
with an IEP is 55-64

EXAMS NEEDED FOR REGENTS DIPLOMA*

- ◆ English Regents
- ◆ Global Studies Regents
- ◆ US History Regents
- ◆ Math Regents
- ◆ Science Regents

PASSING REGENTS GRADE IS 65

*Students must have a combined 90 average in the 5 Regents exams listed above for a Regents Honors Diploma.

EXAMS NEEDED FOR REGENTS DIPLOMA WITH ADVANCED DESIGNATION*

- ◆ English Regents
- ◆ Global Studies Regents
- ◆ US History Regents
- ◆ Algebra Regents
- ◆ Geometry Regents
- ◆ Algebra II Regents
- ◆ Any 2 Science Regents (1Life/1Physical)
- ◆ Foreign Language Local Assessment

PASSING REGENTS GRADE IS 65

*Students must have a combined 90 average in the
8 Regents exams listed above for a Regents Honors
Diploma with Advanced Designation.



CARMEL HIGH SCHOOL

30 FAIR STREET • CARMEL, N.Y. • 845-225-8441 • FAX 845-228-2307

PRINCIPAL
BRIAN PIAZZA

ASSISTANT PRINCIPAL
VINCENT FINO

ASSISTANT PRINCIPAL
JOHN FRATTO

ASSISTANT PRINCIPAL
LAURA WEISS

NYSED Career and Technical Education Diploma Endorsement

Career & Technical Education

Core Courses, Choose 3 Credits from the following courses:

Math & Financial Applications (1 Credit)
College Management (.5 Credit)
College Sports & Entertainment Marketing (.5 Credit)
College Business Law (.5 Credit)
College Business Economics (.5 Credit)

Choose 2 credits from the following courses:

Digital Media (.5 Credit)
College Accounting (1 Credit)
Career & Financial Strategies (1 Credit)
Skills for Your Future (.5 Credit)

Weighted Courses:

Honors, Advanced Placement and College level courses are weighted in recognition of the more rigorous course curricula students engage in those courses. Course weighting impacts only the student's weighted cumulative grade point average indicated on the student's transcript. Course grades that appear on report cards, Home Access Center (in the report card area) and on student transcripts are unweighted.

Honors Courses at Carmel High School are offered in the following subjects: *Algebra II; Biology; Carmel Chorus; Chemistry; Concert Band; Concert Orchestra; English 9; English 10; French Language and Culture III; Freshman Band; Freshman Orchestra; Geometry; Global History and Geography I and II; Italian Language and Culture III; Spanish Language and Culture III.* Honors courses are weighted 1.1 towards a student's weighted cumulative grade point average.

Advanced Placement Courses are offered in the following subjects: *African American Studies; American History; Biology; Calculus AB; Calculus BC; Chemistry; Computer Science A; English Language and Composition; English Literature and Composition; Human Geography; Physics I; Physics II; Psychology; Studio Art - Drawing; U.S. Government and Politics; U.S. History; World History.* Advanced Placement courses are weighted 1.15 towards a student's cumulative grade point average.



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College level courses are offered in the following subjects:

From **Dutchess Community College**: *Speech 100; Speech 101; History of Women in the U.S.; Latin American Studies; Sociology; U.S. History.*

From **Westchester Community College**: *Advanced College Pre-Calculus; Art of the Ancient World; Art of the Modern World; Calculus I; College Algebra; College Accounting; Concert Choir; English 101/102; French IV; French V; Italian IV; Italian V; Music Theory; Pre-Calculus; Spanish IV; Spanish V; Statistics; Treble Chamber Choir; Symphony Orchestra; Wind Ensemble.*

From **SUNY Albany**: *Classism, Racism, and Sexism; Science Research and Advanced Science Research.*

From **Rochester Institute of Technology**: *Introduction to Engineering; Principles of Engineering; Civil Engineering.*

From **St. Thomas Aquinas College**: *College Business Economics; College Business Law, College Management; College Sports & Entertainment Marketing.*

From **Syracuse University**: *Introduction to Computer Programming; SUPA Chemistry, SUPA Economics; SUPA Forensics.*

From **University of New Haven**: *Engineering Design and Development.*

College level courses are weighted 1.15 towards a student's cumulative grade point average.