

HAMMONTON HIGH SCHOOL

2008 - 2009

PROGRAM OF STUDIES

REQUIREMENTS FOR GRADUATION

A. In order to qualify for a state-endorsed diploma, a student must have completed the selected program of study appropriate to his/her needs and abilities and must have earned a minimum of 120 credits which include the required subjects listed:

1. **ENGLISH****Four Years (20 credits)**
Minimum of (5) credits to be taken in each of the first four years.
2. **UNITED STATES HISTORY****Two years (10 credits)**
3. **WORLD HISTORY**.....**One Year (5 credits)**
4. **MATHEMATICS****Three Years (15 credits)**
5. **SCIENCE****Three Years (15 credits)**
6. **PHYSICAL ED/HEALTH/DE****Four Years (20 credits)**
7. **VISUAL and PERFORMING ARTS**.....**One Year (5 credits)**
8. **WORLD LANGUAGE**.....**One Year (5 credits)**
9. **CAREER EDUCATION AND CONSUMER, FAMILY, AND LIFE SKILLS, OR VOCATIONAL-TECHNICAL EDUCATION**.....**One Year (5 credits)**
10. **SUCCESSFUL COMPLETION OF THE NEW JERSEY HIGH SCHOOL PROFICIENCY TEST (HSPA) IN MATH and LANGUAGE ARTS LITERACY**

HOMEROOM PLACEMENT

Students are placed in homeroom based upon the total number of credits earned. There are no exceptions.

Grade 10	At least twenty (20) credits
Grade 11	At least fifty (50) credits
Grade 12	At least eighty (80) credits
Graduation	120 appropriate credits

PREREQUISITE

The word, “Prerequisite,” is used in this Course Selection Guide to indicate a course or courses which are required to be **taken and passed**, unless otherwise noted, before the student can take that particular course.

SEMESTER COURSES

A limited number of semester (1/2 year) courses will be offered. A student earns 2 ½ credits for each semester course successfully completed. Two semester courses may be taken for 5 credits or a semester course and a study hall for 2 ½ credits.

B. **COLLEGE REQUIREMENTS:** Most 4 year colleges require a minimum of 16 academic units

1. **ENGLISH** **Four Years (4 units)**
2. **ALGEBRA 1 & 2 and GEOMETRY** **Three Years (3 units)**
3. **US HISTORY/WORLD HISTORY** **Three Years (3 units)**
4. **EARTH AND PHYSICAL SCIENCE, BIOLOGY, CHEMISTRY AND PHYSICS** **Three Years (3 units)**
Minimum of 2 years of lab science.
5. **GERMAN, ITALIAN, or SPANISH** **Two Years (2 units)**
Some colleges require at least 3 and possibly 4 years of world language.

C. **GENERAL RECOMMENDATIONS FOR ENTRANCE TO TWO YEAR COLLEGES**

Most two year colleges only require high school graduation. However, specific programs may require SAT scores and/or academic math and/or science.

ATHLETIC ELIGIBILITY-CREDITS NEEDED FOR:

First Semester		Second Semester
Grade 9	0	13.75
Grade 10	27.5	13.75
Grade 11	27.5	13.75
Grade 12	27.5	13.75

HONORS PROGRAM CRITERIA

Students presently enrolled in a high school honors class must receive at least a “B” average in the prerequisite honors class in order to remain in the honors program.

Students presently enrolled in a college prep class who receive below a “B” in any marking period or the final exam in a college prep prerequisite are not recommended for enrollment in an honors class. However, students who receive one “C” in a marking period or final exam in the college prep prerequisite class may have their parent(s)/guardian(s) request permission from the high school principal to enroll in an honors class.

This request must be in writing, and it must clearly describe the reasons for waiving the above listed criteria. The high school principal will review the written request, determine if a waiver should be granted, and respond, in writing, to the parent(s)/guardian(s).

HONORS PROGRAM CRITERIA – Eighth Graders Entering H.H.S.

In order to qualify for admission to a high school honors course, a student must receive a minimum “B” average for the year in the 8th grade prerequisite class. Listed below are the high school honors classes and the corresponding 8th grade prerequisites:

Honors English:	Enrichment English and Enrichment Reading English and Reading with Teacher Recommendation
Honors World History:	Social Studies and Teacher Recommendation
Honors Geometry:	Algebra
Honors Biology:	Advanced Science in addition to Algebra 1

ADVANCED PLACEMENT PROGRAM CRITERIA

Students presently enrolled in an AP class must receive at least a “B” average in the prerequisite AP class in order to remain in the AP program.

It is not recommended that students who receive below a “B” in any marking period or the final exam in a college prep or honors prerequisite class be enrolled in an AP class. However, students who receive one “C” in a marking period or final exam in the college prep or honors prerequisite class may have their parent(s)/guardian(s) request permission from the high school principal to enroll in an AP class.

This request must be in writing, and it must clearly describe the reasons for waiving the above listed criteria. The high school principal will review the written request, determine if a waiver should be granted, and respond, in writing, to the parent(s)/guardian(s).

COURSE OFFERINGS

ART

INTRODUCTION TO ART: (5 Credits) This is an introductory level course in 2D and 3D media. Students will learn to use the elements and principles of design, while being exposed to a variety of materials and techniques. Students will focus on skills in drawing, painting, and printmaking and a variety of other 2D art media for one half of the year. Students will focus on skills in sculpture and pottery in a variety of 3D art media in the other half of the course. This course is a prerequisite for intermediate and upper level course offerings.

Prerequisite: None

Weight: Regular - Grades 9-12

INTERMEDIATE 2-D ART: (5 Credits) This course is organized to continue to develop skills in observational drawing, painting techniques, design, creative thinking, and to introduce printmaking and technology in the fine arts. Various drawing and painting media will be studied in both realistic and abstract styles. Historical and contemporary styles will be explored in still life, figure, portrait, landscape and illustration. Experimental use of media will be presented as a means to foster individual artistic development.

Prerequisite: Introduction to Art

Weight: Regular – Grades 10-12

ADVANCED 2-D ART: (5 Credits) This course is organized to continue to develop advanced skills in observational drawing, painting techniques, design, creative thinking, printmaking and technology in the fine arts. Various drawing and painting media will be studied in realistic and major modern styles. Technical processes and themes will be based on Western and non-Western traditions. Historical and contemporary styles will be explored in still life, figure, portrait, landscape and illustration. Individual portfolio development and presentation will emphasize original individual expression. (This course can be taken from a second year at an enriched level).

Prerequisite: Intermediate 2D art or Drawing and Painting

Weight: Regular - Grades 11-12

INTERMEDIATE 3D ART: (5 Credits) This course continues the development of sculpture and pottery techniques with an emphasis on design and creative thinking. Students will learn how to create realistic works in addition to the other major styles of art. Ancient through contemporary techniques and styles will be explored. Students will use a wider variety of media and will be introduced to new techniques such as casting, carving, and wheel work in addition to learning how to create busts, chimineas, and wood sculptures.

Prerequisite: Introduction to Art

Weight: Regular - Grades 10-12

ADVANCED 3D ART: This course is organized to continue developing advanced skills in spatial perceptions, three-dimensional design, creative thinking, and technology in the fine arts. Various pottery and sculpture techniques will be studied in realistic and major Modern styles. Technical processes and themes will be based on Western and Non-Western traditions. Historical and contemporary styles will be explored in functional vessels, portraiture, abstraction, and sculpture methods. Individual portfolio development and presentation will emphasize original individual expression. (This course can be taken from a second year at an enriched level).

Prerequisite: Intermediate 3D Art, Advanced Pottery, or Advanced Sculpture

Weight: Regular – Grades 11-12

ADVANCED PLACEMENT ART HISTORY: This is a survey course to be approached as an introduction to the discipline. This course is designed chronologically to teach students about the history of art from ancient/prehistoric times through the 21st Century to present day contemporary art. This course is a preparation for the AP Art History Exam, and although most of the course will cover Western images, ideas, and thought processes, Non-Western cultures will also be examined. Emphasis will be placed on the student's ability to visually understand works of art,

how the history of the world has influenced the artists, and how the art works influence the world. Students will be able to appreciate works of art and thus develop personal aesthetic criteria.

BUSINESS

INTRODUCTION TO BUSINESS: (5 Credits) This course is designed to give the student an introduction into his/her role as a consumer. Subjects that are important to him/her, as a person, in a business-oriented society are covered in detail. These include: banking, credit, budget preparation, and the like.

Prerequisite: None

Weight: Regular - Grades 9-10

MONEY MANAGEMENT: (5 Credits) This course provides the student with an understanding of managing financial affairs in everyday, real life situations. The organization and operation of a small business is also included for those students exploring the possibility of some day owning and/or operating their own business. Budgeting, banking services, credit, insurance, housing, consumer problems, buying and selling in a small business, financing and marketing are some of the topics included in this course.

Prerequisite: None

Weight: Regular - Grades 10-12

COMPUTER APPLICATIONS: (5 Credits) This course reinforces keyboarding skills and teaches techniques in basic computer applications and the Internet. Students will create letters, reports, announcements, flyers, newsletters, and other projects incorporating graphics and design. Database, spreadsheet, and presentations software will also be introduced.

Prerequisite: None

Weight: Regular - Grades 9-12

ADVANCED COMPUTER APPLICATIONS: (5 Credits) This course is a continuation of the learning in Computer Applications and will include advanced word processing concepts and techniques for use in college and the workplace including desktop publishing, database, and use of the internet, basic multimedia hardware and software, and presentation software.

Prerequisite: Computer Applications

Weight: Regular - Grades 10-12

ACCOUNTING: (5 Credits) This course is designed for those students who desire a broader business background. This course will provide basic financial record keeping fundamentals needed for caring for a company's accounting records. Computerized accounting applications

will be utilized for journalizing and posting, preparing and analyzing financial statements, and buying and selling on credit.

Prerequisite: None

Weight: Regular - Grades 10-12 (Does not count as a math requirement)

ADVANCED ACCOUNTING: (5 Credits) This course is designed for those students who have successfully completed accounting and are interested in making accounting a career or continuing their academic development in accounting beyond high school. Advanced Accounting increases technical competency. It also acquaints students with methods in various business situations such as problems relating to sales and purchases, payroll records, accounts receivable, accounts payable, taxes and corporate and departmental accounting with increased emphasis on computerized accounting applications.

Prerequisite: Accounting

Weight: Regular - Grades 11-12 (Can be taken 2 times for credit)

BUSINESS LAW: (5 Credits) This course will introduce students to various aspects of business law to include the court system, criminal law, contracts, laws for minors, consumer law, rights as an employee and laws involving real estate and automobiles.

Prerequisite: None

Weight: Regular - Grades 11-12

CP ECONOMICS: (5 Credits) This course is primarily for those students who plan further education in the fields of business administration, law, economics, or political science. It will give them an understanding of the problems that beset nations in their struggle for economic survival. Inflation, unemployment, world trade, and geopolitics are some of the units that will be examined in detail.

Prerequisite: None

Weight: College Prep - Grades 11-12

SPORTS AND ENTERTAINMENT MARKETING: (5 Credits) This course will introduce students to individual marketing components and the important part that marketing plays in our economic system utilizing the specific environments of the sports and entertainment industries. Students will be provided an overview of major marketing topics such as the marketing mix, marketing functions, consumer behavior, marketing research and market segmentation as well as an overview of the sport and entertainment industry. The history of the industry to the major events, stadiums, theatres, equipment, merchandise, and athletes/performers will be discussed.

Prerequisite: None

Weight – Regular - Grades 11-12

ENGLISH

ENGLISH 1, 2, 3, and 4: (5 Credits) These required courses are designed specifically for non-college bound students. The courses continue to stress improvement in reading, speaking,

listening and writing skills. Instruction common to all classes includes vocabulary/spelling improvement, grammar, mechanics, literature, writing improvement, debates, and oral speeches.

Prerequisite: The appropriate level of English

Weight: Regular – Grades 9-12

CP ENGLISH 1: (5 Credits) This course is designed for those students planning to enter college. The course stresses the mastery of the mechanics of grammar, vocabulary development, composition, and oral presentations. The study of literature is presented in a multicultural approach. Requirements include a variety of writing assignments, four book reports and a research paper.

Prerequisite: None

Weight: College Prep

HONORS ENGLISH 1: (5 Credits) This course is restricted to college prep students who have been identified by the staff and administration, by tests and past performance, as being capable of succeeding on an advanced level of English. A greater demand is placed on additional readings, writings, debates and speeches with an emphasis on critical thinking skills. There are a greater number of required writing assignments which evolve from the multicultural approach to literature as well as 7 book reports and a research paper.

Prerequisite: Eighth Grade Accelerated English and Accelerated Reading

Weight: Honors

CP ENGLISH 2: (5 Credits) This course is designed for those students planning to enter college. The course stresses the mastery of the mechanics of grammar, vocabulary development, composition, and oral presentations. The study of American Literature is presented through reading, writing, speaking and listening skills. Requirements include a variety of writing assignments, four book reports and a research paper based on an American author.

Prerequisite: English 1

Weight: College Prep

HONORS ENGLISH 2: (5 Credits) This course is restricted to college prep students who have been identified by the staff and administration, by tests and past performance, as being capable of succeeding on an advanced level of English. A greater demand is placed on additional readings, writings, debates and speeches with an emphasis on critical thinking skills. There are a greater number of required writing assignments which evolve from the study of American literature as well as 7 book reports and a research paper based on an American author.

Prerequisite: Honors or CP English 1

Weight: Honors

CP ENGLISH 3: (5 Credits) This class is designed to meet the needs of the academic student going on to further education. Its focus is on the study of English literature and on writing literary analysis. Literary studies range from the Anglo-Saxon period to the Age of Rationalism. Shakespearian study focuses on the tragedy Macbeth. A research paper on some aspect of English literature is a requirement as well as three critical analyses on books by the same author.

Prerequisite: English 2
Weight: College Prep

HONORS ENGLISH 3: (5 Credits) This course is restricted to college prep students who have been identified by the staff and administration, by tests and past performance, as being capable of succeeding on an advanced level of English. A greater demand is placed on additional reading, writings, debates and speeches with an emphasis on critical thinking skills. There are a greater number of required writing assignments which evolve from the study of British Literature (440 A.D. - 1900 A.D.) as well as seven book reports and a research paper based on a British author.
Prerequisite: Honors or CP English 2
Weight: Honors

AP ENGLISH 3: (5 Credits) The AP class deals with various critical strategies in the understanding of literature. Students will be responsible for employing these strategies in literary essays based on interpretation of literature ranging from Shakespeare's Macbeth play to Virginia Woolf's To The Light House. The canon for this course involves the study of classics, contemporary literature, and multicultural selections. Students are expected to bring a high level of critical thinking to their approach both in class discussion and in written assignments. This means college credit may be earned through successful achievement as measured by the advanced placement test that students are required to take at the end of the year. Each college will determine its own criteria.
Prerequisite: Honors or CP English 2
Weight: Advanced Placement

CP ENGLISH 4: (5 Credits) This class is designed to meet the needs of the academic student going on to further education. Its focus is on the study of literature and composition. Literary studies range from the Romantic Age to contemporary times. Shakespearian study concerns the play Hamlet. Writings of literary analysis and a research paper based on a British novelist are required.
Prerequisite: English 3
Weight: College Prep

HONORS ENGLISH 4: (5 Credits) This course is restricted to college preparatory students who have been identified by the staff and administration, by tests and past performance, as being capable of functioning on an advanced level in English and who meet standardized honors course criteria. Students in this course will study such selections from World Literature as The Epic of Gilgamish, Genesis, the Iliad, the Aeneid, and Dante Alighieri's Divine Comedy. A research paper and six book reports are required.
Prerequisite: Honors or CP English 3
Weight: Honors

AP ENGLISH 4: (5 Credits) The AP class deals with various critical strategies in the understanding of literature. Students will be responsible for employing these strategies in literary

essays based on interpretation of literature ranging from Shakespeare's Hamlet to Toni Morrison's Beloved. The canon for this course involves the study of classics, contemporary literature, and multicultural selections. Students are expected to bring a high level of critical thinking to their approach both in class discussion and in written assignments. This means college credit may be earned through successful achievement as measured by the advanced placement test that students are required to take at the end of the year. Each college will determine its own criteria.

Prerequisite: AP Honors or CP English 3

Weight: Advanced Placement

HSPA ENGLISH 2: (2.5 Credits) This semester course is designed to help students gain the skills that are necessary for taking and passing the High School Proficiency Assessment in grade 11. Student enrollment in this course is based on a multiple measures approach that includes GEPA results, IDMS results, and report card grades.

CP JOURNALISM: (5 Credits) This course is designed to develop student concepts and skills required for journalism. The course stresses journalism ethics, news gathering, and writing for a variety of purposes and audiences. Mock press conferences will be required as an on-going activity for speech and news coverage. Students will be instrumental in generating the school newspaper and yearbook.

Prerequisite: Successful completion of AP, Honors, or CP English course of the previous year with a B average or higher

Weight: College Prep - Grades 10-12

CP PUBLIC SPEAKING: (Semester course - 2.5 Credits) This course is designed to develop critical thinking skills expressed through oral communication; exchanging ideas to an audience while incorporating elements of communication. Special emphasis will develop delivery and organizational skills of speeches, including a variety of purposes such as debate, inform, persuade, and entertain.

Prerequisite: Successful completion of AP, Honors, or CP English course of the previous year with a B average or higher

Weight: College Prep - Grades 10-12

CP CREATIVE WRITING: (Semester course - 2.5 Credits) This course is intended for students who want to further develop their creative writing skills. Students will be challenged to write numerous essays on a variety of topics emphasizing and encouraging the student's creative thinking skills.

Prerequisite: Successful completion of AP, Honors, or CP English course of the previous year with a B average or higher

Weight: College Prep - 10-12

ENGLISH LANGUAGE LEARNER (ELL): (5 Credits) -Level 1,2,3 - This course is intended for students who have little or no knowledge of the English language. It provides the students with a functional command of the English language. Emphasis is placed upon individual needs. This course counts as an English requirement.

Prerequisite: ELL Program Placement

Weight: Not used for rank – Grades 9-12

ENGLISH LANGUAGE LEARNER READING: (5 Credits) This course is intended for beginner students who need an additional support class learn the English language. This course does not count as an English requirement.

Prerequisite: ELL Program Placement

Weight: Not used for rank – Grades 9 - 12

WORLD LANGUAGE

CONVERSATIONAL SPANISH 1: (5 Credits) This course is designed for the non-college prep student. The emphasis of this introductory course to Spanish is oral communication in the target language, and the culture of the language and its people. Vocabulary will center on common everyday subjects such as family, time, dates, food, clothing, objects in the home, workplace, school, and travel.

Prerequisite: None

Weight: Regular - Grades 9-12

CP SPANISH 1: (5 Credits) An introduction to the language through grammar, vocabulary, short reading passages and pronunciation drills. First year students will learn to express themselves in basic conversational patterns. Students will be introduced to the Hispanic world through reading passages about the many Spanish speaking countries.

Prerequisite: None

Weight: College Prep - Grades 9-12

CP SPANISH 2: (5 Credits) Second year students continue their study of grammar and vocabulary, while emphasizing reading. The students begin to broaden their knowledge of the Hispanic world through reading and writing about other countries and customs of native Spanish speakers.

Prerequisite: CP Spanish 1

Weight: College Prep - Grades 10-12

CP SPANISH 3: (5 Credits) During the third year of study, students will complete their study of grammar. Greater emphasis is put on pronunciation, dialogue and composition work. Students continue to read about the Hispanic world in their textbook and through current articles and various books.

Prerequisite: CP Spanish 2

Weight: College Prep - Grades 11-12

CP SPANISH 4: (5 Credits) Speaking and listening skills are sharpened through class discussions and oral reports. Grammar is reviewed and expanded through reading. Reading passages are selected from contemporary magazines and various books. Because this course is conducted extensively in the target language, only students with a “C” or better average in Spanish III will be encouraged to take this course. Great emphasis is put on studying the culture, traditions, and reading contemporary literature.

Prerequisite: CP Spanish 3

Weight: College Prep - Grade 12

CP ITALIAN 1: (5 Credits) First year students will learn to converse with each other in basic Italian conversational patterns. Grammar study and vocabulary building will follow. Cultural study will center on Italian geography.

Prerequisite: None

Weight: College Prep - Grades 9-12

CP ITALIAN 2: (5 Credits) Students will continue to learn grammar and specific vocabulary. More emphasis will be placed on conversation and composition in Italian. Cultural studies will concern Italian history, politics, art and geography.

Prerequisite: CP Italian 1

Weight: College Prep - Grades 10-12

CP ITALIAN 3: (5 Credits) This course will begin with a review of the major grammatical points from Italian 1 and 2 with greater emphasis on speaking and writing. New vocabulary units will be introduced with focus on usage and pronunciation. The study of culture and customs will also continue throughout the course.

Prerequisite: CP Italian 2

Weight: College Prep - Grades 11-12

CP ITALIAN 4: (5 Credits) This course will provide a more intense study of grammar and conversation. Various forms of literature will also be covered. Additional topics of cultural interest will be reviewed during the year.

Prerequisite: CP Italian 3
Weight: College Prep - Grade 12

CP GERMAN 1: (5 Credits) German 1 introduces the student to the German language in its most basic forms. Students will learn to read, speak, write, and listen to simple German for a variety of practical, everyday situations and will become acquainted with the customs, traditions, history, and geography of the German-speaking countries.

Prerequisite: None
Weight: College Prep - Grades 9-12

CP GERMAN 2: (5 Credits) Students will build upon the skills acquired in German 1. Increased vocabulary and more complex grammar are introduced, and selected short stories are read. Greater emphasis will be placed on spoken and written forms of the language, as students begin to write brief compositions and role play situational dialogues.

Prerequisite: CP German 1
Weight: College Prep - Grades 10-12

CP GERMAN 3: (5 Credits) This course completes the study of German grammar while emphasizing contemporary German idiom. Oral and written expression will be refined further and vocabulary development will be stressed. The latter portion of the course will be devoted to increasing the student's fluency in the language.

Prerequisite: CP German 2
Weight: College Prep - Grades 11-12

CP GERMAN 4: (5 Credits) The goal of this course is further development and refinement of student ability and fluency in the German language. A variety of literary works from well-known German authors of the past and present are discussed. Familiarization with current events is stressed through viewing German news programs and reading German newspapers and magazines and use of the Internet. Students will be challenged to communicate entirely in German during class.

Prerequisite: CP German 3
Weight: College Prep - Grade 12

MATHEMATICS

ALGEBRA 1:(5 Credits) This course blends algebra with geometry, data analysis, discrete mathematics, and statistics. The teaching-learning model actively engages students in both guided and open-ended mathematical explorations that help them make sense of their experiences. This course helps students to also develop skills necessary to take the eleventh grade HSPA.

Prerequisite: None
Weight: Regular - Grades 9-10

CP ALGEBRA 1: (5 Credits) This course provides for the development of concepts and skills needed in a first course in college-prep mathematics. Skill areas include fundamental operations of real numbers and polynomials, evaluating expressions, solving and graphing of linear and quadratic equations and inequalities.

Prerequisite: None
Weight: College Prep - Grades 9-12

GEOMETRY: (5 Credits) This course teaches spatial and angle relationships and applies them to real-life situations. This course incorporates hands-on activities, cooperative learning opportunities, and exploratory exercises. This course helps students develop the necessary skills to be successful on the eleventh grade HSPA.

Prerequisite: Algebra 1
Weight: Regular - Grades 10-11

CP GEOMETRY: (5 Credits) This course is designed to develop student understanding of the basic structure of geometry as a mathematical system and its relationship to the natural world. The course emphasizes traditional Euclidean geometry. Much emphasis is placed on geometric properties, spatial relationships, angle relationships and proofs.

Prerequisite: Eighth Grade Algebra or CP Algebra 1
Weight: College Prep - Grades 9-12.

HONORS GEOMETRY: (5 Credits) This course is designed to develop student understanding of the basic structure of geometry as a mathematical system and its relationship to the natural world. The course is designed to give the advanced student the opportunity to study the topics of geometry at more depth and at a faster rate. Emphasis is placed on traditional Euclidean geometry and coordinate geometry, geometric properties, spatial relationships, angle relationships, deductive and inductive reasoning, and proofs.

Prerequisite: Eighth Grade Algebra or CP Algebra 1
Weight: Honors - Grades 9-12

ALGEBRA 2: (5 Credits) This course continues to develop the structure of algebraic concepts begun in General Algebra 1. It also includes the study of geometric concepts, development of graphing linear and quadratic relations, and functions. The use of a calculator as an integral part of the learning process will be stressed throughout the course. This course helps students to also develop skills necessary to take the eleventh grade HSPA.

Prerequisite: Geometry
Weight: Regular - Grades 11-12

CP ALGEBRA 2: (5 Credits) This course is a more in-depth study of mathematics begun in CP Algebra I. Extended concepts and their applications include irrational numbers, complex

numbers, and relations and functions including their graphical representations. The use of a graphing calculator is stressed throughout the course. A graphing calculator is required.

Prerequisite: Eighth Grade Algebra or CP Algebra 1

Weight: College Prep-Grades 10-12

HONORS ALGEBRA 2: (5 Credits) This course is designed to give the more advanced student the opportunity to study the topics in an Algebra II course at an accelerated and more in-depth level. Topics include quadratic equations, rational expressions, irrational and complex numbers, functions, and sequences and series. A graphing calculator is required.

Prerequisite: Eighth Grade Algebra or CP Algebra 1

Weight: Honors- Grades 10-12

CP DISCRETE MATH: (5 Credits) This course is designed for students who do not need calculus for college acceptance. It is divided into two sections including Probability and Statistics, and discrete mathematics. During the first semester students will study the mathematics of election theory, fair distribution, matrix computation, and graph theory and combinations. During the second semester, students will study more graph theory, recursive thinking, and the counting theory.

Prerequisite: Honors Algebra 2 or CP Algebra 2 (C average or higher)

Weight: College Prep - Grades 11-12

Prerequisite: Honors or CP Algebra 2

CP ADVANCED MATH: (5 Credits) This course is designed to meet the needs of the college bound math student who will be planning to take calculus. This course will include a thorough study of functions including trigonometric, exponential and logarithmic functions and their graphs. Conic sections are investigated. The use of a graphing calculator is stressed throughout the course. A graphing calculator is required. A B average is recommended in the prerequisites.

Prerequisite: Honors or CP Geometry **AND** Honors or CP Algebra 2

Weight: College Prep - Grades 11-12

HONORS ADVANCED MATH: (5 Credits) This course is designed to meet the needs of the college bound student who will be planning to take Honors Calculus in their senior year. This will be a rigorous curriculum dealing with advanced topics in analytical geometry, trigonometry, and the study of functions including transcendental functions and their graphs. The use of graphing calculators is stressed throughout the course. A graphing calculator is required.

Prerequisite: Honors or CP Geometry **AND** Honors or CP Algebra 2 **with honors criteria applying to both Geometry and Algebra 2**

Weight: Honors - Grades 11-12

CP CALCULUS: (5 Credits) CP Calculus is designed for the student who wishes to prepare for college mathematics. Basic analytic geometry concepts are reviewed and extended. The function

concept and operations and relations on functions are studied in detail. The concepts of differentiation and integration are studied. The use of a graphing calculator is stressed throughout the course. A graphing calculator is required.

Prerequisites: Honors or CP Advanced Math **with a recommended B average**

Weight: College Prep-Grade 12

HONORS CALCULUS: (5 Credits) Honors Calculus is offered to those students who have demonstrated superior math skills and are preparing for college mathematics. Emphasis is placed on differential and integral Calculus and their applications. The use of a graphing calculator is stressed throughout the course. A graphing calculator is required.

Prerequisite: Honors or CP Advanced Math

Weight: Honors-Grade 12

AP CALCULUS: (5 Credits) The AP Calculus course consists of a full college semester of study in calculus and related topics. The course is intended for students who have a thorough knowledge of college preparatory mathematics. Topics include functions and graphs, limits and continuity, differential and integral calculus. Students who take this course are expected to take the AP Exam and to seek college credit or placement, or both, from institutions of higher learning.

Prerequisite: Honors or CP Advanced Math

Weight: Advanced Placement-Grade 12

HSPA MATH 2: (2.5 Credits) This semester course is designed to help students gain the math skills that are necessary for taking and passing the High School Proficiency Assessment in grade 11. Student enrollment in this course is determined by a multiple measures approach that includes GEPA results, IDMS results, and report card grades.

Weight: Regular – Grade 10

SCIENCE

EARTH AND PHYSICAL SCIENCE: (5 Credits) This course is designed for the non-college preparatory student and will address topics found in everyday life in the areas of Earth Science and Physical Science.

Prerequisite: None

Weight: Regular – Grades 9-12

CP EARTH AND PHYSICAL SCIENCE: (5 Credits) This C.P. course will provide an introduction to the demands and expectations required of college prep. science student. It is designed to develop fundamental skills that are essential for the student to apply throughout the entire college prep. science program. Each semester is designed to enhance the student's

scientific knowledge, while establishing a solid foundation in chemistry and physics. This class requires reports based on laboratory work.

Prerequisite: CP Algebra 1 (May be taken concurrently)

Weight: College Prep

Grades 9 – 12

BIOLOGY: (5 Credits) Biology is the second year of the non-college preparatory level science sequence. Students will study topics found in everyday life in the area of Life Science.

Prerequisite: Earth and Physical Science

Weight: Regular – Grades 9 – 12

CP BIOLOGY: (5 Credits) C.P. Biology will offer traditional study of biological processes.

The units covered will include cells, genetics, evolution, microorganisms, animals, plants, and ecology. Students will be required to conduct laboratory exercises and write a formal laboratory reports.

Prerequisite: CP Earth and Physical Science

Weight: College Prep – Grades 9 – 12

HONORS BIOLOGY: (6 Credits) This course is designed for the advanced student who is interested in a traditional, comprehensive biology course. The class will be a fast paced, in-depth rigorous course. Independent research and project work will be emphasized. Topics will include Cellular Biology, Biochemistry, Genetics, Vertebrate and Invertebrate Zoology, Botany, Ecology, Anatomy and Physiology, Evolution and Classification. Accelerated students may elect this course in grade 9 when meeting the appropriate criteria.

Prerequisite: Eighth Grade Algebra 1 and CP Earth and Physical Science

Weight: Honors – Grades 9 – 12

PHYSICAL SCIENCE: (5 Credits) Physical Science is the third year of the non-college preparatory science sequence. Students will study topics found in everyday live in the areas of Chemistry and Physics.

Prerequisite: Earth and Physical Science and Biology

Weight: Regular – Grades 11 - 12

FORENSIC SCIENCE: (5 Credits) Forensic Science is a course that illustrates how science and technology affect various aspects of society. The main focus of the course is on techniques used in forensic science to solve crimes. Topics covered are crime scene evaluation, fingerprints, DNA analysis, toxicology, and serology.

Prerequisite: Two Years of Science.

Weight: Regular - Grades 11-12

CP MARINE BIOLOGY: (5 Credits) This course is an introductory marine biology course for students who are interested in possibly pursuing this area of study in college, or to just gain an understanding of the marine environment. This course will also be geared to any student who is

interested in oceanography, zoology, comparative anatomy, and ecology.

Prerequisite: Biology or CP Biology

Weight: College Prep Grades 10 - 12

CP CHEMISTRY: (5 Credits) Chemistry is the systematic study of what substances are composed of, how their properties are related to their composition, and how one substance interacts with another. The course includes the study of fundamental theories and principles involved in all chemical reactions developed through a series of lab experiences. Recommended C average or better in CP math courses, and CP Introduction to Chemistry and Physics

Prerequisite: CP Earth and Physical Science, CP Biology and 2 Years of CP Algebra or Honors Biology and 2 Years of CP Algebra (Second year of Algebra may be concurrent)

Weight: College Prep - Grades 10-12

HONORS CHEMISTRY: (6 Credits) This course is designed to give the more advanced student the opportunity to study the topics of chemistry, what they are composed of, how their properties are related to their composition, and how one substance interacts with another. Also covered are the fundamental theories and principles involved in all chemical reactions through a series of lab experiments.

Prerequisite: CP Earth and Physical Science, CP Biology and 2 Years of CP Algebra or Honors Biology and 2 Years of CP Algebra (Second year of Algebra may be concurrent)

Weight: College Prep - Grades 10-12

CP PHYSICS: (5 Credits) Physics deals with the motion of objects, forces, light, and electricity. The course has many labs. Math is a basic part of the course. This course is a college prep course and is highly recommended for anyone who has taken CP Chemistry and CP Biology and is interested in any science related field including nursing.

Prerequisite: Honors or CP Advanced Math (May be taken concurrently)

Weight: College Prep - Grades 11-12

HONORS PHYSICS: (6 Credits) Honors Physics is an introductory Physics course. It is rigorous with emphasis on problem-solving and applying concepts, both in class work and laboratory exercises. It is designed for students with strong aptitude and interest in science and math. Topics include Mechanics; Dynamics; Vectors; Work, Energy and Machines; Waves, Sound, Light and Optics; Electricity and Magnetism.

Prerequisite: Honors or CP Chemistry and Honors or CP Advanced Math (May be taken concurrently) Weight: Honors - Grades 11-12

AP BIOLOGY: (7 Credits) This course is designed to be the equivalent of an introductory course taken by biology majors during their first year of college. The course includes those topics regularly covered in introductory college biology courses appropriate for biology majors such as cell respiration, photosynthesis, genetics, evolution, ecology, and plant and animal structure and function. Students who take this course are expected to take the AP Exam and to seek college credit or placement, or both, from institutions of higher learning. The pace of this course will be

rapid and students will be required to complete work over the summer and during vacation times of the school year. Because of the scope of the material covered, class will meet one hour per day. **STUDENTS WHO ELECT THIS CLASS WILL BE SCHEDULED FOR AP BIOLOGY DURING LUNCH 15 MINUTES PER DAY.**

Prerequisite: Honors or CP Biology and Honors or CP Chemistry

Weight: Advanced Placement - Grades 10-12

AP CHEMISTRY: (7 Credits) The AP Chemistry course consists of a full academic year of work in Chemistry and related topics comparable to courses in colleges and universities. The course is intended for students who have a thorough knowledge of college preparatory chemistry. Topics include Structure of Matter; Kinetic Molecular Theory of Gases; Chemical Equilibrium; Chemical Kinetics and Thermodynamics. Students who take this course may elect to take the AP Exam and may apply for college credit based on the test results.

STUDENTS WHO ELECT THIS CLASS WILL BE SCHEDULED FOR AP CHEMISTRY DURING LUNCH 15 MINUTES PER DAY.

Prerequisite: Honors or CP Chemistry

Weight: Advanced Placement - Grades 11-12

AP PHYSICS: (7 Credits)

AP Physics is equivalent to a college-level Physics course and is designed for students with strong interest and ability in Physics and mathematics. It is rigorous, with emphasis on problem-solving and applying concepts, both in class work and laboratory exercises. The AP Physics "C" course is a calculus-based Physics, which differs from the standard algebra/trigonometry-based introductory Physics course. Topics include: Part 1--Mechanics: Linear, 2-Dimensional, and Rotational Motion, Forces, and Energy; Momentum, Oscillations, Gravitation, and Planetary Motion. Electricity and Magnetism topics will be covered as time permits. Students will take the AP Physics C exam in Mechanics, and may opt to take the AP Physics C exam in Electricity & Magnetism (these are 2 separate exams). Students can apply for college credit based in the AP exam results and lab work.

Prerequisite: Honors or CP Physics

Co-requisite: Calculus

Weight: Advanced Placement - Grades 11-12

CP CHEMISTRY 2: (5 Credits) CP Chemistry 2 will build on the foundations established in CP Chemistry. Special emphasis will be placed on specific topics in order to prepare students for a first-year college chemistry course. Chemistry 2 students will develop an understanding of chemical kinetics and equilibrium, thermodynamics, electrochemistry, oxidation-reduction, and organic chemistry.

Prerequisite: CP Chemistry

Weight: College Prep - Grades 11-12

CP HUMAN ANATOMY AND PHYSIOLOGY: (5 Credits) This course is a study of the dynamics of the human body in relation to structure and function. Each organ system will be discussed in relation to its contribution to the whole functioning organism as well as a basic survey of its pathologies.

Prerequisite: Two years of Science including Honors or CP Biology

Weight: College Prep - Grades 11-12

SOCIAL STUDIES

WORLD HISTORY: (5 Credits) This is a required course for all freshmen not enrolled in the college prep curriculum which fulfills the first year of the three year state history requirement. The course is designed to provide a basic knowledge of historical events on a global scale which have shaped and molded our present society including history, government, geography, cultures, arts, and humanities. The course will go beyond providing a foundation in western civilizations by including studies on such non western civilizations as China, Japan, India, Africa, South America and the like. There are a number of required readings, a multimedia research project, and a required book report.

Prerequisite: None

Weight: Regular - Grade 9

CP WORLD HISTORY: (5 Credits) This is a required course for all freshmen enrolled in the college prep curriculum and fulfills the first year of the three year history requirement. The course is designed to provide a basic knowledge of historical events on a global scale which have shaped and molded our present society including history, government, geography, cultures, arts, and humanities. The course will go beyond providing a foundation in western civilizations by including studies on such non western civilizations as China, Japan, India, Africa, South America and the like. There are a number of required readings, a multimedia research project, and a required book report.

Prerequisite: None

Weight: College Prep - Grade 9

HONORS WORLD HISTORY: (5 Credits) This course fulfills the first year of the three year state history requirement. The course will provide a knowledge of historical events from the dawn of civilization to modern times that have shaped and molded our present society. The course will provide a solid foundation in our western civilization roots as well as those great non-western civilizations that have done likewise. There are a number of required readings, a multimedia research project, 2 book reports and written abstracts required.

Prerequisite: None(Eighth graders need the recommendation of their social studies teacher.)
Weight: Honors - Grade 9

UNITED STATES HISTORY 1: (5 Credits) A required course for sophomores that meets their second year history requirement. The course surveys American History from the period of Indian settlements in America up to the Civil War and Reconstruction Period. There are a number of required readings, multimedia research project, a book report, and study of original historical documents related to the period.

Prerequisite: None
Weight: Regular - Grade 10

CP UNITED STATES HISTORY 1: (5 Credits) This is a recommended course for college bound sophomores and meets their second year history requirement. The course surveys American History from the period of Indian settlements in America up to the 1900's. There are a number of required readings, a multimedia research project, a book report and study of original historical documents related to the period.

Prerequisite: None
Weight: College Prep - Grade 10

HONORS UNITED STATES HISTORY 1: (5 Credits) This course meets the second year of the three year state history requirement. The course will provide an in-depth study of American History from the period of exploration up to the 1900's. There are a number of required readings, a multimedia research project, 2 book reports and written abstracts required.

Prerequisite: Honors or CP World History
Weight: Honors - Grade 10

UNITED STATES HISTORY 2: (5 Credits) This is a required course for juniors and meets their third year history requirement. The course surveys American history from the period of post war reconstruction up to and including the present administration. There are a number of required readings, a multimedia research project, a book report, and study of original historical documents related to the period.

Prerequisite: US History 1
Weight: Regular - Grade 11

CP UNITED STATES HISTORY 2: (5 Credits) This is a recommended course for college bound juniors and meets their third year history requirement. The course surveys American history from 1900 up to the present Clinton Administration. There are a number of required readings, a multimedia research paper, a book report, and study of original historical documents related to the period.

Prerequisite: US History 1
Weight: College Prep - Grade 11

HONORS UNITED STATES HISTORY 2: (5 Credits) This course meets the third year of the three year state history requirements. The course will provide an in-depth study of American History from the 1900's to the Clinton Administration. There are a number of required readings, a multimedia research project, 2 book reports and written abstracts required.

Prerequisite: Honors or CP U.S. History 1

Weight: Honors - Grade 11

AP UNITED STATES HISTORY: (5 Credits) This course will provide a comprehensive survey of the social, political, economic, and intellectual history of the United States from the post Civil War period of industrialization through modern times. Included will be a review of United States 1 material and an emphasis on preparation for the AP United States History test. College credit may be earned through successful achievement as measured by the advanced placement test that students are required to take at the end of the school year.

Prerequisite: Honors World History and Honors United States History 1

Weight: Advanced Placement - Grades 11-12

AP EUROPEAN HISTORY: (5 Credits) This course is designed to focus on the social, political, cultural, economic and intellectual history of western civilization. Students will be required to take the AP European History test in May, do extensive independent readings, writings and research.

Prerequisite: Honors U.S. History 1 and Honors U.S. History 2

Weight: Advanced Placement - Grade 12

CP SOCIOLOGY: (5 Credits) This course is designed for students seeking knowledge of the science of human society and of social relationships, organization, and change, including beliefs, values, etc., of societal groups and the processes governing social phenomena.

Prerequisite: None

Weight: College Prep - Grades 11-12

PSYCHOLOGY

CP PSYCHOLOGY: (5 Credits) This course is designed to study human behavior in today's society. Students will better understand their own behavior and the effects such behavior has upon their peers. Topics such as study habits, family life, sexual development, assuming adult roles and mental health problems will be discussed.

Prerequisite: B average in preceding CP or Honors English
Weight: College Prep - Grades 11-12

AP PSYCHOLOGY: (5 Credits) The AP Psychology course is designed to introduce the student to the systematic and scientific study of behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn the methods psychologists use in their science and practice.

Prerequisites: AP criteria in the preceding English 2, Social Studies, and Biology classes.
Weight – Advanced Placement – Grades 11 - 12

HSPA SKILLS (SRA)

HSPA ENGLISH 4: (5 Credits) This course is required of any student who fails to pass the writing and reading components of the New Jersey High School Proficiency Assessment. A thorough review of the content of the HSPA reading and writing skills including test taking strategies are incorporated in this course.

Prerequisite: Students not meeting HSPA requirements
Weight: Regular - Grades 9-12 (Counts toward English requirement)

HSPA MATH 4: (5 Credits) This course is required of any student who fails to pass the mathematics component of the New Jersey High School Proficiency Assessment.. Emphasis of the course is placed on the five cluster areas: numerical operations, measurement & geometry, patterns and functions, data analysis and fundamentals of algebra. Mathematical applications will also be provided.

Prerequisite: Students not meeting HSPA requirements
Weight: Regular - Grade 12 (Counts toward math requirement)

MUSIC

INTRODUCTION TO INSTRUMENTAL MUSIC- (5 Credits) This is an elective for new instrumental music students who wish to study a woodwind, brass, or percussion instrument and for students who have previously played those instruments but need further formal instruction. Basic musicianship, including music reading and tonal production will be emphasized. Students must supply their own instrument (rentals are available).

Prerequisite: None
Weight: Regular – Grades 9-12

CHORUS: (5 Credits) Chorus is an elective open to all students, regardless of previous experience. The musical experience will include popular music and the music of Broadway. Participation in several performances throughout the year is required. (Can be taken 4 times for credit)

Prerequisite: None

Weight: Regular - Grades 9-12

CONCERT CHOIR: (5 Credits) Concert Choir is an elective open to all students, regardless of previous experience. The choral experience will include singing concerts throughout the year as well as participation in choral festivals. Some after school rehearsals are required.

Prerequisite: None

Weight: Regular - Grades 9-12 (Can be taken 4 times for credit)

SELECT CHOIR: (5 Credits) This course is an auditioned group open to any student in grades 10-12. Students must qualify through an audition by the choral director. The choral experience will include advanced level choral music. Participation in several performances throughout the year is required. Can be taken 4 times for credit.

Prerequisite: Audition

Weight: Regular - Grades 9-12

BAND: (5 Credits) Band is an elective for instrumental students. Standard band literature and orchestra transcriptions and multicultural music are rehearsed and performed. Theory, harmony, form and music history are included and approached through the music. Students are required to attend concerts and public performances as part of their grade.

Prerequisite: For instrumental students only

Weight: Regular - Grades 9-12 (Can be taken 4 times for credit)

MUSIC THEORY 1: (5 Credits) Music Theory 1 will begin with a study of the fundamentals of music and progress through a study of harmonic structure from 1600 to today. Intense analysis of the individual structural elements of rhythm, harmony, melody, and form, along with ear training exercises, will comprise much of the content.

Prerequisite: None

Weight: Regular - Grades 9-12

PHYSICAL EDUCATION & HEALTH/DRIVER ED.

CARE AND PREVENTION OF ATHLETIC INJURIES: (5 Credits) This course is designed to expose students to the field of Athletic Training and identify its' relationship in the field of medicine. Students will learn basic anatomy & physiology, acute wound care techniques and prophylactic taping and bracing. Students will also learn injury evaluation tests, acute injury care and the role of therapeutic exercise and modalities for injury treatment. Students will be expected to successfully demonstrate the techniques under the supervision of the Teacher/Athletic Trainer.

Weight: Not used for rank

PHYSICAL EDUCATION & HEALTH: (5 Credits) Provides instruction in physical activities

in a wide variety of team and individual sports. Health is offered to improve the knowledge, practices, and attitudes of individuals for their mental and personal well-being. Family life consideration is part of this course. Students who come out of PE for a lab during one period per week will receive four credits. (HE-Grades 9,11, and 12) PE-Grades 9,10,11,12)

Weight: Not used for rank

DRIVER EDUCATION: is taught in 10th grade and gives students the theory of driving laws and the rules of the road in order that they may develop safe driving habits. In addition, safety procedures regarding vehicle transportation is covered in detail.

Weight: Not used for rank – Grade 10

FAMILY AND CONSUMER SCIENCE

FOODS AND NUTRITION: (5 Credits) This course is designed to educate students in the preparation of food and to convey the importance of nutrition. It will promote the development of basic meal planning and preparation skills both at home and in the food service and hospitality industries. Students will learn about the basic food groups and the food pyramid. Safety will be emphasized in the area of sanitation and safety practices.

Prerequisite: None

Weight: Regular

Grades: 9-12

ADVANCED FOODS AND NUTRITION: (5 Credits) This course is designed to further introduce the study of nutrition as it relates to the planning and preparation of meals. FDA standards relating to the food groups and food pyramid are integrated with laboratory experiences to challenge the students to utilize the food concepts they have learned. Other areas of culinary studies will include international and regional foods of the United States as well as local agricultural foods.

Prerequisite: Foods and Nutrition

Weight: Regular

Grades: 10-12

TECHNOLOGY

GENERAL TECHNOLOGY 1: (5 Credits) This course is designed to acquaint students with all areas of technology education offered at the high school level. Units of study include: Invention/Innovation, Entrepreneurship, Production Systems, Robotics, Transportation Systems, Structural Systems, Biotechnology, Information Systems and Power and Energy. The course utilizes a hands-on design and problem solving approach as a major part of the learning experience to solve real-world problems. Taking on the role of researcher, designer, builder, testing, evaluator, and presenter, gives students a better understanding of future career opportunities.

Prerequisite: None

Weight: Regular - Grades 9-12

TV/MEDIA 1: (5 Credits) Television/Media 1 will introduce students to the world of electronic communications. It will focus on both the technical and creative skills used in radio, television, and film production. Students will have the opportunity for hands-on learning with studio video cameras, lighting, special effects devices, and audio recorders/mixers. A wide range of experiences will be provided in speaking, script writing, editing, computer graphics and on-camera presence and delivery.

Prerequisite: Grade of C or better in previous year's English course

Weight: Regular - Grades 9-12

TV/MEDIA 2: (5 Credits) – Television/Media 2 is designed as a follow-up course building on the basic knowledge gained in Television/Media 1. This course will focus on both the technical and creative skills used in producing short films, and broadcast-quality productions promoting various school district programs. A wide range of hands-on learning with field/studio video shooting, script writing, advanced editing techniques, computer graphics, and on-camera performance will be provided.

Prerequisite: TV/Media 1

Weight: Regular – Grades 10-12

MULTIMEDIA: (5 Credits) - This course provides an overview of how interactive multimedia is developed, distributed, and how it explores the latest developments in the field of multimedia. Students will examine the hardware and software involved and will explore issues and design considerations. The multimedia industry and careers involving multimedia will also be examined. Students will get extensive hands-on experience in using Macintosh and PC computers, digital video, digital cameras, scanners, the World Wide Web and authoring software. The emphasis will be on using these tools for learning and communication. The class will discuss the impacts that these new technologies will have on the classroom, workplace and home.

Prerequisites: Graphic Design 2, or Advanced Computer Applications or TV Media 2

Weight: Regular – Grades 11- 12

WOODWORKING TECHNOLOGY: (5 Credits) Provides a learning experience for students to use a variety of tools to make useful items from wood and other materials. Typical projects are clocks, lamps, jewelry, shelves, games, electronics kits, models, and designing home workshops. Plans are original or taken from books. Students may supplement their project work with technology activities that are interrelated with other classes.

Prerequisite: None

Weight: Regular - Grades 9-12

ADV. WOODWORKING TECHNOLOGY: (5 Credits) Provides continued experiences for students to create more challenging projects using the skills acquired in the prerequisite course. Project work time is greatly increased for students who possess the knowledge provided in the first year course. This class may be taken twice for credit.

Prerequisite: Woodworking
Weight: Regular - Grades 10 - 12 (Can be taken 2 times for credit)

INTRODUCTION TO COMPUTER DRAFTING AND DESIGN: (5 Credits) Computer Drafting Technology is an exploratory course offering the student an opportunity to gain knowledge in mechanical drawing. The student will become proficient in graphic communication and technical drawing while using the CAD software. Geometric construction of various shapes and visualization techniques will be an integral part of the course. Utilizing the CAD software, the student will become proficient in drawing orthographic projection, dimensioning detailed drawings and adding proper notations. Three-dimensional drawings will also be explored. This course is excellent for students seeking to further their education in engineering and technical careers.

Prerequisite: None
Weight: Regular - Grades 9-12

ADVANCED COMPUTER DRAFTING AND DESIGN: (5 Credits) This course allows the students to further develop their skills in mechanical drawing. Visualization and design skills using the CAD software will be an integral part of the course. In addition, various assembly drawings will be developed such as detailed parts assembly and general assembly. Solid modeling on CAD as well as Computer Integrated Manufacturing will be explored. Careers and college choices will be discussed throughout the course. This course is a must for any student interested in the engineering or architectural fields.

Prerequisite: Computer Drafting Technology
Weight: Regular - Grades 10-12

ARCHITECTURAL DRAFTING AND DESIGN TECHNOLOGY: (5 Credits) This course will give the students a working knowledge of planning, designing, building and landscaping homes through the use of computer drafting. Students will be able to make computer house plans, read architectural blueprints, and understand some of the problems connected with designing and engineering house plans. The students will construct a three-dimensional model of a home as well as physically model a home to scale. This course is valuable to those students who are interested in engineering, design, architecture, carpentry, masonry, electrical wiring, plumbing, landscaping, as well as interior design.

Prerequisite: Advanced Computer Drafting Technology
Weight: Regular - Grades 11-12

GRAPHIC DESIGN 1: (5 Credits) Graphic Design is an introductory level course in design, illustration, printing, digital photography, and digital imaging. Students will utilize Adobe PhotoShop, Adobe Illustrator, and Macromedia Freehand software to design and develop digital

prints. This course will provide students with the knowledge of how to use current technology to design and create digital images for print and media.

Prerequisite: None

Weight: Regular – Grades 9-12

GRAPHIC DESIGN 2: (5 Credits) This course will allow students to further their knowledge and develop an understanding of color and composition, design, typography, and drawing. Magazines, DVD covers, corporate stationery, television graphics, billboards-all are composed of images, design, and printed words that work together to sell products or services or convey ideas. This is the fundamental concept of advanced graphic design, on which some of today's most dynamic fields, advertising, publishing, television, and visual communications, are based.

Prerequisite: Graphic Design 1

Weight: Regular – Grades 10-12

ATLANTIC VOCATIONAL TECHNICAL SCHOOL PROGRAM

VOCATIONAL SCHOOL PROGRAM: (15 or 20 Credits) Atlantic County Vocational Technical School offers various areas in which students specialize in order to learn vocations. For programs offered and other details regarding the vocational school, see your guidance counselor.

Prerequisite: See Counselor for Specific Details

Weight: Regular - Grades 11-12 and S.E. students in 9-12

C.B.E./C.I.E.

COOPERATIVE BUSINESS EDUCATION: (15 Credits) The cooperative business education program provides an opportunity for on-the-job experience in an office or business setting for eligible students on a part-time basis. Interested students who have specific and definite occupational intentions, attend school part time and work for hourly wages part time. The aim of this program is to give the student a head start in the world of work through experiences in school and on the job.

Prerequisite: See Counselor for Specific Details

Weight: Regular - Grades 11-12 and Special Education students 16 years or older (Can be taken more than once for credit)

COOPERATIVE INDUSTRIAL EDUCATION: (15 Credits) The cooperative industrial education program provides an opportunity for on-the-job work experience for eligible students on a part-time basis. Interested students, who have specific and definite occupational intentions, attend school part-time and work for standard wages during the other periods of time. The basic aim of this program is to give the student a head start in the world of work through experiences in school and on the job.

Prerequisite: See Counselor for Specific Details

Weight: Regular - Grades 11-12 and Special Education students 16 years or older (Can be

taken more than once for credit)