

**CARMEL HIGH SCHOOL
 COURSE OFFERING GUIDE
 2009-2010**

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

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

January, 2009

Dear Students:

The selection of your courses is extremely important and should be done with input from your parents and guidance 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: student 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, a Mathematics, Global History, 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 junior; and 16.5 credits to be a senior. English must be passed each year in order to progress. **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 guidance 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,
Kevin Carroll
 Principal

TABLE OF CONTENTS

<i>DEPARTMENT</i>	<i>PAGES</i>
Art	2 – 3
Business	3 – 5
English	5 – 7
Languages Other Than English	7 – 9
Mathematics	9 – 11
Music	11
Physical Education	11
Health Education	12
Science	12 – 14
Social Studies	14 – 15
Special Education Department	16 – 17
Technology	17 – 19
Tech Center at Yorktown BOCES	19
Graduation Requirements	20
Non-Discrimination Policy	20

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.com for most recent information.

ART EDUCATION

STUDIO IN ART

602 1 Credit

This is a one-year foundation course for those planning to elect further art courses or for those desiring a broad general background in the visual arts as part of their general education. Studio in Art introduces the basic areas of drawing from life, painting, printmaking, advertising art, calligraphy and design with an emphasis on two-dimensional projects. Art history is used to complement the studio environment. All students are required to do a term paper. All students are required to submit a weekly sketch, term paper, notebook assignments and a portfolio for the final marking period. A written examination in June is administered.

Prerequisite: None

CREATIVE CRAFTS I

620 1 Credit

This is a general class which introduces the basic area of crafts. Projects in a wide variety of areas are explored: paper mache, metal tooling, paper cutting, and mosaics. Emphasis is on three-dimensional work (sculpture). Notebooks and portfolio review at each marking period. Recommended for the beginning student

Prerequisite: None

CREATIVE CRAFTS II

623 1 Credit

An advanced level crafts class which explores in depth varied crafts techniques. Puppetry, bookbinding and beading are some areas that will be covered. This class is for the person who truly enjoys creating with his/her own hands. Notebooks and portfolio review at each marking period.

Prerequisite: Creative Crafts I and Teacher Recommendation

DRAWING & PAINTING I

607 1 Credit

This is an advanced level class which concentrates on refining and expanding drawing techniques, painting abilities and an awareness of artistic styles. This course is designed for the serious art major.

Prerequisite: Studio in Art. Portfolio required for completion. Second year is possible, with teacher recommendation.

DRAWING & PAINTING II

609 1 Credit

An advanced level class that builds and expands upon what students learned in 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 developing a portfolio required for completion.

Prerequisite: Drawing & Painting I

DRAWING & PAINTING III

610 1 Credit

An advanced elective for students who are seriously interested in working in depth and developing an art portfolio to be evaluated at the end of the school year. Students will be encouraged to be inventive and to view art

as an ongoing process investigating formal, as well as 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.

Prerequisite: Drawing & Painting I & II

PHOTOGRAPHY

645 1 Credit

This is an elective stressing the proper use of darkroom equipment including various types of cameras, films, paper, chemicals and matting techniques. Lab periods as well as classroom discussions and critiques will emphasize both the technical and artistic aspects of BLACK and WHITE photography. A series of lectures will include the history of photography and the evolution of the camera and printed images. Portfolio, tests and notebook required for completion. Lab fee.

NOTE: 35mm SLR camera is required. Juniors and Seniors recommended.

ADVERTISING ART

646 1 Credit

This is an advanced Regents level class which concentrates on the professional requirements of the commercial artist. Students will build on design skills learned in Studio Art to develop visual images. The course serves as an introduction to commercial art with an emphasis in areas of graphic design, lettering and illustration. Aspects of film production, cartooning and fashion will be introduced. Accuracy and professionalism are stressed.

Prerequisite: Students who have taken Studio Art or by Teacher recommendation.

GRAPHIC ART

647 1 Credit

This is an advanced 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, Illustration 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.

Prerequisite: Students who have taken Studio Art or by Teacher recommendation.

CERAMICS I

613 1 Credit

This is an advanced level class which deals with the area of clay. The student explores clay through wheel throwing and hand building techniques. Types of clay, glazing, firing and designing are learned through projects in functional ware and sculpture. Portfolio required for completion.

Prerequisite: One art course

CERAMICS II

615 1 Credit

An advanced level course builds on the foundation of techniques learned in Ceramics I.

Prerequisite: Ceramics I

3D DESIGN IN CERAMICS AND SCULPTURE

617 **1 Credit**

An advanced art class concentrating in the area of 3 Dimensional design using clay and a variety of media. Artistic principles of color, shape/form, texture and line will be explored. (Students may pursue AP 3-D Design credit on an individual basis with permission of the instructor.)

Prerequisite: One Art Course

DESIGN & DRAWING FOR PRODUCTION I

632 **1 Credit**

An introductory Regents level course designed to expose the student to the world of design and drafting as it relates to manufacturing. This year long course emphasizes a universal graphic language through which students can express their ideas with creativity, clarity and exactness. CAD is introduced as students master concepts. Open to the beginning student. This course is recommended for students considering the fields of Drafting, Engineering and Architecture as a sequence. **Prerequisite: None**

DESIGN & DRAWING FOR PRODUCTION II

634 **1 Credit**

This is an intermediate level course which explores, in greater depth and detail, problems in design and drawing for production. Emphasis is on learning to deal with complex assignments and CAD applications with multi-technique representations. Students will be exposed to the preliminaries of Architecture.

Prerequisite: Design and Drawing for Production I

DESIGN & DRAWING FOR ARCHITECTURE III

635 **1 Credit**

This is an advanced course which concentrates on the field of architectural design. Students will incorporate the elements and principles of design and their acquired knowledge of architectural styles to create an entry for the Dutchess Community College Architectural Design competition. Assignments include developing architectural design documents, conceptual design drawings, floor plans, elevation drawings, detail drawings, renderings and models. Students will draw manually and with CAD. Portfolio required for completion.

Prerequisite: Design and Drawing for Production I is required and Design and Drawing for Production II is recommended.

DESIGN & DRAWING FOR PRODUCTION IV

Independent Study **1 Credit**

This is an advanced elective for the drafting major. The class stresses community planning and special design problems. Students work through design process and presentation.

Prerequisite: At least two other drafting classes

ART HISTORY

640 **1 Credit**

AP ART HISTORY

641 **1 Credit**

An academic survey of history as reflected in creative works of art. Students will develop an understanding and knowledge of diverse historical and cultural contexts of architecture, sculpture, painting and other art media. Students will also learn to understand works of art through visual analysis. The general course (640) is suited for students who are interested in the history of art. The AP section (641) reflects the work load equivalent to that of an introductory college art history survey. Students in this section are required to sit for the AP exam.

Prerequisite: none

AP STUDIO ART-DRAWING

611 **1 Credit**

An advanced level course designed for the serious and/or college bound art major. This course will concentrate on individualized instruction, helping students to assemble college portfolios and prepare select students for meeting requirements for an Advanced Placement exam. Required homework assignments make it necessary for students to have their own art materials at home.

Prerequisite: Teacher Recommendation in Junior Year. Summer assignment given.

INDEPENDENT STUDY IN STUDIO AREAS

644 **1/2 Credit**

The Art Department offers advanced courses and independent study credit in the fields of crafts, ceramics, photography, painting and drawing, curatorial studies and more for the interested student. Entry requirements are based on student ability, portfolio, and faculty recommendation. Areas of specialization must be established prior to the student's enrollment for credit. Students may take independent study for ½ credit per semester. See your art teacher for further details.

PORTFOLIO PREPARATION

PENDING BOARD OF ED. APPROVAL **1 credit**

An advanced level course designed to provide the serious and/or college bound art major with the opportunity to begin a portfolio of work in their junior year. Through individualized instruction the class will introduce students to the requirements of an AP or college portfolio and help them develop their individual styles.

Prerequisite: One year of Drawing & Painting and Teacher Recommendation in Sophomore year. Summer assignment given.

REV.12/1/08

BUSINESS EDUCATION

CAREER AND FINANCIAL MANAGEMENT (INTRO. TO OCCUPATIONS)

597 **1 Credit**

This course is a core requirement for any students seeking a sequence in Business Education. The class will cover many exciting and informative areas including: personal

budgeting, checkbooks, job search, resumes, actual interviews, running a business using the school store, participation in a job experience program, and several guest speakers from the business world. Running the school store will be an important part of this course.

Prerequisite: NONE

INTRODUCTION TO COMPUTER LITERACY

538 **1 Credit**

This course is designed to introduce students to the alphabetic keyboard. The students will learn how to become "touch typists" with the ability to use that skill to explore modern computer software used by business. The students will become familiar with the Microsoft Office Suite, The Internet, and Windows XP. They will have the opportunity to learn word processing, database, and spreadsheet software applications (Excel), as well as presentation software (PowerPoint). After completing this course the students will have a better understanding of how to use a computer in their high school career and beyond.

Prerequisite: NONE

MICROSOFT OFFICE USER SPECIALIST (MOS)

564 **.5 Credit**

Upon completion of this course, the student will receive one or more advanced certifications from Microsoft for being proficient in one of the Microsoft areas (WORD, PowerPoint, Excel, Access). This certification can be a valuable asset in any job search, college search, or career advancement. Achieving MOS certification gives students the marketable skills necessary to set them apart in the competitive job market. The Microsoft Office User Specialist Program is the most recognized program for certifying proficiency in Microsoft Office desktop applications. **Please note: Certification will be available in WORD and EXCEL ONLY. There is a charge for the certification test.**

Prerequisite: Computer Literacy.

COLLEGE ACCOUNTING

565 **1 Credit**

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 taken for college credit through Dutchess Community College. Eight (8) potential college credits earned at no cost to the student. Open only to juniors and seniors.**

Prerequisite: NONE

COLLEGE BUSINESS LAW

570 **1 Credit**

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. The emphasis of this course is placed on consumer protection and the means to avoid legal entanglements. **This course can be taken for college credit through St. Thomas Aquinas College. This course can be used to fulfill the Law requirement for graduation. Open only to juniors and seniors. Prerequisite: NONE**

COLLEGE MANAGEMENT

595 **.5 Credit**

This course will involve a hands-on learning experience in: responsibility; management; personal development;

citizenship and communications. This class will run in conjunction with the "Future Business Leaders of America" club. Students will plan, organize and execute successful projects that will utilize these goals. Such projects include: public speaking; business competitions; showcase displays; newsletters and individual and group projects. It is recommended that class members join FBLA. This is a great half-year course for business majors. **This course can be taken for college credit through St. Thomas Aquinas College.** In addition to the regular course requirements, students will be required to complete extra text chapters, readings, case studies and projects individually. Optional review sessions will be provided for these chapters after school. **Open only to Juniors & Seniors.**

Prerequisite: NONE

COLLEGE SPORTS AND ENTERTAINMENT MARKETING

555 **.5 Credit**

This course is designed for students who are interested in the field of sports and entertainment from the perspective of marketing and the basic principles and practices of retailing as they relate to everyone as a consumer or worker. Included in the 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 through St. Thomas Aquinas College.** In addition to the regular course requirements, students will be required to complete extra text chapters, readings, case studies and projects individually. Optional review sessions will be provided for these chapters after school. **Open only to Juniors and Seniors.**

Prerequisite: NONE

WEB PAGE DESIGN

541 **.5 Credit**

This half-year course will help students plan and develop well-designed websites that combine effective navigation with the balanced use of graphics, text and color. Varied Macromedia programs including Dreamweaver, Fireworks and Flash (for animation) will be taught and integrated into websites. Basic HTML skills will be covered along with in-depth knowledge of creating a website from scratch to publication.

Prerequisite: Computer Literacy or instructor's approval.

MATH AND FINANCIAL APPLICATIONS

510 **1 Credit**

This course is designed to prepare students for college level business programs and an understanding of the complex financial world they will encounter during their lives. **This course can be used to fulfill one of the mathematics requirements for graduation.**

Pre-requisite: Successful completion of Algebra.

CORPORATE COMMUNICATIONS/ BUSINESS ANALYSIS

511 **1 Credit**

This course provides students with the skills and strategies necessary to communicate successfully in the corporate/business world. They will learn to analyze information, compose documents, develop and strategize

concepts and ideas in a professional manner. This course can be used to fulfill one of the English requirements.

Pre-requisite: Successfully complete the English Regents.

BUSINESS ECONOMICS

512 . 5 Credit

This course will present economic information and generate conclusions in different formats, including graphic representations, computer models, research reports, and an oral presentation. This course can be used to fulfill the Economics requirement.

Prerequisite: NONE

WORK EXPERIENCE

599 1 Credit

This program allows the student to be placed with an employer for the purpose of learning work-related skills. Students will earn school credit as well as a salary. Students are given the opportunity to be placed in the field for which he/she is being trained and will gain valuable experience.

Student must be 16 or older. 150 hours = ½ credit, 300 hours = 1 credit.

STRATEGIES FOR SUCCESS

PENDING BOARD OF ED. APPROVAL .5 Credit

This course teaches the skills and knowledge required to succeed in the real world. Designed to help incoming freshman navigate the transition from Middle School to High School through High School Orientation, Study Skills, Self-Assessment, and Team Building. Students will also investigate and prepare for College and Careers, Develop Workplace “Know-How” for effective job performance, and develop Financial Literacy (personal budgeting, checkbooks, credit cards). In addition, students will receive real-life business experience by running the CHS Marketplace, (The Carmel High School Store).

Prerequisite: Mandatory class for all incoming 9th grade.

Rev. 11/28/08

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 the literature, which is used as the basis for the development of all of the related skills. With the exception of Advanced Placement, the program for seniors consists entirely of electives.

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. In January of junior year, 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 that exam.

52 ENGLISH 9 1 Credit

093 English 9 Workshop

62 ENGLISH 10 1 Credit

71 ENGLISH 11 1 Credit

ENGLISH WORKSHOP

94 . 5 Credit

This is a program for students who desire improvement in their reading and writing skills. The English Workshop teachers will assess the needs of each student to discover the best way to help the student excel in English. The students who take this course will choose the novels they would like to read. 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. This course is open to all students as an English elective.

ENGLISH HONORS

GRADE 10

61 1 Credit

Students in the honors program have shown outstanding ability and 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 teacher recommendation and success on a competitive writing sample are required of all candidates to the honors and AP classes. A most important component for honors placement is a good work ethic on the part of the candidate.

AP ENGLISH LANGUAGE

72 11th grade 1 Credit

AP ENGLISH LITERATURE

81 12th grade 1 Credit

The last two years of the honors program consist of advanced placement courses. Students enrolled in these programs take the AP exam at the end of the school year. Success in this examination qualifies a student to receive college credit subject to determination by the individual college. **The concentration in grade 11 is on writing about non-fictional genres, and in grade 12 it is on writing about imaginative literature.**

ELECTIVE PROGRAM

English electives are offered primarily to seniors, as they replace the traditional English 12 program. In some cases, however, juniors are permitted to take English electives. If a student is seeking to complete a five year sequence, or to graduate in three years, they may take electives in their junior year. If space permits, juniors may also take English electives for enrichment purposes. **Juniors who take electives are expected to take a full English program of study during their senior year.** The Theatre course is also available to all students who would like to take an elective, but it is considered a senior level class.

THEATRE: THE STAGE AND THE PAGE

45 1 Credit

English Elective

Open to all students

This course is designed for students to experience plays as literature and the play as active art. The course focuses on

theatre history, a study of modern plays, playwrights, actors, acting and the production of plays. The course also includes all areas of theatre, including theatre design, costuming, play analysis, writing and acting. The culmination of this year long course is a school-wide production of a one-act play, completely student developed and executed – *The class average must be an 85 or higher for the play to be presented!* While this class is generally a great deal of fun, there are four major research papers, tests, essays and presentations involved in the requirements. While this is not a traditional English class, all New York Standards are upheld.

THE ART OF COMMUNICATING EFFECTIVELY

95 .5 Credit

English Elective: 1 semester

Open to Juniors and Seniors

In this class we will study the development of effective communication skills. We will focus on communication as it applies to interpersonal, group and public speaking skills. Students will be given guidelines for interpreting, explaining, and understanding the complexity of human communication.

In class, students will engage in small group discussions and role-play activities. Topics covered include: verbal and non-verbal communication, the art of listening, communication confidence, informative and persuasive speaking and argumentation. There will be instruction and practice to prepare students to speak effectively in public settings. Students will gain practical experience in speech composition, delivery and critique.

This course is an effective introduction to college-level communication courses.

CREATIVE WRITING

Semester I and II

88 1 Credit

English Elective

Open to Seniors only

This course is divided into four main units: poetry, short fiction, playwriting, and personal narrative. During the course of the first semester we engage in painting, coloring, designing collages, active reading and, of course, writing, all as 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.

COLLEGE EXPERIENCE

97 .5 Credit

English Elective: *Fall semester only

**Open to college bound seniors only

This class should be helpful to students in many ways. It allows them time to explore their education and career possibilities. It guides the students through the application process including: writing the college essay, filling out applications, organizing admission materials, and meeting deadlines. It provides resources to research different schools and possible majors. It teaches the students the skills to present themselves well to an admissions officer. It will show them what the college experience is all about.

Prerequisites: All students must read the novel *Acceptance* by Susan Coll for their summer reading choice (provided by teacher) and must have taken the PSAT in their Junior Year.

MYTHOLOGY

86 .5 Credit

English Elective: 1 semester

Open to Juniors and Seniors

The mythology of a people is far more than a collection of charming or terrifying tales. It is the commentary of the 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 the 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.

VOICES & IMAGES OF THE HOLOCAUST

89 1 Credit

English Elective: 1 semester

This course provides opportunities to explore through literature and film a world where tyranny prevailed and democratic values and institutions were destroyed. Through film and literary works, students can examine the consequences of prejudice unleashed. Students can reflect on the lessons of the Holocaust which intersect with their lives in a society where racism and ethnic divisiveness assault their consciousness almost daily. **Open to Juniors and Seniors only**

SHAKESPEARE

85 .5 Credit

English Elective: 1 semester

A literary/dramatic approach will provide a critical and stimulating basis for the student to go far beyond the usually covered aspects of Shakespeare's works. Reaction papers and discussion of the plays, the sonnets, and the other poetry will lead the student to a college level understanding of the works of the Bard. Works studied will vary at the discretion of the instructor. **Open to Juniors and Seniors**

SENIOR BOOK BUNCH

98 Pending Board Approval

½ Year .5 Credit

Students who love to read contemporary literature – this is the class for you. This senior level, post-English Regents, elective allows for students to choose what they read, and how they interpret and discuss what they read. Discussing

books will revolve not only around the book itself, but around making personal meaning with the literature. We will read, write, talk, laugh and enjoy the written word!

MODERN WORD

Pending Board Approval 1 credit

Utilizing the new tools of Web 2.0, such as podcasts, websites, and voicethreads, the class will be exploring the world of modern literature (All necessary computer skills will be included in the curriculum.). The class will study, discuss and analyze the philosophy, culture, poetry, music, art and people of our contemporary age. The work that begins in the classroom will evolve into a digital portfolio. The students will be required to use current technology to share their ideas with class members and the teacher, to do research for the course, to publish original work and complete the course portfolio. An important focus of this class is preparing the students for their college classes next year. Today's college student must be able to use a computer to register for classes, communicate with professors, arrange for housing and food, use the library sources and submit all of his/her course work. This course will be an excellent preparation for these requirements. **Open to Seniors Only**

INTRODUCTION TO FILM AND MEDIA

Pending Board Approval 1 Credit

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.

D.C.C. ENGLISH 101 - COMPOSITION I*

Semester 1 .5 credit (CHS)

3 credit hours (D.C.C.)

English 101 addresses the major principles of college writing, which are meant to serve students in all disciplines across the curriculum. The course concentrates primarily on expository and argumentative writing, traditional rhetorical modes, and effective composing, revising and editing strategies. English 101 covers MLA conventions, and a

research paper is required. Critical thinking and reading skills are also stressed.

Prerequisite: Students must pass a proficiency test administered by DCC in the spring of their Junior year and purchase the class text.

Text= The Sundance Reader by Mark Connelly, fifth edition

***Upon successful completion of this course, students will receive 3 college credits/ no tuition fee is required.**

D.C.C. ENG 102 - COMPOSITION II*

Semester 2 .5 credit (CHS)

3 credit hours (D.C.C)

A continuation of ENG 101; reading will include fiction, poetry and drama. Emphasis will be placed upon well organized written composition, factually supported conclusions and awareness of language variety. Effectiveness of expression and validity of judgment in the student's writing are stressed. *Text: The Norton Anthology, 9th edition*

Prerequisite: ENG 101 with a grade of C or better and purchase of class text.

*** Upon successful completion of this course, students will receive 3 college credits/ no tuition fee is required.**

WAR IN LITERATURE AND FILM

1 Semester .5 Credit

This elective will examine some of the best literature and major motion picture and documentary depictions of warfare in the 20th century. Each unit will situate the conflict in history (although this is not a history course) and then explore a variety of perspectives in literature, poetry, memoir, literary criticism, and film from the Great War, the Second World War, the war in Vietnam, and modern conflicts. Assessments will include informal written responses to the readings, an in-class oral presentation on one of the assigned book-length works or a group of shorter works, a 6-8 page research paper on an independent topic, and a final exam.

****The Dutchess Community College courses are linked together for one entire year.***

Rev.12/3/08

LANGUAGE OTHER THAN ENGLISH

SPANISH I

410 1 Credit

This is a beginning class open to anyone interested in studying Spanish. Upon the successful completion of this course, students will have built a solid foundation of the Spanish language structures. They will be able to understand the fundamentals of spoken Spanish and will be able to answer with accuracy, questions appropriate in this level. Students in Level IR, who have studied or who are currently studying a second foreign language, will have the opportunity to accelerate at mid-year to Level IIR with an average of 90 and with teacher recommendation.

SPANISH II

411 1 Credit

This course continues with an emphasis on oral communication. Understanding and speaking are the primary goals although some time is given to the development of reading and writing skills. Understanding and appreciation of the Spanish speaking countries are developed through reading selections and conversations. Cultural concepts include historical backgrounds, significant events, important personalities, social customs and outstanding contributions in the fields of art and literature.

Prerequisite: Spanish I

SPANISH II-A

417 **1 Credit**

This course is designed to include the curriculum for the first half of Spanish IIR. It will also include an extensive review of Spanish IR. This course is followed by Spanish II-B.

Prerequisite: Spanish I

SPANISH II-B

418 **1 Credit**

This course is a continuation of Spanish IIR-A. The second half of the curriculum will be covered and an innovative approach will offer students a variety of methods and materials.

Prerequisite: Spanish II-A

SPANISH III

412 **1 Credit**

This is a continuation and expansion of the student's ability to communicate in Spanish. Greater emphasis is placed on vocabulary building and grammar. The comprehensive New York State Regents is given to all who qualify.

Prerequisite: Spanish II or Spanish IIA & IIB

SPANISH IV

414 **1 Credit**

Reading and writing skills are improved with selections from classical and modern authors for Spanish discussion and understanding. College Achievement Tests are offered at this level.

SPANISH IV H

415 **1 Credit**

This is an honors course for those exceptional students who are interested in college-oriented study of Spanish.

Prerequisite: 90% in Spanish III and teacher recommendation

SPANISH-V COLLEGE LEVEL/HONORS

416 **1 Credit**

This course is designed to keep students current in their language study, particularly those who wish to continue their Spanish studies in college. Emphasis is placed on listening and communication skills as well as literature study.

Prerequisite: 85% in Spanish IV and teacher approval

AP SPANISH LANGUAGE V

419 **1 Credit**

This course is designed for the advanced student in Spanish who plans on taking the AP exam for college credit and advanced placement in college. High levels of grammar and literature are covered with an emphasis on oral communicative skills acquisition. ALL students must take the AP exam in May.

Prerequisite: Level IV Honors students will be accepted into the class first, with all successful students from level IV to be admitted if space permits

FRENCH I

400 **1 Credit**

This is an introductory course open to those who are interested in learning to communicate in French. The main objectives are the development of a speaking ability and a capacity to understand a person speaking the French language. We are also concerned with developing an understanding of the cultural aspects of the country. The customs and daily habits of the French people are studied

and discussed. Students in Level IR, who have studied or who are currently studying a second foreign language, will have the opportunity to accelerate at mid-year to Level IIR with an average of 90 and with teacher recommendation. Subject to availability.

FRENCH II

401 **1 Credit**

This course is a developmental continuation of French I. Special emphasis is placed on idiomatic expressions, vocabulary building and verb manipulation. The four basic components of French are sequentially developed, speaking with some reading and writing.

Prerequisite: French I

FRENCH III

402 **1 Credit**

French III expands the work of French II. Stress is given to building the ability to discuss and write everyday topics in French. A New York State Regents examination is offered to those students who qualify.

Prerequisite: French II

FRENCH IV/IVH

403 **1 Credit**

This is a course open to those students of exceptional ability who are interested in college-oriented study of French. Reading and writing skills are improved.

Prerequisite: French III and teacher recommendation for French IV H and a 90+ average is required.

AP FRENCH LANGUAGE - FRENCH V/H

404 **1 Credit**

This course is designed to further study French literature and authors with the emphasis on advanced grammar. Conducted entirely in the target language, the class provides sophisticated listening, reading, speaking and writing skill practice which extends the link between high school and university language. All AP students must take the AP exam in May.

Prerequisite for French V/H students: An 85% average in French IV and teacher recommendation.

ITALIAN I

420 **1 Credit**

This is an introductory course open to those who are interested in learning to communicate in Italian. The main objectives are the development of a speaking ability and a capacity to understand a person speaking the Italian language. We are also concerned with developing an understanding of the cultural aspects of the country. The customs and daily habits of the Italian people are studied and discussed. Students in Level IR, who have studied or who are currently studying a second foreign language, will have the opportunity to accelerate at mid-year to Level IIR with an average of 90% and with teacher recommendation.

ITALIAN II

422 **1 Credit**

This course is a developmental continuation of Italian I. Special emphasis is placed on idiomatic expressions, vocabulary building and verb manipulation. Comprehension and speaking continue to be developed. Films and tapes of contemporary Italian culture accompany the text.

Prerequisite: Italian I

ITALIAN III

423 **1 Credit**

This is a continuation and expansion of demonstrated ability of Italian II. Reading selections may include some well-known modern and classic authors. Ability to discuss everyday topics in the Italian language is stressed. The Italian New York State Regents examination is mandatory at conclusion of this course for qualified students.

Prerequisite: Italian II

ITALIAN IV

424 **1 Credit**

Designed to further the communicative abilities in Italian, as well as increase awareness of the cultural impact of Italian-Americans on society. Italian art, sculpture, music, and famous authors will be discussed in some detail.

Prerequisite: Italian III

ITALIAN IV HONORS

426 **1 Credit**

This is an honors course for those exceptional students who are interested in college-oriented study of Italian. Reading and writing skills are improved, with selections from classical and modern authors for Italian discussion and understanding.

Prerequisite: 90% in Italian III and teacher recommendation

ITALIAN-V COLLEGE LEVEL/HONORS

425 **1 Credit**

This course is designed to keep students current in their language study, particularly those who wish to continue their Italian studies in college. Emphasis will be placed on listening and communication skills and literature study.

Prerequisite: 85% in Italian IV/H and teacher approval

ITALIAN V

427 **1 Credit**

This course is designed for students studying Italian who wish to continue the practice of oral and written skills. Culture study and activities will also be emphasized.

Prerequisite: Italian IV

SPANISH FOR GRADUATION

409 **1 credit**

This course is offered to those students 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. Seniors will be accepted into the program first.

MATHEMATICS

GEOMETRY H

311 **1 Credit**

This one year course contains all of the material in the new NYS Regents Geometry course and additional topics in geometry, trigonometry, and algebra. The Geometry Regents exam will be administered in June.

Prerequisite: 85% in 8th grade accelerated Algebra or 90% in Algebra, 90% on Regents and teacher recommendation

ALGEBRA

312 **1 Credit**

A one year course is designed to prepare students for the New York State Integrated Algebra Regents exam which will be administered in June. This course is required for graduation in New York State.

ALGEBRA EXTENDED 9

314 **1 Credit**

A course specifically designed for students who need to master their basic computational skills consisting of the study of arithmetic processes as they relate to whole numbers, fractions and decimals. Particular attention will be given to applications required by the New York State Integrated Algebra Regents exam. Students who successfully complete this course will move into Algebra Extended 10, where they will take the NYS Regents exam in June.

TRIGONOMETRY H

321 **1 Credit**

This course includes everything in Trigonometry and, in addition, topics from pre-calculus.

Prerequisite: At least 85% in Geometry Honors or at least 90% in Geometry, 90% on the Geometry Regents and teacher recommendation.

GEOMETRY

322 **1 Credit**

A one year course designed to prepare students for the New York State Integrated Geometry Regents exam which will be administered in June.

Prerequisite: Successful completion of Algebra including a passing grade on the Regents and teacher recommendation.

COMPREHENSIVE GEOMETRY

323 **1 Credit**

This course will cover topics in algebra and geometry. It is designed for students who have a need for additional time to study the basics of geometry. There is no Regents exam given for this course, and Regents credit is not awarded.

Prerequisite: Successful completion of Algebra including a passing grade on the Regents and teacher recommendation.

ALGEBRA EXTENDED 10

324 **1 Credit**

Designed to follow Algebra Extended 9 (#314), this course will complete the content of the Algebra curriculum that was not covered in Algebra Extended 9. Course culminates in a June Algebra Regents.

Prerequisite: Successful completion of Algebra Ext. 9

TRIGONOMETRY

332 **1 Credit**

This one year course is designed to prepare students for the New York State Algebra II/Trigonometry Regents exam which will be administered in June.

Prerequisite: Successful completion of Geometry and teacher recommendation.

MATH B EXTENDED 12A

346 **1/2 Credit**

Designed to follow Math B Extended 11, this course will complete the Math B curriculum that was not covered in Math B Extended 11. This half year course will culminate with the Math B Regents exam in January.

Prerequisite: Successful completion of Math B Extended 11 or teacher recommendation.

MATH B EXTENDED 12B

347 **1/2 Credit**

Designed to follow Math B Extended 12A, this half year course will include topics from college algebra, trigonometry, and geometry. Students will have the opportunity to take the Math B Regents in June, if necessary, to improve their Math B Regents score.

Prerequisite: Successful completion of Math B Extended 12A, or teacher recommendation.

INTERMEDIATE ALGEBRA

333 **1 Credit**

This course consists of the study of real numbers, complex numbers, equations, inequalities, systems of equations, and graphing.

Prerequisite: Successful completion of Comprehensive Geometry or Geometry.

PRE-CALCULUS I

Semester 1

341 **.5 Credit**

A course designed to build on the skills developed in Algebra, Math B in preparation for college level mathematics. Topics included are from advanced algebra.

Prerequisite: Successful completion of Math B

PRE-CALCULUS II

Semester 2

342 **.5 Credit**

Designed to follow Pre-Calculus I with an emphasis on advanced geometry topics. Coordinate geometry, trigonometry, polar coordinates, space geometry and an introduction to calculus is included.

Prerequisite: Successful completion Pre-Calculus I

PRE-CALCULUS H

343 **1 Credit**

This course is the study of the properties of polynomial, rational, exponential and logarithmic functions, sequences, series, limits, continuity, and the derivative.

This course can be taken for college credit through SUNY Albany.

Prerequisite: 85% in Honors Math B OR successful completion of Pre-Calculus I & II OR 90% in Math B, 90% on the regents and teacher recommendation

AP CALCULUS A/B

344 **1 Credit**

Students enrolled in this course will be expected to take the Advanced Placement examination in May. College credit may be awarded to students who pass this exam. Topics to be studied are: applications of differentiation, the definite integral, methods of integration and transcendental functions.

Prerequisite: A final average of at least 85% in Pre-Calculus H

AP STATISTICS

345 **1 Credit**

Students enrolled in this course will be expected to take the Advanced Placement Statistics exam in May. College credit may be awarded to students who pass this exam. The topics in this course will include exploring data, planning a study, anticipating patterns, and statistical inference.

Prerequisite: Completion of Honors Math B or at least 85% average in Math B

INTRODUCTION TO PROGRAMMING IN QBASIC

Semester 1

348 **.5 Credit**

This is an elective course for students in grades 10, 11 and 12. It is designed to introduce students to computer programming in the QBASIC language. Course will include a brief history of computers and computer science. The main thrust of the course is to familiarize students with techniques of programming. It will concentrate on writing programs that will allow students to solve everyday problems. It will cover data structures such as numerical variables, sting variables and arrays.

Prerequisite: Successful completion of at least two years of mathematics.

COMPUTER PROGRAMMING IN QBASIC

Semester 2

349 **.5 Credit**

Students will work with static and dynamic data structures. Concentration of the course is on array manipulation, sorting algorithms, computer graphics and dynamic memory allocation and linked lists. The course will also include graphic representation of polynomial and transcendental functions.

Prerequisite: Successful completion of Introduction to Computer Programming in QBASIC

SAT-PREP - MATHEMATICS

Semester 1

MATSAT **.25 Credit**

This is an elective course designed to prepare students for the math section of the SAT exam. Students should be taking the SAT in December and/or January. The course meets every other day for one semester.

Prerequisite: Successful completion of at least two years of mathematics.

SAT-PREP - MATHEMATICS

Semester 2

MATSAT2 **.25 Credit**

This is an elective course designed to prepare students for the math section of the SAT exam. Students should be taking the SAT in May and/or June. The course meets every other day for one semester.

Prerequisite: Successful completion of at least two years of mathematics.

MUSIC

FRESHMAN BAND

660 **1 Credit**

Freshman Band is open to all ninth-grade students who have achieved an adequate proficiency on a band instrument. This ensemble performs several times a year.

CONCERT BAND

661 **1 Credit**

Concert Band is open to all students in grades 10-12 who have achieved an adequate proficiency on a band instrument. This ensemble performs several times a year.

WIND ENSEMBLE

665 **1 Credit**

The most select of the school's three concert bands. This group performs mostly NYSSMA Level 6 literature.

Open to exceptionally talented musicians by audition.

FRESHMAN CHORUS

673 **1 Credit**

Freshman Chorus is open to ninth-grade students who have achieved an adequate proficiency on voice. This ensemble performs several times a year.

CHORUS 10-12

663 **1 Credit**

Chorus 10-12 is open to sophomores, juniors and seniors who have achieved adequate proficiency on voice. This ensemble performs several times a year.

CONCERT CHOIR

664 **1 Credit**

The most select of the school's three choruses. This group performs mostly NYSSMA Level 6 literature.

Open to exceptionally talented musicians by audition.

FRESHMAN ORCHESTRA

674 **1 Credit**

Freshman Orchestra is open to all ninth-grade students who have achieved an adequate proficiency on a string instrument. This ensemble performs several times a year.

ADVANCED GUITAR

657 **1 Credit**

Advanced Guitar is for students who have completed Comprehensive Musicianship and would like to further develop their guitar skills. The class will divide into smaller groups that will perform twice during the school year.

PHILHARMONIA ORCHESTRA

672 **1 Credit**

Philharmonia Orchestra is open to students in grades 10-12 who have achieved an adequate proficiency on a string instrument. This ensemble performs several times a year.

SYMPHONY ORCHESTRA

662 **1 Credit**

The most select of the school's three orchestras. This group performs mostly NYSSMA Level 6 literature.

Open to exceptionally talented musicians by audition.

MUSIC LESSONS

650 **.25 Credit**

Students are enrolled concurrently with a performing band, orchestra, or chorus class. Instruction is given in a group setting.

COMPREHENSIVE MUSICIANSHIP

658 **1 Credit**

The essentials of musical notation, theory and history will be explored using the guitar as a performance tool. All styles of music will be covered including popular, rock, jazz and classical music. This class meets the 1 credit of fine arts required for a Regents diploma.

AP MUSIC THEORY

656 **1 Credit**

This class will prepare students to take the Advanced Placement exam in the spring. Topics will include scales, chords, modes, ear training, sight singing, and four-part harmony.

Pre-requisite: Permission of instructor.

REV. 11/08

PHYSICAL EDUCATION

PHYSICAL EDUCATION

PHE 785 grade 9

PHE 780 grade 10

PHE 786 grades 11/12 **.5 Credit each year**

Physical Education aims to promote the optimum physical, mental, ethical and social development of our youth as contributing members of a democratic society. The aims are accomplished through a planned program of a broad range of physical education activities which contribute to enduring skills, interests and social adjustment.

INTRODUCTION TO DANCE

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 ballet, modern dance, jazz and contemporary dance.

ADVANCED DANCE

PHE 783 **.5 Credit**

This class is intended for all dance students wishing to improve their technical dance skills. Students do not need to already be at an advanced level; however they must be serious about improving their dance skills. Class will incorporate many of the same dance styles as the regular dance class, however it will move at a slightly faster pace.

Prerequisite: You must have taken dance in the previous academic year or have prior dance experience

HEALTH EDUCATION

HEALTH

HEA 781

.5 Credit

The course will be organized to include eleven (11) conceptual areas recommended by the New York State Education Department: 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.

HEALTH II

HEA 782

1 Credit

This course is a second level elective designed for students in Grades 11 and 12 to meet the .5 health credit and .5 of the 2 physical education credits required for graduation. Designed for students who plan on entering the health field, nutrition, nursing, medicine or athletic training. The class will meet 5 days per week for the entire school year, alternating between the classroom and the gymnasium. Along with the NYS requirements for health education, the fitness and healthy lifestyle components of the health curriculum will be put into practice. Students will set personal health and fitness goals and work towards achieving those goals throughout the school year.

Prerequisite: Teacher Recommendation

SCIENCE

EARTH SCIENCE 9

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.

EARTH SCIENCE A/B

203 A

1 Credit

204 B

1 Credit

Using single periods over a two-year time span, this course covers the same topics as the Earth Science 9R class. Smaller class size and more "one on one" interaction is a primary tool used to help students succeed at the regents level. **Prerequisite: Recommendation of GFMS**

Guidance Counselor or H.S. Department Chairperson

THE LIVING ENVIRONMENT (BIOLOGY)

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 diversity. A weekly laboratory program stressing individual work is a required part of this course and must be completed before the final examination.

Prerequisite: Successful completion of Regents Earth Science

THE LIVING ENVIRONMENT (BIOLOGY H)

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.

Prerequisite: A 90% or greater average in Earth Science and 90% or greater score on the Earth Science Regents Exam

CHEMISTRY

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, bonding, periodic table, mathematics of chemistry, kinetics and equilibrium, acid base theories and organic chemistry. Students enrolling in Regents Chemistry must have completed Algebra/Geometry.

Prerequisite: Successful completion of Algebra/Geometry, Earth Science and the Living Environment

CHEMISTRY H

211

1 Credit

This is a comprehensive and rigorous course for students who have previously demonstrated a high level of achievement in science. The final examination will be the New York State Regents (Chemistry) Physical Science Examination. All science majors or students who expect to take chemistry in college should take this course. Topics covered include matter and energy, atomic structure, bonding, periodic table, mathematics of chemistry, kinetics and equilibrium, acid base theories and organic chemistry. Students enrolling in Honors Chemistry must have completed Math A/B. Though not a requirement, the course will enable the students to take the SAT II in Chemistry. This course is also considered to be a precursor to AP Chemistry, though not a prerequisite for AP Chemistry.

Prerequisite: 90% or above average in both Biology and Biology Regents Exam and Teacher Recommendation

REGENTS PHYSICS

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.

Science Prerequisite: 1 credit in Earth Science, 1 credit in Biology

Math Prerequisite: Successful completion of Math Algebra/Geometry. Concurrent enrollment in Geometry is highly recommended.

AP PHYSICS B

215 **1 Credit**

This college level course is designed for the next generation of scientists and engineers. Pre-Med students would also choose this course. Topics covered include mechanics, electricity and magnetism, fluid mechanics, thermal physics, waves and optics and atomic and nuclear physics. This course ends with the AP Physics B Exam. Successful completion of this course and exam may result in college credit. Advanced algebra and trigonometry skills are required.

Mathematics Prerequisites: (a) successful completion of Pre-Calc H or (b) successful completion of Geometry with teacher recommendation or (c) Co-enrollment in AP Calculus

Science Prerequisites: Regents Physics with an 80 final average OR Successful completion of Chemistry Regents or Honors 80 final average and teacher recommendation.

AP BIOLOGY

205 **1 Credit**

The primary goal of this course is to provide experiences that stimulate biological research, thereby gaining an understanding of science from direct experience and related textbooks and periodicals. Students will study the major biological principles including growth, development, behavior, modern statistical methods used in evaluating experimental work, the modern concept of DNA, replication, and environmental problems and solutions. A review of the AP Biology examination will be provided.

Prerequisite: An 85% average in Regents Biology, 1 cr. in Regents Chemistry or approval from the department chairperson and the instructor.

AP CHEMISTRY

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.

Prerequisite: An 80% or higher average in Algebra and Regents Chemistry

ENVIRONMENTAL BIOLOGY

209 **.5 Credit**

Field Biology will concentrate on the collection and identification of specimens around the school grounds. The class will also study local streams and lakes for chemical

and biological content, collect soil and air samples, and be involved in class projects concerning the solution to local environmental problems.

Prerequisite: Regents Earth Science

ANIMAL BEHAVIOR

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.

Prerequisite: Regents Earth Science

OCEANOGRAPHY-ASTRONOMY

217 **1 Credit**

This course is designed to expose the student to major understandings in the areas of oceanography and astronomy. In order to fully understand his surrounding, one must understand the space. It is in the areas of space and the ocean that most of today's scientific research is conducted. Laboratory work of one period per week will be conducted during regular classroom time. Here students will be made aware, through various activities, of the total effect of astronomy and oceanography on their daily lives. Practical application of local value will be used.

Prerequisite: Regents Earth Science

SCIENCE RESEARCH CLASS

218 **1 Credit**

This three year program affords students the opportunity to participate in the community of scientific research as part of their high school experience. It develops research, communication and time management skills while drawing from the scientific capabilities among a broad spectrum of the student body. Students enrolled in the program accomplish the following: chose and explore a topic of interest from the physical, natural or social sciences using professional literature; prepare a plan for intended research; conduct original research under the supervision of a scientist or research mentor; formally present their research in local, state and national competitions for scholarships. Honors/College designation. Up to 12 college credits can be earned through SUNY Albany after completion of the sophomore year.

FORENSICS

222 **1 Credit**

This class is designed for students who chose not to take Regents or AP Sciences beyond Earth Science and The Living Environment (Biology). This course focuses on different methodologies used by crime scene and forensic investigators. To be successful, students should have completed the prerequisites 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. Mandatory final

projects will demonstrate understanding of material learned during the course.

Prerequisites: Algebra/Geometry, Earth Science, and The Living Environment (Biology).

Rev. 12/3/08

SOCIAL STUDIES

GLOBAL HISTORY & GEOGRAPHY I

112 **1 Credit**

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. This course satisfies the New York State requirement.

GLOBAL HISTORY & GEOGRAPHY II

122 **1 Credit**

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. This course satisfies the New York State requirement.

GLOBAL HISTORY & GEOGRAPHY III

121 **1 Credit**

Curriculum emphasis is identical to Regents class, however expectations, work load, and depth of analysis occurs to a greater degree. Pace of instruction and writing requirements are more rigorous. Student must exhibit strong reading and writing skills. Heavier emphasis on writing than regents course.

Prerequisite: Teacher recommendation required and mandated 90 grade point average in Global I. A 90 average does not guarantee entrance to course.

GLOBAL HISTORY & GEOGRAPHY I & II LAB

113 I **.5 credit**
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.

Prerequisite: Teacher recommendation

US HISTORY/ GOVERNMENT

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. This course satisfies the New York State requirement.

US HISTORY / GOVERNMENT LAB

134 **.5 Credit**

This class is designed to reinforce the skills that students will need to prepare for the U.S. History Regents exam. Students will work on strategies that include interpreting political cartoons, reading maps, charts and graphs, techniques for answering multiple choice questions, scaffolding questions and essays, interpreting the U.S. Constitution and Bill of Rights, identifying important individuals, Supreme Court cases and periods of U.S. History. This class will meet every other day.

AP AMERICAN HISTORY

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. Teacher recommendation is necessary to take this course. Independent research and out-of-class study are an integral requirement of this program. Students must be strong writers. Students recommended by their instructor take the Advanced Placement examination in American History, offered in the spring of each year. This course satisfies the New York State requirement for 11th grade. Since this is an Advanced Placement course this is even a step up from our honors classes.

Prerequisite: Teacher recommendation required and mandated along with the 90 grade point average in Global II. A 90 average does not guarantee entrance into the course.

ECONOMICS

143 **.5 Credit**

This course meets the NYS economics requirement for graduation. The course follows the NYSED guidelines and examines three areas: entrepreneurship, 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. This course satisfies the New York State requirement.

GOVERNMENT

144 **.5 Credit**

This course satisfies the New York State requirement for government. The course focuses on the role of citizen participation in our system of government. Students will explore the role of citizen participation in local, state and national governments.

LAW

150 . 5 Credit

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. This course will satisfy the New York State requirement for Participatory Government. Business law can also be used as a Law requirement for graduation.

AP U.S. GOVERNMENT & POLITICS - ECONOMICS.

141 1 Credit

US Government & Politics - Economics provides an analytical perspective on government and politics in the U.S. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs and ideas that constitute U.S. political reality.

Economic issues and theories will also be introduced into this course thus covering the economic portion of the needed requirement. Students will sit for the A.P. exam in US Government and Politics in May.

Prerequisite: Teacher recommendation required and mandated along with grade point average.

PSYCHOLOGY I-H

151 . 5 Credit

This course is quite similar to a college introductory course. Psychology I deals with topics such as, science of psychology, biological basis of behavior, sensation and perception, states of consciousness, learning, memory, cognition and language, and finally intelligence and mental abilities.

Prerequisite: This course is only open to Juniors & Seniors

PSYCHOLOGY II-H

152 . 5 Credit

This course is quite similar to a college introductory course. Psychology II is a follow up to Psychology I. Psychology II deals with topics such as motivation and emotion, life span development, personality, stress and health psychology, psychological disorders, therapies, social psychology.

Prerequisite: This course is only open to Juniors and Seniors. Student must have taken Psychology I

CHILD PSYCHOLOGY

153 . 5 Credit

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.

Must be taken prior to Psychology I & II but is not a prerequisite for Psychology I.

U.S. CIVIL WAR

157 . 5 Credit

This course acquaints the student with the causes, course and consequences of the U.S. Civil War. Special emphasis is placed on discussing slavery, the sectional crisis of the 1850's and the politics of the period. The military history of the Civil War is a main ingredient of the course. The results of the war, both the immediate, during reconstruction, and the long-range results culminating in the 1960's civil rights movement, will be discussed.

MODERN AMERICAN HISTORY WORLD WAR II TO PRESENT

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" (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.

NAZI GERMANY & HUMAN RIGHTS

159 . 5 Credit

The Objective is to explore human rights and moral issues through the study of Germany in the 1930's. Through articles, film and other sources, students will analyze the use and abuse of power, the roles and responsibilities of the individual, and the nature of democracy vs. fascism.

THE REVOLUTIONARY WAR: A LIVING HISTORY

160 . 5 Credit

This course will provide students with a "hands-on" learning experience of the American 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. Field trips may include the New Windsor Cantonment, Fort Montgomery, the Robinson House, West Point, Enoch Crosby's burial site.

Course is offered first to Freshman and Sophomores.

AP WORLD HISTORY

126 1 Credit

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 8000 BCE 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 stage. Teacher recommendation is necessary to take this course. Independent research and out-of-class study are an integral requirement of this program.

Prerequisite: Open to 12th graders only. Teacher recommendation required/mandated along with grade point average.

SPECIAL EDUCATION DEPARTMENT

RESOURCE

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.

BRIDGE PROGRAM

950

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 behavior needs. The goal is to successfully mainstream these students into a less restrictive academic environment within Carmel High School.

PACE A, B

976/977

The PACE program is a Special Education 1:12:1 class. The students are in grades 9-12 and are grouped according to ability levels rather than age or grade level. The program consists of an academic component which takes place at CHS and a vocational component that takes place at CHS, Putnam Industries, or BOCES (depending on grade level and IEP requirements). The students in the PACE Program will follow a course of study which makes them eligible for an IEP Diploma. Students will be instructed in the areas of English, Mathematics, Science, Social Studies, and Life Skills, and they will learn fundamental skills that will prepare them for the workforce after high school.

ENGLISH – SPECIAL ED.

ENGLISH 9/10

990 1 Credit

991 1 Credit

Our focus is on preparation for the Regents exam in the eleventh grade. The goals and objectives parallel the New York Standards for Regents English. This is a literature-based language arts program.

ENGLISH 11

992 1 Credit

Our focus is on preparation for the Regents exam. Goals and objectives parallel the New York Standards for Regents English. Students will read and interpret fiction and non-fiction 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

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

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 ED.

ALGEBRA EXTENDED 9

809 1 Credit

A course specifically designed for students who need to master their basic computational skills. Consists of the study of arithmetic processes as they relate to whole numbers, fractions and decimals. Particular attention will be paid to applications required by the New York State Integrated Algebra Regents exam. Students who successfully complete this course will move into Algebra Extended 10, where they will take the NYS Regents exam in June.

ALGEBRA EXTENDED 10

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 Regents.

MATH AND FINANCIAL APPLICATIONS

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. The course will also prepare students for the Math RCT if they did not pass the Algebra Regents exam with a 55% or higher.

SOCIAL STUDIES-SPECIAL ED.

GLOBAL HISTORY & GEOGRAPHY I

919 **1 Credit**

The first of a two year course, Global History I covers Latin America, Africa, Southern Asia, China and Japan. The course emphasizes the concepts of geography, change, economic systems, political systems, urbanization, culture and intellectual life, justice and human rights, movement of people and goods, belief systems, interdependence, diversity, nationalism, imperialism, and science and technology. Supplemental materials will be used to address individual learning styles and modalities. The course satisfies New York State requirements and will prepare students for the New York State Regents.

GLOBAL SEMINAR 9

901 **½ Credit**

This class will focus on reinforcing the vast amount of vocabulary and curriculum in 9th grade Global History as well as the skills needed for high school level Social Studies, such as thematic and DBQ essay writing. Students will also be taught strategies for approaching Regents type questions.

GLOBAL HISTORY & GEOGRAPHY II

939 **1 Credit**

Building upon the skills acquired in the freshman year, the Global History course will cover 1750 to the present. A multi-sensory approach will be used to emphasize the concepts of geography, economics, politics and government.

U.S. HISTORY/ GOVERNMENT

969 **1 Credit**

The social, political and economic achievements of US History are presented in a conceptual approach to our country's past. This course will emphasize the concepts of government, immigration, civil rights, agricultural development, industrial development and foreign policy. This course satisfies New York State requirements and will prepare students for the New York State Regents.

ECONOMICS/GOVERNMENT

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.

SCIENCE-SPECIAL ED.

EARTH SCIENCE A

892 **1 Credit**

EARTH SCIENCE B

893 **1 Credit**

These two courses parallel the state Regents syllabus in Earth Science, taught over a two-year period using single periods. Topics will include: Changes in the Earth's surface, weather systems, and Astronomy. The student will take the Earth Science Regents after completion of the second year of study.

LIFE SCIENCE

894 **1 Credit**

Topics included in this course are: the animal kingdom, ecosystem, maintenance of plants, nutrition and the human body. Students learn through hands on activities such as laboratory investigations and science projects. Smaller class size allows for more "one-to-one" interaction.

Prerequisite: Successful completion of Earth Science.

Rev.12/08

TECHNOLOGY

PRINCIPLES OF ENGINEERING (R/H)

732 **1 Credit**

This course has been designed for students interested in technology and/or studies in engineering. The course is an integration of college level, hands-on, lab-based, engineering type problems that apply principles of mathematics and physics. Project topics include electrical circuit design, electromechanical applications and computer control devices. (e.g. Robotics) **This course may be used as the third unit of credit in science or mathematics, but not both.** Students who elect this course will gain major insights into engineering concepts. In addition, the course will prepare students for the type of curriculum that will be

encountered at the college level.

Pre- or co-requisite: Physics

Recommended: Electricity and Electronics, Land Transportation, Technical Drawing.

COMPUTER ENGINEERING, PROBLEM SOLVING USING C++ COLLEGE LEVEL

730 **.5 Credit**

This college-level computer course is taught at Carmel High School. This course is designed for conscientious 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 senior year. Students

taking this course will have the opportunity to earn 3 college credits in computer engineering through Syracuse University. Carmel High School students working towards college credit through S.U. are also provided the benefit of discounted tuition. **This course may count as ½ of the third unit of credit in science or mathematics, but not both.** A second ½ credit Technology course is required to obtain a full unit of credit. Students interested in the fields of engineering, engineering technology, and computer programming should consider this course.

Prerequisite: Math A/B

Recommended: Principles of Engineering.

INTRODUCTION TO OBJECT ORIENTED SOFTWARE DESIGN COLLEGE LEVEL

731 .5 Credit

This course is a college-level computer programming course designed to follow the “Problem Solving Using C++” course. This course is recommended to students who have obtained a high-level of achievement in earlier C++ studies and wish to continue course work at a college level. Students may earn 3 college credits through Syracuse University upon successful completion of this course. **This course may count as ½ of the third unit of credit in science or mathematics, but not both.** A second ½ credit Technology course is required to obtain a full unit of credit. Students interested in the fields of engineering, engineering technology, and computer programming should consider this course.

Prerequisite: Math A/B, Problem Solving Using C++

Recommended: Principles of Engineering.

MANUFACTURING TECHNOLOGY

724 .5 Credit

725 .5 Credit

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. **This course may count as ½ of the third unit of credit in science or mathematics, but not both.** A second ½ credit Technology course is required to obtain a full unit of credit.

724 - Emphasizes wood

725 - Emphasizes metal

Prerequisite: World of Technology Recommended

HOME MAINTENANCE

729 .5 Credit

This course is designed for upper level students desiring experience in the various areas of home repair. The course covers plumbing, electricity, appliances, sheetrock repair, painting, tile work, and minor structural repair. Emphasis is placed on consumer concerns with apartment rentals and home ownership. **This course may count as ½ of the third unit of credit in science or mathematics, but not both.** A second ½ credit Technology course is required to obtain a full unit of credit. **Prerequisite: World of Technology Recommended**

COMMUNICATION SYSTEMS – MEDIA PRODUCTION Grades 10-12 Option: Marist College Course – Computer Skills and Information Literacy

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.

In addition, students may pursue the option to take the Marist College on-line course “Computer Skills and Information Literacy-CSIS103” during Semester II in conjunction with Communication Systems.

The Computer Skills and Information Literacy course through Marist is designed to help students refine their research skills while honing their computer literacy and communication skills through on-line discussion forums. This course is valuable for all college bound students wishing to improve their research skills.

****This option is designed for conscientious students who have obtained a high level of achievement in earlier studies and wish to be challenged with the rigor of taking an on-line college level course. Students may earn 3 college credits through Marist College upon successful completion of this course.**

It is recommended that students take one or more of the following courses prior to Communication Systems-Media Production: World of Technology (prerequisite), Journalism, Advertising Art. This course may be used as the third unit of credit in science or mathematics, but not both.

LAND TRANSPORTATION

728 .5 Credit

This class will explore several types of land transportation systems. Students will use hands-on project work to design, construct, and test various models (ex. race car, maglev, hovercraft airplanes) to explore designs and functions. Project work is designed to prepare students for local engineering competitions. **This course may count as ½ of the third unit of credit in science or mathematics, but not both.** A second ½ credit Technology course is required to obtain a full unit of credit. **Prerequisite: Electricity-Electronics Heavy emphasis on CAD.**

CONSTRUCTION TECHNOLOGY

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. **This course may count as ½ of the third unit of credit in science or mathematics, but not both.** A second ½ credit Technology course is required to obtain a full unit of credit.

Prerequisite: World of Technology recommended

ELECTRICITY/ELECTRONICS

719 . 5 Credit

This course is for students interested in exploring electricity and electronic principles. Lab work consists of hands-on problem solving experiments where students assemble and test an assortment of electrical devices. Studies include simple and complex circuit design, basic use of simple electrical components as well as complex electronic components. Computer simulations of circuit construction are also used to support instruction. This course is intended for students at or above the sophomore level. **This course may count as ½ of the third unit of credit in science or mathematics, but not both.** A second ½ credit Technology course is required to obtain a full unit of credit. **Prerequisite: World of Technology**

PRODUCTION TECHNOLOGY

720 . 5 Credit

This course provides a working knowledge of production systems in industry. Woodworking and metalworking are two areas offered to simulate industrial production systems. Each 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 advanced technical education. **This course may count as ½ of the third unit of credit in science or mathematics, but not both.** A second ½ credit Technology course is required to obtain a full unit of credit. **Prerequisite: World of Technology recommended**

TRANSPORTATION SYSTEMS

726 1 Credit

The Transportation Systems course is focused on exploring the fundamentals of the internal combustion engine. Students will disassemble and reassemble a single cylinder engine while studying all of the related mechanical systems. These studies are designed to lead the student toward the understanding of advanced automotive systems. Instruction will include skill development pertaining to tools and test equipment. This course is intended primarily for upperclassmen. **This course may be used as a third unit of credit in science or mathematics, but not both.** **Prerequisite: World of Technology**

THE WORLD OF TECHNOLOGY

734 1 Credit

The World of Technology is designed to enable students to apply concepts of mathematics and science through hands-on learning. Students explore their abilities at innovation and problem solving while working through a series of engineering type projects. Project work topics include structural design, electro mechanics and pneumatic control. Learning activities in this course will allow students to experience the engineering design process while developing team building and technical writing skills. This course is intended to serve as an introduction to the upper level technology courses. **This course may be used as a third unit of credit in science or mathematics, but not both.**

REV. 12/08

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.

Course descriptions are available on line at the BOCES website: www.pnwboces.org/techcenter/tech/index.htm.

A separate application must be submitted to the BOCES Tech Center for approval.

2009/2010 GRADUATION REQUIREMENTS

<u>SUBJECTS</u> <u>DESIGNATION</u>	<u>REGENTS DIPLOMA</u>	<u>ADVANCED</u> <u>REGENTS</u>
English	4	4
Social Studies	4	4
Mathematics	3	3
Science	3	3
Second Language**	1	3*
Health	.5	.5
Art or Music	1	1
Electives	3.5	1.5
Physical Education	2	2
TOTAL COURSES	22	22

REGENTS DIPLOMA

Required Examinations

English Language Arts
U.S. History and Government
Global History and Geography
One Math Exam
One Regents Science Exam

ADVANCED REGENTS DESIGNATION DIPLOMA

Required Examinations

English Language Arts
U.S. History and Government
Global History and Geography
Two Math Exams*
Two Science Exams – 1 Life Science & 1 Physical Science
Regents Foreign Language Exam*

* Class of 2010: Math A&B or; Math A and Algebra II/Trigonometry

* Class of 2011 & 2012: Math A & B or; Math A & Algebra II/Trigonometry or; Math A, Geometry, Algebra II or; Algebra, Geometry, Algebra II.

LOCAL DIPLOMA

Class of 2010: all students must pass 3 of the 5 regents exams with at least a 65 and the remaining 2 with at least a 55.

Class of 2011: all students must pass 4 of the 5 regents exams with at least a 65 and the remaining 1 with at least a 55.

Class of 2012 & Class of 2013: Local Diploma available only for students who are in a special education program. Those students must pass all 5 regents exams with a score of 55 or higher, or earn RCT credit.

HONORS DIPLOMA

The words “With Honor” may be added to a Regents or Regents with Advanced Designation diploma if a student has earned an average of at least 90 in the examinations required for the diploma. Average below 90% shall not be rounded up to 90%.

DIPLOMA OF EXCELLENCE

(A separate application is required and must be approved by the principal).

You now have the opportunity to earn the *Carmel High School Diploma of Excellence* upon graduation. This diploma will only be awarded to those students who fulfill the following requirements:

1. a minimum of 27 total credits earned.
2. a minimum of 300 hours of approved community service.
3. at least an 85 grade average throughout the four years of high school..

NON-DISCRIMINATION POLICY

The Carmel Central School District does not discriminate on the basis of race, color, national origin, sex or disability. Kathryn Rohe, the District’s Section 504 coordinator can be reached at (845) 878-2094, ext. 241 or at P.O. Box 296, South Street, Patterson, New York 12563. The District’s Title IX Coordinator, Mr. Andy Irvin, can be reached at the above number and address.

* **Students acquiring five units in Art, Music, Business, Technology or Vocational Education are exempt.**
(Please note, however, that Foreign Language is required by many colleges.)

** **Students who do not pass the language proficiency examination in Grade 8, must take 1 credit of foreign language at the high school.**

STUDENT COURSE SELECTION WORKSHEET

COUNSELOR: _____

Name: _____ Student # _____

Address: _____

Homeroom Teacher: _____ Grade: _____

Home Phone: _____

COURSE SELECTION (2009 – 2010)

English _____

Social Studies _____

Science _____

Math _____

Foreign Language _____

Phys. Ed. _____

Lunch _____

Electives _____

Student Signature: _____

Counselor Initials: _____

(rev 11/09)