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MINIMUM CREDIT AND COURSE REQUIREMENTS

To receive a New Jersey State endorsed diploma from Holmdel High School, each student must earn a *minimum* of 120 credits. In addition, students must meet the minimum standard on each section of the High School Proficiency Assessment (HSPA) or its equivalent. Minimum passing scores are set by the New Jersey State Department of Education.

Each year all students must be *enrolled* in courses equivalent to 35 credits. With the approval of the school counselor and/or an administrator, students in grades 10, 11, or 12 may carry a maximum of 42 credits.

<i>SUBJECT AREA</i>	<i>NEW JERSEY GRADUATION REQUIREMENTS</i>	<i>MINIMUM COLLEGE REQUIREMENTS</i>	<i>COMMENTS</i> <i>A FULL YEAR COURSE (5 OR 6 CREDITS) EQUALS ONE CARNEGIE (ACADEMIC) UNIT</i>
English	4 years <i>(20 credits)</i>	4 years	
Mathematics	3 years <i>(15 credits)</i>	3 years Algebra 1 Geometry Algebra 2	4 years of mathematics is preferred and may be required for entrance into competitive colleges and/or certain majors, including engineering, science and architecture.
Science	3 years <i>(15 credits)</i>	2-3 years Lab Sciences	Most colleges/universities require biology and chemistry. Four years of science is preferred and may be required for entrance into competitive colleges. Physics may be required for certain majors, including engineering, science, and architecture.
Social Science	3 years <i>(15 credits)</i> World Civilization U.S. History 1 U.S. History 2	3-4 years	
World Language	1 year <i>(5 credits)</i>	2 years	Most colleges require a 2-year minimum of a single world language. Three or more years of study is recommended for admission to competitive colleges.
Health and Physical Education	4 years <i>(20 credits)</i>		
Visual or Performing Arts	1 year <i>(5 credits)</i>		
Technology Literacy, Career Education and Life Skills or Voc-Tech Ed	1 year <i>(5 credits)</i>		
*Financial and Economic Literacy (*starting with the Class of 2014)	1 semester <i>(2.5 credits)</i>		This must be the Financial Literacy and Economics course found on Page 5.
Electives	<i>(credits will vary)</i>		These may be academic and non-academic courses.

Placement Criteria and Review Process

Preliminary placement in core courses is based upon students' cumulative grades **at the time of registration**. Students who initially meet the published placement criteria but whose final grades fall below the Program of Studies published prerequisites **will be removed** from the classes for which they have been scheduled and placed appropriately during the summer months.

Students **not yet enrolled** in an Honors or Advanced Placement program must meet the published criteria in order to be eligible for inclusion in that program. In the event the student's cumulative average does not meet the published criteria by the end of the third marking period, the student may **request a departmental review**. Students requesting departmental reviews must first have met or exceeded the published criteria in at least two of the marking periods. Forms will be available in the Guidance Office.

Students **currently enrolled** in an Honors or Advanced Placement course must maintain the published criteria in order to remain in an Honors or Advanced Placement program. Those students whose cumulative average falls below the published criteria by the end of the third marking period will **automatically be granted a departmental review** to determine their eligibility for continued study in the Honors or Advanced Placement program.

The departmental review process is **collaborative** in nature, and is attended by the full department, including those faculty members who have first-hand knowledge of the student. Additionally, district curriculum supervisors and a building administrator will be present at each review.

Decisions reached during the departmental review process are final. All students who requested a departmental review will receive written notice of the review decision.

GRADING SYSTEM:

<u>Grade</u>	<u>Numerical Equivalent</u>
A	90-100
B	80-89
C	70-79
D	60-69
F	Below 59

CALCULATION OF FINAL GRADE:

<i>Full-Year Course</i>	
1 st Marking Period	= 22.5%
2 nd Marking Period	= 22.5%
Mid-Term Exam	= 5%
3 rd Marking Period	= 22.5%
4 th Marking Period	= 22.5%
Final Exam	= 5%
Final Grade	= 100%

<i>Semester Course</i>	
1 st or 3 rd Marking Period	= 45%
2 nd or 4 th Marking Period	= 45%
Final Exam	= 10%
Final Grade	= 100%

SCHEDULE ADJUSTMENTS

AT TIME OF REGISTRATION:

Please take the time to choose courses that are the best match for you. Take into account your interests, your abilities, and your goals. Gather information from your teachers, parents, and your counselor as you build your academic program for next year. Careful selections at the time of registration will mean fewer problems once the 2010-2011 school year begins.

PRIOR TO SCHOOL YEAR:

If it becomes necessary to make a schedule adjustment prior to the beginning of the 2010-2011 school year, students will have various opportunities in the summer months to do so. Valid reasons for which a student may request a change of class include:

- An error in placement; prerequisite(s) met; prerequisite(s) not met; summer school attendance
- An error or omission in data entry
- Meeting a graduation requirement (seniors)

AFTER SCHOOL YEAR BEGINS:

If, after school begins, it is determined that a student's placement in a **full-year** class is not appropriate, a transfer to a lower level class may be necessary. Such an adjustment must take place by **November 30, 2010**. In those cases, the grade will be prorated to reflect the amount of time spent in each class. Only the name of the new class will appear on the transcript. If there is not a class or seat available to accommodate the transfer, the student must remain in the class until the second semester; at which time they may transfer into a semester course. In the aforementioned situation, the student would receive a WP or WF on their transcript for the dropped course.

Please Note: Effective 2010-2011 school year, no other schedule adjustments will be permitted once the school year begins, so please choose wisely during registration.

ALL COURSE CHANGES ARE SUBJECT TO SEAT AVAILABILITY.

COURSE REQUIREMENTS:

Summer assignments are required for the following courses:

English:	Mathematics:	Science:	Social Science:
English 1, 2, 3, 4	Honors Algebra 2	Honors Biology	AP Psychology
H English 1, 2, 3, 4	Honors Precalculus	AP Biology	AP USH II
AP English	AP Calculus BC	AP Chemistry	

BUSINESS EDUCATION

(Courses below fulfill the graduation requirement for Tech Literacy, Career Ed, and Life Skills or Vocational/Technical Education)

802 Advertising - Presents the history, media, research, and budget creation of advertisements through hands on projects. Newspaper, magazine, direct mail, radio, TV, billboards are the media to be utilized. Students will complete an advertising campaign by designing the product, advertising in appropriate media, and following through with a cost analysis report. Different careers will be explored through guest speakers and student reports.

Prerequisite: None

Length: Semester

Credits: 2.5

803 Business Law - Emphasizes court functions, business and consumer crimes, criminal law, torts, student rights, and employment. The history of law and how it affects us will be covered. Government agencies that protect consumers will be discussed. Through a mock-trial, students will experience procedures of a court, prepare as lawyers, and act roles in this simulation. Several guest speakers will give added insight on topic and career opportunities.

Prerequisite: None

Length: Semester

Credits: 2.5

804 Accounting 1 - An introduction to accounting emphasizing how general purpose financial statements communicate information about a business' performance. Topics in the first semester include: documentation, journalizing transactions, ledger posts, bank reconciliations, worksheets, financial statements, and closing entries for sole proprietorship. The balance of the course concentrates on financial aspects of the corporation, which comprises the five special journals (sales, cash receipts, purchases, payments, and general), adjustments, formal financial statements, and the steps necessary to close accounts. A six week, hands-on simulation will be completed.

Prerequisite: None

Length: Year

Credits: 5

805 Accounting 2 - Introduces computerized accounting. Students will have hands-on experience completing accounting transactions for corporations, payroll, taxation, combined journals, depreciation, and writing off uncollectible accounts. A four week, hands-on simulation will be completed.

Prerequisite: Accounting I (≥70)

Length: Year

Credits: 5

(Course below fulfills only the graduation requirement for Financial and Economic Literacy)

808 Financial Literacy and Economics – (Required for all 9th graders.) This course is designed to promote a comprehensive understanding of personal finance and basic economics. Students will spend considerable time studying credit and debt management, banking and finance, planning, saving and investing, economics, money management, income and careers, and the global economy. Moreover, the course will be enhanced with speakers from various institutions on related financial topics, as well as career opportunities and current trends in the field. The course will culminate with an interactive simulation of personal finance events which affords students the opportunity to apply their knowledge and skills to real world scenarios.

Prerequisite: None

Length: Semester

Credits: 2.5

COMPUTER APPLICATIONS

(Courses below fulfill the graduation requirement for Tech Literacy, Career Ed, and Life Skills or Vocational/Technical Education)

- 721 Computer Animation** – Lights, camera, animate! The animation class gives students the chance to use Flash animation and advanced graphical editors to create their own animated movie! Learn the steps to create an animation from the storyboard, rough draft, character development, and final movie. Also manipulate graphical objects to designing your own video game!
Prerequisite: Introduction to Web Design *Length:* Semester *Credits:* 2.5
- 722 Introduction to Web Design** – Introduces the basic concepts and applications of designing for the web medium. Students will develop a working knowledge of the Internet, web-related “languages,” design principles, and web design software. Each student will be responsible for developing and maintaining multiple web sites.
Prerequisite: None *Length:* Semester *Credits:* 2.5
- 723 Dynamic Web Applications** – The course familiarizes advanced students with the concepts and techniques needed to construct dynamic, interactive Web applications. The primarily Macromedia Flash-driven course will give students the tools necessary to create customized web sites, stunning visual effects, animation, and interactive navigation. Each student will be responsible for developing and maintaining dynamic HTML and Flash-driven Web sites.
Prerequisite: Introduction to Web Design *Length:* Semester *Credits:* 2.5
- 724 CAD Computer Design** – Utilizes computer software to prepare a variety of two- and three-dimensional models. Using unique solid-modeling software, students will develop a wide range of computer graphic skills. Students will have the opportunity to deal with drafting design, technical drawing, and engineering graphics through the use of computers. The course offers students interested in computers, engineering, architecture, design or manufacturing the opportunity to perform high technology applications using computer graphics skills.
Prerequisite: None *Length:* Semester *Credits:* 2.5

* **Introduction to Computer Science** and **AP Computer Science** course descriptions on Page 15.

ENGLISH

Four years of language arts are required for graduation. All courses address New Jersey State Core Curriculum Content Standards.

- 111 English 1** – Approaches the study of literature with a focus on genre: poetry, short stories, nonfiction, biography, autobiography, mythology, novels, Shakespearean plays, and drama. This course also addresses research, public speaking, usage, SAT/HSPA vocabulary, and writing skills. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: None *Length:* Year *Credits:* 5
- 112 Honors English 1** - Offers an enhanced version of English 1 following a similar genre-driven approach. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: See placement criteria on Page 10. *Length:* Year *Credits:* 5
- 121 English 2** – Focuses on American literature and examines the exploratory essay, thesis paper, usage, SAT/HSPA vocabulary, creative writing, note taking, book reviews, library reference skills, short stories, poetry, drama, and novels. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: English 1 *Length:* Year *Credits:* 5
- 122 Honors English 2** – Offers an enhanced version of English 2, following a similar focus on American literature. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: English 1 (≥90) or
Honors English 1 (≥80) *Length:* Year *Credits:* 5
- 131 English 3** – Surveys world literature thematically. Featured are forms of tragedy, readings in world literature, usage, writing, SAT/HSPA preparation, and public speaking. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: English 2 *Length:* Year *Credits:* 5
- 132 Honors English 3** – Surveys world literature thematically. Featured are forms of tragedy, readings in world literature, usage, writing, SAT/HSPA preparation, and public speaking. This course emphasizes the student’s ability to analyze and synthesize literature, write with clarity and depth of thought, and participate actively in class discussions. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: English 2 (≥90) or
Honors English 2 (≥80) *Length:* Year *Credits:* 5
- 141 English 4** –A college-preparatory course that surveys a wide variety of British literature. Students will read poetry, novels, and plays that represent the Anglo-Saxon, Medieval, Renaissance, Romantic, Victorian, and Modern Periods. English 4 develops students’ skills in vocabulary, reading, writing, critical thinking, speaking, and research. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: English 3 *Length:* Year *Credits:* 5
- 142 Honors English 4** – Offers an enhanced version of English 4 with more intensive study of acknowledged masters. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: English 3 (≥90) or
Honors English 3 (≥80) *Length:* Year *Credits:* 5

179 Transitional English – Approaches the study of literature with a focus on genre: poetry, short stories, nonfiction, biography, mythology, folk tales, novels, and drama with a special focus on the needs of second language learners. Students will study level appropriate literature and research with reinforcement of vocabulary and grammatical structure.

Prerequisite: None

Length: Year

Credits: 5

900 Academic Center for Educational Services (A.C.E.S.) – This course provides support in mathematics and language arts. It provides review and reinforcement according to students' needs. This program emphasizes reading, mathematics and study skills, e.g., test taking techniques, academic organization, notetaking skills. This course is available to all students.

Prerequisite: None

Length: Semester

Credits: 2.5

Office of Humanities

PLACEMENT CRITERIA FOR HONORS ENGLISH GRADE 9

The following is the criteria used to determine English Honors Placement for the 2010-2011 school year. These criteria assure that students' skills are reviewed both mid year as well as at the end of the year to guarantee proper placement.

40 pts. Final Average

24 pts. – Writing Sample

Each writing sample has been scored by 4 district English teachers using the NJDOE Registered Holistic Scoring Rubric. This writing sample adds up to 24 points to the criteria for placement.

36 pts. – NJASK Score

Students' Literacy scores contribute up to 36 pts. to the criteria for placement.

English MP 1,2,3 Average	NJ State Assessment*	Writing Sample
A+ = 40 pts.	300 – 250 = 36 pts.	0-24 pts.
A = 36 pts.	249 – 230 = 26 pts.	
B+ = 32 pts.	229 – 210 = 18 pts.	
B = 28 pts.	209 – 0 = 8 pts.	
C+ = 24 pts.		
C = 20 pts.		
D+ = 16 pts.		
D = 12 pts		
F = 0		

Total Score = MP 1,2,3 Average + NJ State Assessment + Writing Sample Score

To be considered for an Honors class, a student must achieve at least 80 of the 100 total points possible. Successful completion of a prerequisite honors course automatically carries a weight of an additional **eight** points onto students' composite score.

No department reviews will be entertained by students who do not accumulate a minimum of 75 points.

* 250 is the cut-off for Advanced Proficient level on the NJASK.

FAMILY AND CONSUMER SCIENCES

(Courses below fulfill the graduation requirement for Tech Literacy, Career Ed, and Life Skills or Vocational/Technical Education)

- 701 Culinary Arts** – Explores, in unique semester cycles, a wide variety of food preparation techniques, dietary topics and important food issues using hands-on lab projects. One cycle may feature world cuisine, quick and easy foods, healthy breakfast and snack foods as well as traditional yeast breads and desserts. Another cycle may feature healthy microwave meals, delicious vegetarian foods and American regional and seasonal foods. Current technology in foods and preparation techniques is explored through the use of the Internet and lab projects. Each cycle will develop culinary skills and techniques and encourage group cooperation and self-confidence. Because each cycle is unique, this course may be selected for more than one semester.

Prerequisite: None

Length: Semester or Year

Credits: 2.5 or 5

MATHEMATICS

Three years of mathematics are a graduation requirement. It is strongly recommended that all students elect a fourth year of mathematics. All courses address New Jersey Core Curriculum Content Standards.

- 212 Algebra 1A** – Introduces the rules of algebra, linear equations, and inequalities, polynomials, exponents, scientific notation, factoring, rational expressions, and probability. It is the first year of a two-year Algebra 1 course.
Prerequisite: Grade 8 math *Length:* Year *Credits:* 5

*Both Algebra 1A **and** Algebra 1B must be completed to receive credit for Algebra 1; however, completion of both courses constitutes two years of math credit towards fulfilling high school graduation requirements.*

- 213 Algebra 1B** – Reviews topics from Algebra 1A. Additional topics include graphs, systems of linear equations and inequalities, radicals, and quadratic equations. It is the second year of a two-year Algebra 1 course.
Prerequisite: Algebra 1A *Length:* Year *Credits:* 5

- 214 Algebra 1** - Introduces mathematical symbols, problem solving strategies, real numbers, equation solving, polynomials, factoring, algebraic fractions, linear equations and systems, inequalities, rational and irrational numbers, and quadratic equations.
Prerequisite: Grade 8 Algebra 1 ($\leq C+$) or Grade 8 math ($\geq B$) *Length:* Year *Credits:* 5

- 215 Basic Geometry** – Focuses on key topics that provide a strong foundation in the essentials of geometry. Topics include the study of points, lines, angles, triangles, areas of polygons, ratio and proportions, congruent and similar polygons, circles, areas and volumes of solids, right triangles, coordinate geometry, transformations, and introductory right triangle trigonometry.
Prerequisite: Algebra 1 or Algebra 1B *Length:* Year *Credits:* 5

- 216 Geometry** - Includes the study of lines and angles, deductive proofs, congruent triangles, quadrilaterals, circles, proportions, right triangle trigonometry, areas of polygons, regular polygons and the circle, solid geometry, coordinate geometry, and transformations.
Prerequisite: Honors Algebra 1 ($\leq B$) or Algebra 1 ($\geq B$) or Algebra 1B (≥ 93) *Length:* Year *Credits:* 5

- 217 Honors Geometry** - Emphasizes high level conceptual thinking skills. Topics include complex proofs, solid figures, angle relationships, lines, planes, triangles, similar polygons, circles, coordinate geometry, areas of polygons and circles, areas and volumes of solids, and transformations.
Prerequisite: Grade 8 Honors Algebra 1 ($\geq B+$) or Algebra 1 ($\geq A$) **and** Department Recommendation *Length:* Year *Credits:* 5

- 218 Algebra 2** - Includes the study of real numbers, equations, inequalities, polynomials, rational expressions, complex numbers and radicals, quadratic functions, conic sections, linear and non-linear systems, and exponential and logarithmic functions. This course proceeds at a slower pace and does not delve into topics as deeply as Advanced Algebra 2.
Prerequisite: Algebra 1 or Algebra 1B **and** Basic Geometry or Geometry *Length:* Year *Credits:* 5
- 219a Advanced Algebra 2** - Includes the study of real numbers, equations, inequalities, polynomials, rational expressions, complex numbers and radicals, quadratic functions, polynomial equations, conic sections, linear and non-linear systems, exponential and logarithmic functions, sequences, series, and matrices.
Prerequisite: Algebra 1 ($\geq B$) **and** Geometry (≥ 80) or Algebra 1B (≥ 93) **and** Basic Geometry (≥ 93) *Length:* Year *Credits:* 5
- 220a Honors Algebra 2** - Includes systems of numbers, inequalities, relations and functions, polynomials, rational expressions, complex numbers, radicals, quadratic functions, polynomial equations, conic sections, exponential and logarithmic functions, sequences, series, and matrices. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: Honors Geometry (≥ 80) or Algebra 1 (A) **and** Geometry (≥ 90) *Length:* Year *Credits:* 5
- 221b Introduction to Pre-Calculus** - Includes the study of trigonometry, exponential and logarithmic functions, sequences and series, combinatorial analysis, probability, relations, functions, graphs, and complex numbers.
Prerequisite: Adv. Algebra 2 or Algebra 2 *Length:* Year *Credits:* 5
- 222 Pre-Calculus** - Continues the study of functions, trigonometry, coordinate geometry, trigonometric functions, graphing, inverse functions, polynomials, inequalities, exponents and logarithms, conic sections, limits, and probability.
Prerequisite: Honors Algebra 2 (< 80) or Adv. Algebra 2 (≥ 80) or Algebra 2 (≥ 93) or Intro to PreCalc (≥ 80) *Length:* Year *Credits:* 5
- 223 Honors Pre-Calculus** – Includes the study of functions and graphs, circular functions, trigonometry, complex numbers, polar coordinates, inverse functions, polynomial, exponential and logarithmic functions, Binomial Theorem, combinatorics and probability, limits, and derivatives. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: Honors Algebra 2 (≥ 80) or Adv. Algebra 2 (≥ 90) **and** Geometry (≥ 90) **and** Departmental Review *Length:* Year *Credits:* 5
- 224 Calculus** – Reviews algebraic and graphing calculator skills. Topics include functions and graphs, exponential and logarithmic functions, trigonometric functions, limits, derivatives, integrals and simple differential equations.
Prerequisite: PreCalculus or Honors PreCalculus *Length:* Year *Credits:* 5

- 225 Advanced Placement Calculus AB** – Includes functions and graphs, limits and continuity, differential calculus, integral calculus and preparation for the AP Calculus AB examination. This course is equivalent to College Calculus I.
Prerequisite: Honors PreCalculus (≥ 70) or
 PreCalculus (≥ 90) *Length:* Year *Credits:* 5
- 226 Advanced Placement Calculus BC** – Presents a comprehensive study of functions and graphs, limits and continuity, differential calculus, integral calculus, parametric equations, polar graphs, series, and preparation for the AP Calculus BC examination. This course is equivalent to College Calculus I and II. **SUMMER ASSIGNMENT REQUIRED.**
Prerequisite: Honors PreCalculus (≥ 80) *Length:* Year *Credits:* 5
- 227a Finite Math** – Involves the study of a variety of mathematical concepts. Includes: calculator skills, functions and graphs, matrices, systems of equations, sequences and series, linear programming, mathematics of finance, probability, and statistics.
Prerequisite: Algebra 2 *Length:* Year *Credits:* 5
- 228 Advanced Placement Statistics** - Introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics include interpreting graphical displays, summarizing and comparing distributions of univariate data, exploring bi-variate data, the normal distribution, sampling distributions, confidence intervals, and tests of significance.
Prerequisite: Honors Algebra 2 (≥ 70) or
 Adv. Algebra 2 (≥ 83) *Length:* Year *Credits:* 5
- 900 Academic Center for Educational Services (A.C.E.S.)** – This course provides support in mathematics and language arts. It provides review and reinforcement according to students' needs. This program emphasizes reading, mathematics and study skills, e.g., test taking techniques, academic organization, notetaking skills. This course is available to all students.
Prerequisite: None *Length:* Semester *Credits:* 2.5

(Courses below fulfill the graduation requirement for Tech Literacy, Career Ed, and Life Skills or Vocational/Technical Education)

230 Introduction to Computer Science - Introduces students to computer programming techniques using the Java programming language. Topics include: control structures, selection structures, iteration structures (loops), input/output statements, data types, files, arrays and matrices, object-oriented programming, and graphics. This course builds skills needed for a successful transition to AP Computer Science.

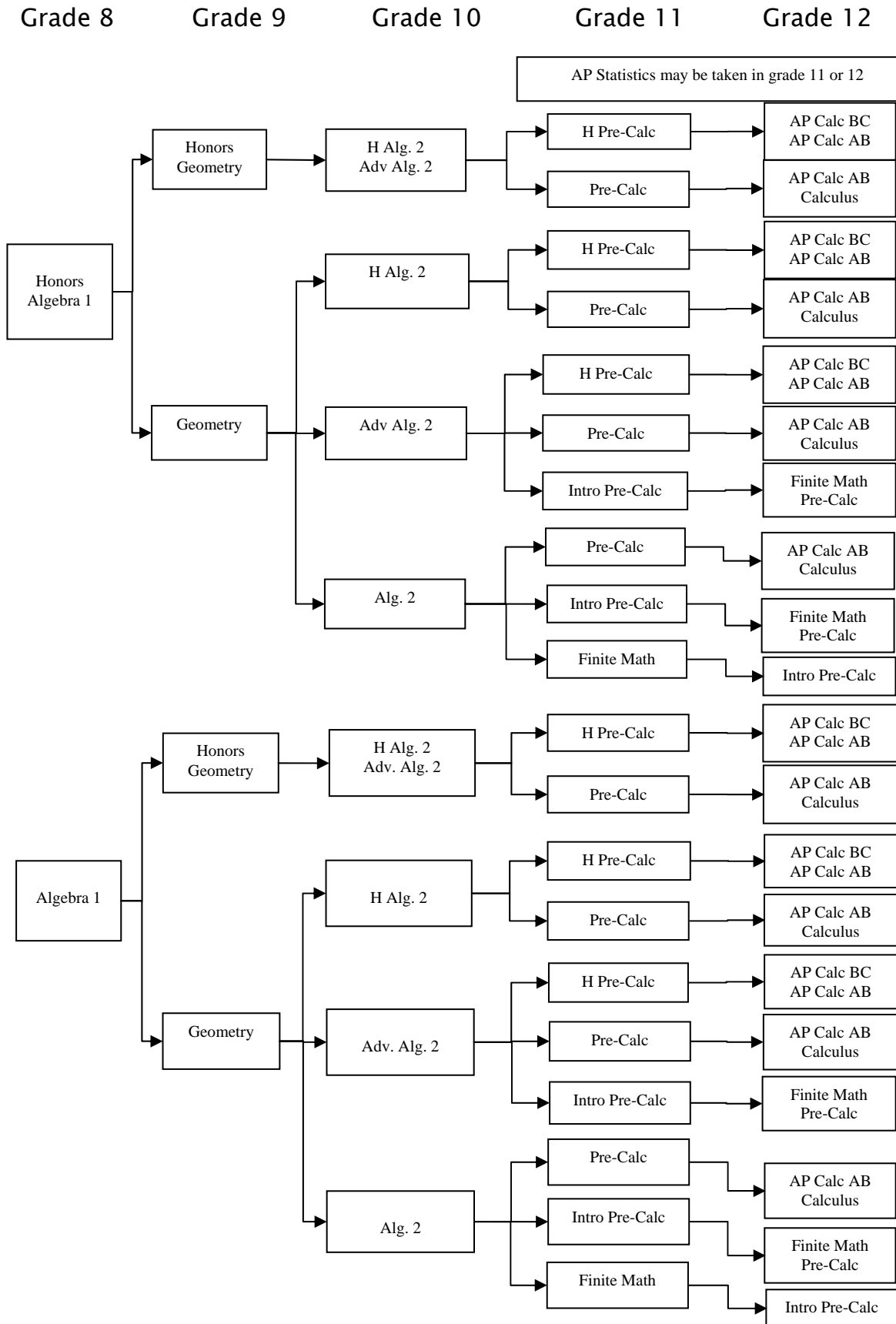
Prerequisite: Grade 8 Honors Algebra 1 ($\geq B$) or
Geometry (≥ 80) or Basic Geom (≥ 93) *Length:* Year *Credits:* 5

231 Advanced Placement Computer Science - Familiarizes students with programming concepts (using the Java programming language) comparable to introductory courses in computer science at the college level. Topics include: Java fundamentals, arrays and matrices, selection and repetition, pointers and dynamic memory, strings and text, classes and object-oriented programming, recursion, searching and sorting techniques, and algorithmic analysis.

Prerequisite: Grade 8 Honors Algebra 1 ($\geq A$) or
Honors Geom ($\geq B$) or Introduction to
Computer Science *Length:* Year *Credits:* 5



Typical Mathematics Sequences 2010 - 2011



Typical Mathematics Sequences 2010–2011

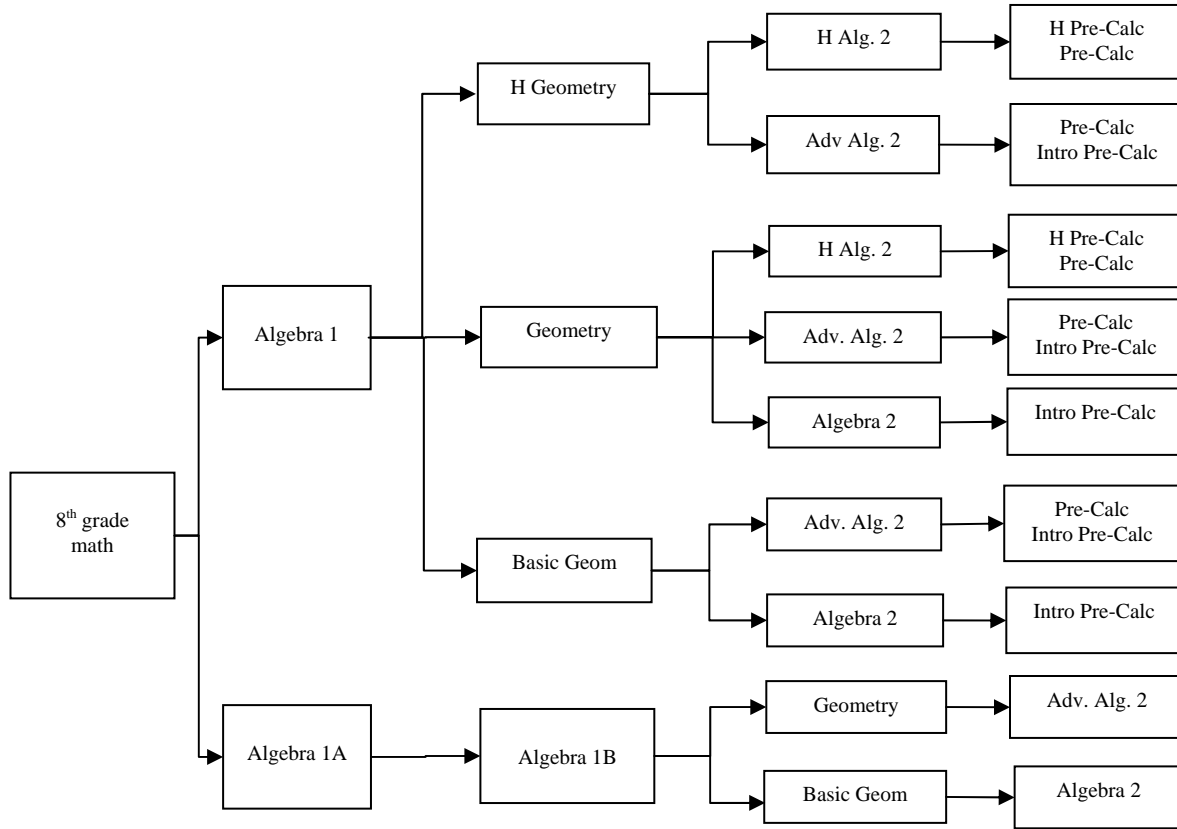
Grade 8

Grade 9

Grade 10

Grade 11

Grade 12



SCIENCE

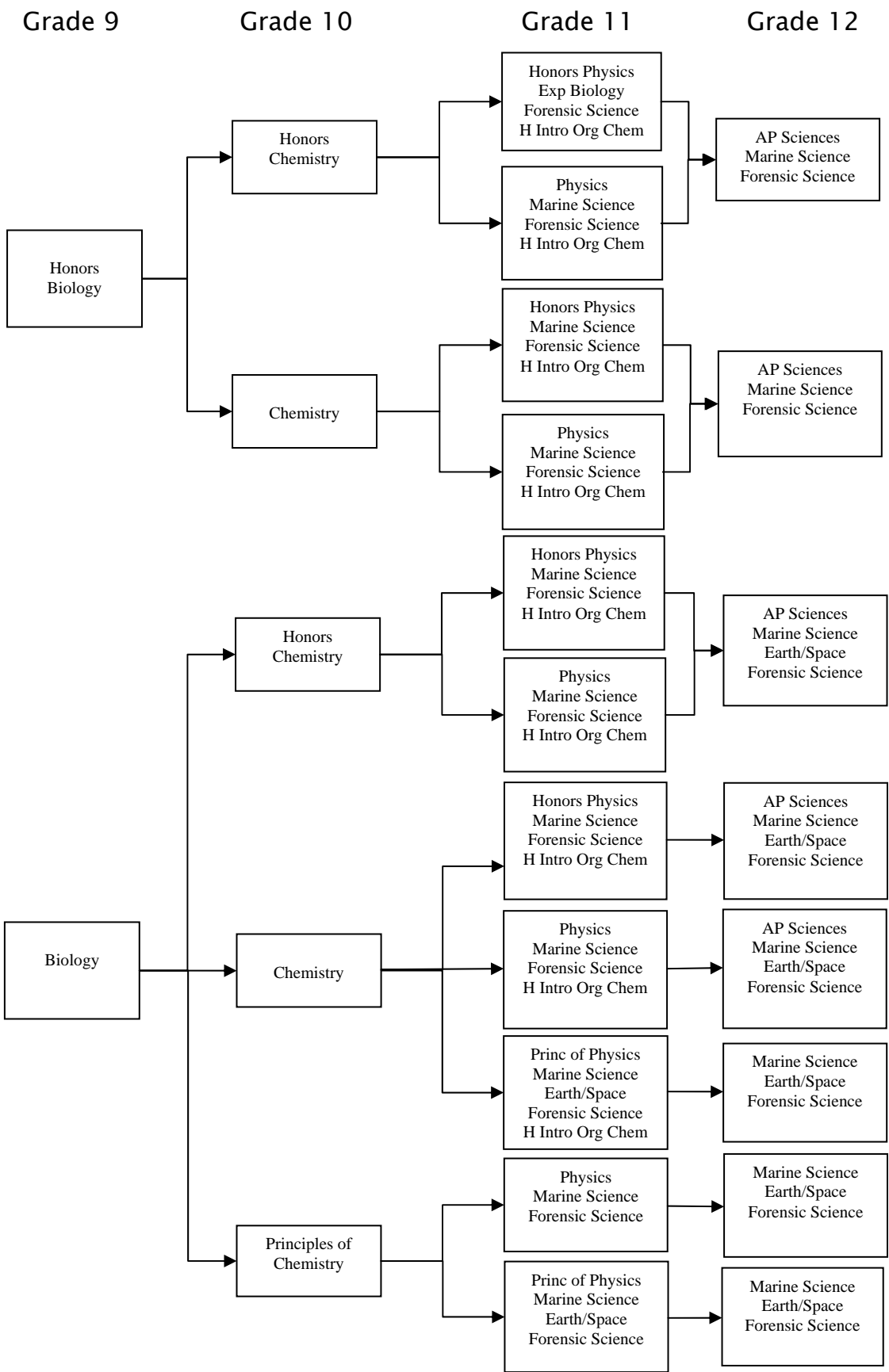
Three years of science are a graduation requirement. All courses address New Jersey State Core Curriculum Standards.

- 510 Principles of Biology/Lab** – Provides a general survey of the major topics in biology including the scientific method, cell theory, unity and diversity of life, photosynthesis, respiration, DNA, genetics, evolution, reproduction, plant and animal structure/function, human physiology, and behavior, and ecology.
Prerequisite: Grade 8 Science ($\leq C+$) *Length:* Year *Credits:* 6
- 511 Biology/Lab** – Provides an in-depth examination of the scientific method, cell theory, unity and diversity of life, photosynthesis, respiration, DNA, genetics, reproduction, human physiology, and plant and animal behavior, and ecology.
Prerequisite: Grade 8 Science ($\geq B$) *Length:* Year *Credits:* 6
- 512 Honors Biology/Lab** – Follows an analytical and interpretive molecular approach to studying cell theory, unity and diversity of life, metabolism, photosynthesis, respiration, DNA, genetics, reproduction, human physiology, and plant and animal surveys. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: Grade 8 Science ($\geq A$) *Length:* Year *Credits:* 6
- 514 Advanced Placement Biology/Lab** - Examines molecular, cellular, organism and population biology, evolution, ecology, human physiology, behavior, and review and preparation for the Advanced Placement Biology Examination. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: Honors Biology (≥ 80) or Biology (≥ 90) **and**
Honors Chemistry (≥ 80) or Chemistry (≥ 90) *Length:* Year *Credits:* 6
- 520 Marine Science/Lab** - Examines marine zonation, plankton, tides, erosion, ichthyology, marine mammals, pollution, commercial fisheries, future of ocean resources, and shark physiology through field-oriented study. Lab requirements are met each quarter by required field experiences.
Prerequisite: 2 years of science
Preference given to grade 12, then grade 11 *Length:* Year *Credits:* 6
- 521 Physical Science with Earth Science/Lab** – Provides students with a survey course which incorporates basic principles of physics, chemistry, and earth science. Topics covered include motion, forces and energy, properties of atoms, chemical bonds and reaction, stars and galaxies, rocks and minerals, and Earth's changing surface.
Prerequisite: Principles of Biology *Length:* Year *Credits:* 6
- 530 Principles of Chemistry/Lab** – Covers an introduction to chemistry. Topics include atomic structure, chemical names and formulas, states of matter, thermochemistry, gas laws, introduction to chemical periodicity, bonding, water and aqueous systems, solutions, acids, and bases.
Prerequisite: Principles of Biology (≥ 83) **and** Alg 1B or 1,
or Princ. of Biology **and** Physical Science *Length:* Year *Credits:* 6

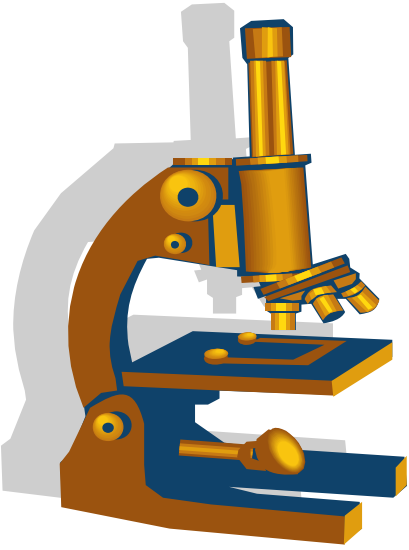
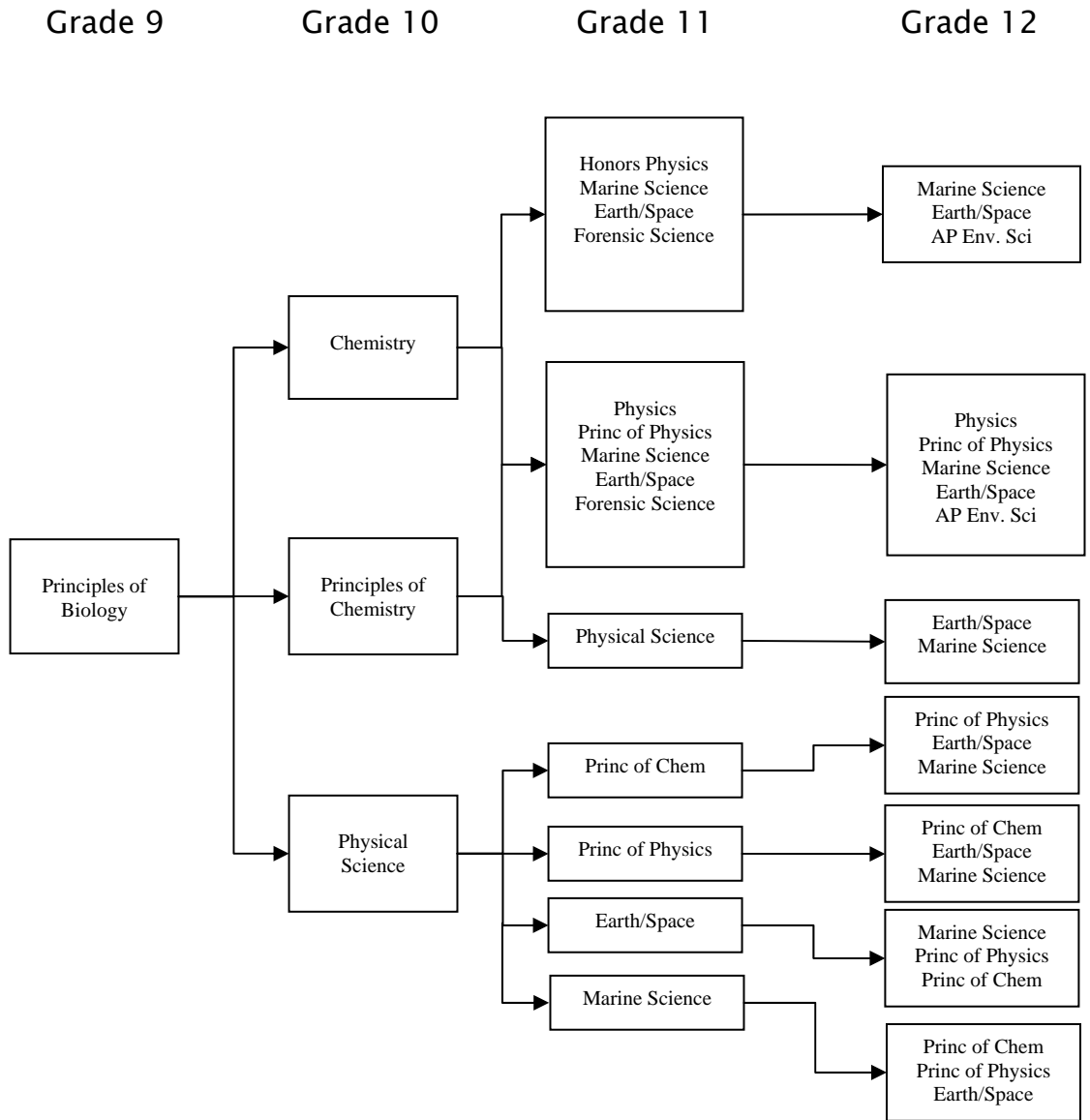
- 531 Chemistry/Lab** - Examines scientific measurement, atomic structure, chemical reactions, stoichiometry, thermochemistry, behavior of gases, electron configurations, chemical periodicity, ionic and covalent bonds, properties of solutions, equilibrium, acids and bases, oxidation-reduction reactions, and electrochemistry.
Prerequisite: Honors Biology (≤ 80) or Biology (≥ 80) **and** Algebra 1 ($\geq B$) or Principles of Biology (≥ 93) **and** Algebra 1 ($\geq B$) *Length:* Year *Credits:* 6
- 532 Honors Chemistry/Lab** - Emphasizes scientific measurement, atomic structure, chemical reactions, stoichiometry, thermochemistry, behavior of gases, electron configurations, chemical periodicity, ionic and covalent bonds, properties of solutions, equilibrium, acids and bases, oxidation-reduction reactions, and electrochemistry.
Prerequisite: Honors Biology (≥ 80) or Biology (≥ 90) **and** Algebra 1 ($\geq A$) or Honors Algebra 1 ($\geq B$) *Length:* Year *Credits:* 6
- 533 Advanced Placement Chemistry/Lab** - Investigates atomic structure, chemical bonding, molecular geometry, equations and quantitative relations, gases, liquids and solids, solutions, electrochemistry, kinetics and equilibrium, thermodynamics, acids and bases, ionic equilibria, organic chemistry, and review and preparation for the Advanced Placement Chemistry Examination. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: Honors Chemistry (≥ 80) or Chemistry (≥ 90) **and** Algebra 2 (≥ 93) or Chemistry (≥ 90) **and** Adv. Algebra 2 (≥ 90) or Chemistry (≥ 90) **and** H. Algebra 2 (≥ 80 or better) *Length:* Year *Credits:* 6
- 534 Honors Introduction to Organic Chemistry/Lab** – Covers pertinent highlights of basic organic chemistry and deals with nomenclature, structure, and reactions. It also introduces major techniques used in the identification and analysis of organic compounds. Lastly, the course will introduce simple biochemical molecules and biochemical pathways involved in metabolism. This course is good preparation for careers in forensic science, nutrition, nursing, physician, and lab technologists.
Prerequisite: Honors Chemistry (≥ 70) or Chemistry (≥ 80) *Length:* Year *Credits:* 6
- 540 Earth and Space Science/Lab** - Examines geologic and other natural forces that affect the Earth, the origin of the universe, and the development of galaxies and the formation of our solar system.
Prerequisite: 2 years of science
 Preference given to grade 12, then grade 11 *Length:* Year *Credits:* 6
- 541 Forensic Science/Lab** – Provides students with an interactive and “hands-on” approach to understanding the nature of crime investigation. Using deductive reasoning and critical thought process, students will study and analyze various components of a criminal investigation, including physical evidence, DNA, fingerprints, osteology and odontology, toxicology, serology, and trace evidence. Furthermore, students will be exposed to the history and evolution of forensic science through studying technological advancements and landmark criminal cases.
Prerequisite: Honors Biology (≥ 70) **and** Honors Chemistry (≥ 70) or Biology (≥ 80) **and** Chemistry (≥ 80) or Principles of Biology (≥ 93) **and** Principles of Chemistry (≥ 93) *Length:* Year *Credits:* 6

- 542 Principles of Physics/Lab** – Introduces mechanics, properties of matter, heat, sound and light, electricity and magnetism, and an introduction to atomic physics.
Prerequisite: 2 years of science **and** Algebra 1 ($\geq C$) or Algebra 1B (≥ 80) *Length:* Year *Credits:* 6
- 543 Physics/Lab** - Explores kinematics, dynamics, momentum, energy, gravitation, electromagnetism, sound, and optics.
Prerequisite: Chemistry (≥ 80) or Principles of Chemistry (≥ 93) **and** Geometry (≥ 80) or Principles of Chemistry (≥ 93) **and** Basic Geometry (≥ 93)
Length: Year *Credits:* 6
- 544 Honors Physics/Lab** – Emphasizes a mathematical treatment of mechanics, universal gravitation, electricity and magnetism, waves, sound, and optics.
Prerequisite: Honors Chemistry (≥ 80) or Chemistry (≥ 90) **and** Algebra 2 (≥ 93) or Adv. Algebra 2 (≥ 83) *Length:* Year *Credits:* 6
- 545 Advanced Placement Physics/Lab** - Continues from previous preparation with advanced treatments of optics, modern physics, thermodynamics, simple harmonic motion, rotational mechanics, and electromagnetism. Course stresses independent study to prepare the student for the Advanced Placement Physics Exam.
Prerequisite: Honors Physics (≥ 80) or Physics (≥ 90) **and** Pre-Calculus (≥ 90) *Length:* Year *Credits:* 6
- 550 Advanced Placement Environmental Science/Lab** – Provides students with the scientific principles, concepts, and field experiments required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and man-made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving and/or preventing them. Topics include the flow of energy, the cycling of matter, the solid Earth, the atmosphere, the biosphere, human population dynamics, renewable and nonrenewable resources, environmental quality, and global changes and their consequences.
Prerequisite: Honors Chemistry (≥ 70) or Chemistry (≥ 83) *Length:* Year *Credits:* 6
- 551 Honors Advanced Research** – Engages in high level problem solving activities through research and experimentation. The learners will work closely with the instructor to enlist a professional researcher to help them accomplish their goals. Students will be encouraged to enter their research projects in competitions that will earn recognition. Students may also work independently on a specific research project they have developed. This course meets after school.
Prerequisite: Honors course in a selected field of research **and** Science supervisor recommendation *Length:* Year *Credits:* 6

Typical Science Sequences 2010–2011



Typical Science Sequences 2010–2011



SOCIAL SCIENCE

Three years of social science are required for graduation. Refer to the list below for the usual sequence of courses:

Grade 9	World Civilizations
Grade 10	U.S. History I or AP United States History I
Grade 11	U.S. History II or AP United States History II

Social Science Electives

Human Geography	Grades 10, 11, 12
Psychology	Grades 10, 11, 12
Anthropology	Grades 10, 11, 12
Sociology	Grades 10, 11, 12
Contemporary International Relations	Grades 11, 12
AP Psychology	Grades 11, 12
AP Economics: Macroeconomics	Grades 11, 12
AP Economics: Microeconomics	Grades 11, 12
AP American Government	Grade 12

- 311 World Civilizations** – Examines the historical and cultural development of world history beginning with the high Middle Ages and concluding with the modern era. Emphasis will be placed on political, social, economic, and technological developments as well as historical change. The course includes a contextual introduction to the social sciences with an emphasis on the impact of geography on history and culture.
Prerequisite: None *Length:* Year *Credits:* 5
- 320 U.S. History I** – Presents a survey of American history beginning with the Age of Exploration and culminating with the end of Reconstruction after the Civil War. Throughout the course of the year, students will trace the political, economic, cultural, and geographic development of the United States of America.
Prerequisite: World Civilizations *Length:* Year *Credits:* 5
- 330 U.S. History II** – Examines the Age of Expansion, Progressivism, World War I, 1920's, Great Depression, New Deal, World War II, Cold War and the Fair Deal, Korea, Eisenhower years, McCarthyism, Kennedy's New Frontier, Johnson's Great Society, Vietnam, and current political issues, figures and administrations.
Prerequisite: U.S. History I *Length:* Year *Credits:* 5
- 331 Human Geography** – An introduction to the study of geography as a social science. The course emphasizes the role of geographic concepts to past and present human issues in an effort to understand human behavior. Students will analyze the role of geographic resources in regional and world conflicts, immigration and migration population issues, allocation of natural resources, as well as spatial variation and impact of climate on humans. Regional geographic issues as they relate to race relations, impact of nationalism, and human rights shall be investigated.
Prerequisite: World Civilizations *Length:* Semester *Credits:* 2.5

- 350 Advanced Placement American Government** - Provides knowledge of the United States' diverse political structure and practices. The course encompasses the study of both specific policies and the general concepts used to interpret the key political relationships found in virtually all politics.
Prerequisite: US History II (≥90)
 AP U.S. History II (≥80) *Length:* Year *Credits:* 5
- 351 Advanced Placement United States History I** - Presents the first course of a two-year program for tenth and eleventh grade students. Year one covers the discovery and settlement of North America to 1877. Year two reviews United States History from 1877 to the present day. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by a full-year introductory college course.
Prerequisite: World Civilizations (≥90) **and**
 English (≥90) or Honors English (≥80) *Length:* Year *Credits:* 5
- 352 Advanced Placement United States History II** - Presents the second course in a two-year sequence of college level study in United States History. The course examines the following topics within the time frame of 1877 and the present day: immigration, foreign policy, national politics, progressive movements, and the economy. The sequence of courses, Advanced Placement United States History I and Advanced Placement United States History II, will fully prepare students to meet the challenge of the Advanced Placement Examination in United States History. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: AP U.S. History I (≥80) *Length:* Year *Credits:* 5
- 353 Advanced Placement Psychology** – Addresses the systematic and scientific study of behavior at the college level. The course content includes the major sub-fields of psychology: history, biological bases of behavior, sensation/perception consciousness, learning/cognition, motivation, development, personality, intelligence, abnormal, and social psychology with a heavy emphasis on writing. The program aligns with the AP Psychology course outline as it appears in the College Board catalog. SUMMER ASSIGNMENT REQUIRED.
Prerequisite: Juniors – US History I (≥90) **or**
 AP US History I (≥80)
 Seniors – US History II (≥90) **or**
 AP US History II (≥80)
 Available to Grades 11 and 12 only *Length:* Year *Credits:* 5

TECHNOLOGY EDUCATION

(Courses below fulfill the graduation requirement for Tech Literacy, Career Ed, and Life Skills or Vocational/Technical Education)

- 711 Graphic Arts Technology** – This basic course, which is the foundation for all graphic arts areas of study, will give the students the skills and knowledge necessary to advance in the two subject areas (photography and drafting) of the program. The students will be introduced to the equipment and supplies associated with these areas. The course provides an overview of the processes and materials used in drafting and photography. Students will learn basic technical drawing language, and use 35mm and digital cameras. They will utilize a darkroom and begin project books.
Prerequisite: None *Length:* Semester *Credits:* 2.5
- 716 Television Production I – (formerly Introduction to Television Production)** Introduces students to the basics of studio television production. Areas of study and practical learning experiences will include: directing for television, writing for television, the television camera, newscasts, advertising, lighting, video recording, audio for television and talent for television. Television shows to air on the local area cable channel may be produced.
Prerequisite: None *Length:* Semester *Credits:* 2.5
- 717 Television Production II – (formerly Advanced Television Production)** Provides students an overview of television using the location procedures of shooting in segments and editing. This course includes the possibility of movie making. Those students taking the course for the second time will have the opportunity to further develop their communication skills in this medium, both in the studio and on location. Programs to “air” on the local area cable channel will be produced.
Prerequisite: Television Production I *Length:* Semester *Credits:* 2.5
- 718 * Television Production III** – This advanced level course requires students to understand and use the skills learned in the two previous TV courses. This course will highlight production management and will teach students to manage and produce projects from their TV II class. As such, students will be in charge of production schedules, coordination, as well as producing and shooting their own productions to “air” on the local area cable channel. Studio and on-location shoots are an integral part of the course, as are taping and editing. Students will be required to shoot an independent movie to be shown at the Holmdel High School Film Festival.
Prerequisite: Television Production II *Length:* Semester *Credits:* 2.5

** Television Production III also qualifies as a Visual and Performing Arts requirement.*

VISUAL AND PERFORMING ARTS

(Courses below fulfill the graduation requirement for Visual and Performing Arts.)

- 602 Art I: 2- and 3- Dimensional Art – (formerly Introduction to Drawing, Painting, and Ceramics)** Presents a foundation for creating, understanding and appreciating art taught through hands-on experiences. Students will work both two and three dimensionally and develop skills in a variety of drawing and painting media. Functions of art, criticism, and historical perspectives will be explored. This course is recommended for students who want to experience visual arts on the high school level as well as those who want to begin a sequential high school art program.
Prerequisite: None *Length:* Semester *Credits:* 2.5
- 603 Art II: Drawing/Painting – (formerly Drawing/Painting)** Presents perceptual and conceptual approaches to drawing and painting through exploration of traditional media and techniques, as well as new technology and historical perspectives. A weekly sketchbook is required.
Prerequisite: Art I *Length:* Semester *Credits:* 2.5
- 604 Honors Advanced Drawing – (formerly Advanced Drawing)** Presents advanced techniques and concepts in drawing. This course is strongly suggested for students who are interested in developing their drawing skills, intend to elect Art Studio, and/or wish to prepare a portfolio.
Note: *Advanced Drawing and Art Studio may be combined when necessary.*
Prerequisite: Art II *Length:* Semester *Credits:* 2.5
- 605 Honors Sculpture – (formerly Sculpture/Printmaking)** Presents principles of design relating to three-dimensional art. Topics include, but are not limited to: use of armature, development of plaster molds, casting techniques, carving, and historical perspectives. Emphasis on developing the student's individual style when working in three-dimensions.
Prerequisite: 2 Semesters of Art *Length:* Semester *Credits:* 2.5
- 606 Ceramics I** - Provides hand building and wheel throwing experiences with emphasis on ceramic form and design, decorating and glazing, and cultural and historical perspectives. Readings and worksheets will cover clay, glazes, and firing.
Prerequisite: None *Length:* Semester *Credits:* 2.5
- 606a Ceramics II** - Presents advanced hand building and wheel thrown projects. The class will be structured and at the same time flexible enough for individual expression and experience.
Prerequisite: Ceramics I *Length:* Semester *Credits:* 2.5
- 608 Honors Art Studio – (formerly Art Studio)** Emphasizes portfolio development, teacher-and-student generated visual problems, presentation and display of work at the advanced level; sketchbook required. *Note:* *Advanced Drawing and Art Studio may be combined when necessary.*
Prerequisite: 4 semesters of Art including
Honors Advanced Drawing
(Grades 11 and 12) *Length:* Year *Credits:* 5

612* Concert Chorus - This course welcomes students interested in singing various styles of music, with an emphasis on learning vocal techniques and the fundamentals of sight singing. The course is performance-oriented with **required** participation in concerts and school/community events. Membership in Concert Chorus or Mixed Chorus, along with recommendation of the choral director, is required of students planning to apply for All-Shore and/or All-State consideration.

Prerequisite: Audition by appointment with the instructor

Length: Year *Credits:* 5

613* Symphonic Band – This course welcomes students interested in playing various styles of music, with an emphasis on proper technique and the fundamentals of sight playing. The course is performance-oriented with **required** participation in concerts and school/community events (including Football games). Membership in Symphonic Band or Jazz Ensemble, along with recommendation of the band director, is required of students planning to apply for All-Shore, All-Region, or All-State consideration.

Prerequisite: Audition by appointment with the instructor

Length: Year *Credits:* 5

614* Jazz Ensemble – This course explores the Jazz idiom within the context of performance. Jazz styles, history, theory, and improvisation are emphasized. The course is performance-oriented with **required** participation in concerts and school/community events (including Football games). Membership in Jazz Ensemble or Symphonic Band, along with recommendation of the band director, is required of students planning to apply for All-Shore, All-Region, or All-State consideration.

Prerequisite: Audition by appointment with the instructor

Length: Year *Credits:* 5

* Based on individual performance, and across a variety of assessments (extended musical preparation for auditioned and other ensembles, extended musical study and research), students in Concert Chorus (612), Symphonic Band (613), and Jazz Ensemble (614) will be eligible to earn honors credit. Written criteria and timelines for honors consideration will be distributed and articulated by the instructor during the first week of the course.

615 American 20th Century Music – Through this non-performance course, students gain a clear understanding of the social, historical, and musical time line that has evolved during the 20th century. The development of both classical and popular musical styles is taught through in-class demonstrations, recordings, and videos.

Prerequisite: None

Length: Semester *Credits:* 2.5

616 Mixed Chorus – Promotes knowledge, interpretation, and performance of a high quality repertoire, appropriately chosen for the ability level of this mixed ensemble. The course is performance oriented with **required** participation in concerts and school/community events. Membership in Concert Chorus or Mixed Chorus, along with the recommendation of the choral director, is required of students planning to apply for New Jersey All-Shore Chorus or New Jersey All-State Chorus.

Prerequisite: None

Length: Year *Credits:* 5

617 Chime Ensemble – Develops basic musicianship through experience with hand chimes. This course promotes knowledge, interpretation, and performance of a high quality repertoire, appropriately chosen for the ability level of this non-audition elective. The course is oriented towards performance and **requires** participation in concerts and school/community events.

Prerequisite: None

Length: Semester *Credits:* 2.5

- 618 String Ensemble** – Explores the music of many periods and numerous styles. The ensemble is performance oriented and is inclusive of school concerts and performances at school/community functions. Attendance at school concerts is mandatory. Membership in String Ensemble, along with the recommendation of the orchestra director, may be required of students planning to audition for NJ Region or All State ensembles.
Prerequisite: Audition by appointment with the instructor
Length: Year *Credits:* 5
- 619 Acting** – Provides an opportunity for students to develop an understanding and appreciation for the specific processes inherent in the art of acting. Offered in unique semester cycles, the course explores the history and techniques associated with this craft. Cycle A outlines basic vocabulary, warm-up techniques, improvisation, script analysis and character development in short scene work and monologues. Cycle B reinforces and builds upon these skills while working with full-length contemporary comedic and dramatic scripts. Cycle C continues to address the basics while applying the techniques to classical, Shakespearean, and modern works, while Cycle D focuses on the actor as director, critic, and playwright. All cycles include vocational information for students hoping to pursue careers in theatre performance, production, and design. This course is intended for any individual wishing to develop poise, confidence, and improved speaking skills while working in a supportive, collaborative environment. Each semester, the acting classes showcase their skills in an evening performance. Due to the cyclical nature of the course, students may elect to take it multiple semesters. Cycles B & C will be offered in 2010-2011.
Prerequisite: None *Length:* Semester *Credits:* 2.5
- 158 Drama I** - Examines all aspects of modern drama including appreciation of the art form, history of the theater including the contemporary period, play production, and acting techniques.
Prerequisite: None *Length:* Semester *Credits:* 2.5
- 159 Drama II** – Explores the rich multi-cultural history of theatre including Eastern and Western forms of drama, Russian influences upon and the development of contemporary acting styles, and advanced study of improvisation and scene analysis.
Prerequisite: Drama I *Length:* Semester *Credits:* 2.5
- 610 Introduction to Music Theory** – Designed for students with no musical knowledge who wish to understand the fundamentals of music or those who wish to brush up on the basics of music theory. Students will be taught the first steps in music (the staff, notes, and rhythms) through to the complexities of scales, modes, and form. Additionally, students will learn sight reading, aural training, and the basics of dictation and composition.
Prerequisite: None *Length:* Semester *Credits:* 2.5

* *Television Production III* also qualifies as a Visual and Performing Arts requirement - (Description on Page 26)

WORLD LANGUAGES

Students have a one year graduation requirement; however, it is strongly recommended that college bound students complete a **minimum** of a two-year sequence of one language at the high school level. To demonstrate commitment to an academically challenging program, students should continue their study through levels 4 or 5.

- 401 French 1** - Introduces the French language with basic skill development in listening, reading, writing, and speaking. Grammatical focus: noun/adjective agreement, the concept of gender, verb tenses (present, near future, and past), and pronouns. The course includes vocabulary development and culture capsules.
Prerequisite: None *Length:* Year *Credits:* 5
- 402 French 2** - Reviews French I concepts with increased emphasis on skill building. Grammatical focus: present and past tenses of the indicative mood, object pronouns, adverbs, and adjectives. Cultural focus: comparison/contrast of lifestyles and traditions of Francophone countries.
Prerequisite: French 1 (≥73) *Length:* Year *Credits:* 5
- 403 French 3** - Emphasizes oral proficiency and listening skills. Grammatical focus: more structurally intensive with the addition of subjunctive review, future, and conditional verb tenses. Cultural focus: comparisons between American and French-speaking countries.
Prerequisite: French 2 (≥73) *Length:* Year *Credits:* 5
- 404 Honors French 4** - Increases emphasis on reading, speaking, and refining composition skills. Grammatical focus: indicative mood review including perfect tenses, present and past subjunctive, and pronouns. Cultural focus: literary extracts of French and Francophone authors, debates, films, discussion, novelette, and play.
Prerequisite: French 3 (≥80) *Length:* Year *Credits:* 5
- 405 Advanced Placement French** - Emphasizes linguistic development of vocabulary, advanced grammar, writing skills, speaking skills, and listening skills. Reading materials include classical and contemporary literature. Class discussion is based on current issues, reading materials, and videos. This course prepares students for the AP French Language Examination.
Prerequisite: Honors French 4 (≥80) *Length:* Year *Credits:* 5
- 410 Italian I** - Introduces the Italian language with basic skill and vocabulary development. Grammatical structures, including parts of speech, present and past verb tenses, and question-and-answer format are covered. Cultural topics, dialogues, and units on geography highlighting major Italian cities are also included.
Prerequisite: None *Length:* Year *Credits:* 5
- 411 Italian 2** - Reviews Italian 1 concepts with increased emphasis on skill building. Grammatical focus: vocabulary development, verb tenses and usage, object pronouns, adjectives, and increased proficiency in the target language. Cultural focus; Italian art and cuisine.
Prerequisite: Italian 1 (≥73) *Length:* Year *Credits:* 5

- 412 Italian 3** - Reviews Italian 2 concepts with increased emphasis on conversational and reading skills. Grammatical focus: vocabulary development, completion of verb tenses in the indicative mood, present and past subjunctives. Supplemental reading materials and readers will be used in addition to the basic text. Cultural focus: include Italian history and Italian opera.
Prerequisite: Italian 2 (≥73) *Length:* Year *Credits:* 5
- 413 Honors Italian 4** – Continues the study of the language’s sophisticated grammatical structures: the subjunctive mood, the passive voice, as well as finer points of grammar. This intermediate-advanced level language course also introduces students to selected literary works of Calvino, Collodi, and excerpts from Dante’s *Inferno*, in addition to a selection of short stories and poems. There is an increased emphasis on speaking and writing skills and on reading and listening comprehension through a variety of materials: Italian televised programs, newspapers, contemporary music, magazine articles, and language texts.
Prerequisite: Italian 3 (≥80) *Length:* Year *Credits:* 5
- 414 Advanced Placement Italian** – This is an advanced language and culture course that follows curriculum determined by the College Board and in which students study advanced grammar, read from a selection of fictional and non-fictional materials, and further develop their communicative skills. The course reflects current thinking regarding second language instruction and acquisition. Its aim is to develop listening, speaking, reading, and writing skills within a cultural frame of reference reflective of the richness of the Italian language and culture. The course will also focus on the structural aspects of the language while interweaving cultural content throughout the course.
Prerequisite: Honors Italian 4 (≥80) *Length:* Year *Credits:* 5
- 420 Latin I** - Introduces the Latin language and Roman culture. Vocabulary development through the knowledge of Latin roots, prefixes, and suffixes. The grammatical focus will be Latin word order, case usages, concepts of declension and conjugation; development of basic reading and writing skills in Latin through a continuous storyline which follows the adventures of the well-known Pompeian banker Lucius Caecilius Iucundus. Cultural focus: includes many real-life stories based in ancient Pompeii and Roman Britain.
Prerequisite: None *Length:* Year *Credits:* 5
- 421 Latin II** - Reviews comprehensively Latin I grammar and introduces Latin II concepts through the continuing story of Quintus Caecilius after his escape from the eruption of Vesuvius. The geographical focus will be Roman Britain and ancient Alexandria with a special emphasis on comparing and contrasting life in these very different corners of the Roman Empire during the 1st century C.E. Grammatical focus will be the subjunctive mood, participles, and infinitives with continued reinforcement of vocabulary development and translation techniques. Cultural focus: the Roman army, the Romano-British town of Aquae Sulis, Fishbourne Palace, socio-economic issues in Roman Britain and ancient Alexandria, the politics of conquest during the time of Domitian.
Prerequisite: Latin I (≥73) *Length:* Year *Credits:* 5
- 422 Latin III** – Combines a continuation of the storyline set in Rome along with actual selections from real Roman authors. Grammatical focus: comprehensive grammar review and continued vocabulary development. Literary focus: selections from personal letters, epic poetry, lyric poetry, history, and ancient epigrams. Cultural focus: the political and social aspects of the Roman Republic and Empire with special emphasis on main events spanning the Ciceronian Age, Augustan Age, and reigns of Domitian and Trajan.
Prerequisite: Latin II (≥73) *Length:* Year *Credits:* 5

423 Advanced Placement Vergil: Increased emphasis on reading and interpretation of Latin text. Students will follow the Advanced Placement Vergil syllabus outlined in the AP Vergil course description. Cultural focus: The myth of Troy and its influence, Roman history, the genre of epic poetry, Vergil's literacy contribution within the political and cultural setting of the Augustan Age.

Prerequisite: Latin III (≥80) or Honors Latin Seminar:
Catullus/Ovid/Horace (≥80)

Length: Year *Credits:* 5

Honors Latin Seminar: Catullus/Ovid/Horace will be offered the following year. (2011-2012)

432 Spanish I - Introduces the Spanish language with basic skill development and everyday vocabulary. Grammatical structures include parts of speech, present and past verb tenses, and question-and-answer format. Cultural topics and dialogues will be covered.

Prerequisite: None

Length: Year *Credits:* 5

433 Spanish 2 - Reviews Spanish I concepts with increased emphasis on skill building. Grammatical focus: present, preterit and imperfect tenses, object pronouns, and the present subjunctive mood. Cultural focus: Spanish-speaking people (U.S. and foreign countries), their interests, and pastimes.

Prerequisite: Spanish I (≥73 or Department
Recommendation)

Length: Year *Credits:* 5

434 Spanish 3 - Emphasizes speaking, reading, and writing. Grammatical focus: the subjunctive mood, the imperative mood, perfect tenses, future and conditional tenses. Cultural focus: literary extracts and vocabulary for everyday situations.

Prerequisite: Spanish 2 (≥73)

Length: Year *Credits:* 5

435 Honors Spanish 4 - Increases emphasis on reading, speaking, and refining composition skills. Grammatical focus: complete review of indicative verb tenses and present subjunctive mood, imperfect subjunctive and various fine grammatical points. Cultural focus: oral discussion and written analysis of Spanish plays and Latino literature, and art and current issues in the Spanish-speaking world.

Prerequisite: Spanish 3 (≥80)

Length: Year *Credits:* 5

436 Advanced Placement Spanish - Emphasizes linguistic development in vocabulary, advanced grammar, writing skills, speaking skills, and listening skills. Reading materials include classical and contemporary literature. Class discussion will be based on current issues, reading materials, and videos. This course prepares students for the AP Spanish Language Examination.

Prerequisite: Honors Spanish 4 (≥80)

Length: Year *Credits:* 5

450 Chinese 1 - Introduces the Chinese language with basic skill development and everyday vocabulary. Focus is on pinyin for phonetics, dialogues, basic grammar and introduction of Chinese characters. Cultural topics are included.

Prerequisite: None

Length: Year *Credits:* 5

451 Chinese 2 - Reviews Chinese 1 concepts with increased emphasis on skill building and character recognition. Grammatical focus: basic grammar, complex sentences, and dialogue development reflecting modern Chinese society and business. Cultural focus: calligraphy, customs, and art.

Prerequisite: Chinese 1 (≥73)

Length: Year *Credits:* 5

- 452 Chinese 3** – Emphasizes speaking, reading, and writing the language using Chinese characters. Grammatical focus: important components of grammar, including time clauses and conjunctions. Cultural focus: diverse Chinese cultures and beginning business Chinese.
Prerequisite: Chinese 2 (≥73) *Length:* Year *Credits:* 5
- 453 Honors Chinese 4** – Increases emphasis on reading, speaking, character recognition and writing, syntax building, text analysis, and composition skills. Cultural focus: short stories, extracts of Chinese writers, poems, newspaper ads, and oral discussion/presentations.
Prerequisite: Chinese 3 (≥80) *Length:* Year *Credits:* 5
- 454 Advanced Placement Chinese** – This course deepens students' immersion into the language & culture of the Chinese speaking world, and further develops their proficiency across the full range of language skills. General activities include conversation based on daily life activities, role plays, debates, oral reports, story telling and discussions of Chinese films.
Prerequisite: Honors Chinese 4 (≥80) *Length:* Year *Credits:* 5

English as a Second Language (ESL):

The English as a Second Language (ESL) program is designed to meet the needs of students whose native language is not English and whose proficiency in English is limited. The ESL Program emphasizes the acquisition of basic interpersonal communications skills (BICS) for successful social interaction and cognitive academic language proficiency (CALP) for success in the mainstream academic program. The ESL Program also seeks to foster a sense of self-confidence in ESL students, and to provide ESL students with an orientation to American culture while maintaining pride in their linguistic and cultural heritages.

To this end, students whose proficiency levels range from “0-5” receive “pull-out” instruction for one period each day of the week. Additionally, “0” proficiency level students are entitled to an additional period of ESL instruction daily. Furthermore, to provide additional support for ESL students, “push-in” support is provided in the content areas on an as needed basis.

The following summarizes the Holmdel Township Public School’s ESL Program goals:

- To expand and integrate knowledge across the curriculum
- To enhance communication skills
- To develop thinking and reasoning skills
- To cultivate interpersonal skills
- To provide an alternative transitional English program for the study of literature

Once each student has been tested using the Maculaitis II assessment instrument and a proficiency level assigned, students are scheduled to attend classes in a pull-out fashion, for one to two class periods per day. Additionally, students are supported by certified ESL teachers to provide “push-in” content based instruction focusing on language skills to enhance comprehension. Students in grades 9-12 may also take advantage of the Transitional English Program that allows them to study level appropriate literature with reinforcement of vocabulary and grammatical structure.

PHYSICAL EDUCATION AND HEALTH

Students must take one marking period of Health and three marking periods of Physical Education for each year enrolled in high school.

- 931 Health 9** – Emphasizes the students’ ability to understand plaguing health problems and, through understanding, develop positive behaviors that will reduce health risk. This course is designed to assist all students as they begin to enter young adulthood. This course teaches students how to be good citizens, form lasting relationships, and make sensible decisions. It covers topics referring to family life, sexually transmitted diseases, HIV/AIDS, nutrition, fitness, alcohol, tobacco, and drugs.
Available to Grade 9 only *Length: 1 marking period Credits: 1.25*
- 932 Driver’s Education** – Introduces students to Driver Education Theory, and is designed to help students become safe, knowledgeable drivers. Students learn the basic traffic laws and rules of the road that apply to common everyday driving situations. Introductory information on buying and insuring a car, the effects of alcohol and drugs on drivers, and the necessity of controlling emotions and attitudes, as related to the driving task, is also included. The New Jersey State Examination is administered. A unit on sexually transmitted diseases, including HIV/AIDS education has been incorporated.
Available to Grade 10 only *Length: 1 marking period Credits: 1.25*
- 933 Family Life** – Provides the opportunity to improve student’s knowledge and understanding of family life issues. This course is designed to inform and review life lessons with students. This course teaches the students about sexuality, reproduction, labor and delivery, and communications about sexual issues and relationships. Students focus on abstinence, birth control, STDs and HIV/AIDS. Mental Health issues as well as choosing the appropriate health providers are discussed.
Available to Grade 11 only *Length: 1 marking period Credits: 1.25*
- 934 First Aid and Safety** – Focuses on students recognizing emergencies and making appropriate decisions regarding first aid care and how to act on those decisions. After completing this course, the students are able to follow the emergency action steps, check or call CARE for any emergency. They can provide proper care for injury or sudden illness until medical help arrives.
Available to Grade 12 only *Length: 1 marking period Credits: 1.25*
- 935 Physical Education** – Provides all students the opportunity to choose a variety of physical education activities. These activities are designed to provide lifetime carryover skills and are used at 9th, 10th, 11th and 12th grade levels to introduce skills transferable between all activities. Each activity has goals of physical fitness, skill development and activity knowledge.
Prerequisite: None Length: 3 marking periods Credits: 3.75

While the Health and Physical Education courses are quarterly, the final grade will reflect the average as a full, 5-credit course.

EDUCATIONAL SUPPORT SERVICES

922-923 Basic Skills (BSIP) – Students are assigned to Educational Support Services as a result of their performance on the New Jersey Assessment of Skills and Knowledge (NJASK) or the High School Proficiency Assessment (HSPA). Specifically, when a student scores in the partially proficient range in language arts literacy and/or mathematics, remediation is required. In order to assist the student in strengthening literacy and mathematical skills, a Basic Skills Instructional Plan (BSIP) is developed through review and analysis of the student's performance data. Periodic consultation between the basic skills teacher and the academic teachers promotes student progress. Participation in the program is evaluated yearly for participating students.

Prerequisite: None

Length: Semester

Credits: 2.5

SENIOR OPTION

Seniors who are on pace to fulfill all graduation requirements may, at their option, elect to take six (6) classes per semester instead of the customary seven (7). For these students, **Senior Option** will appear as the first period class on their schedules.



SPECIAL SERVICES

The mission of the Special Services Department in the Holmdel School District is to maximize, through the offering of a range of educational programs and/or related services in accordance with individual needs, student success in the general education program and on state assessments required for graduation.

The Special Services Department at Holmdel High School supports this mission by cultivating an educational setting that provides students with enriching learning experiences, and by ensuring that any accommodations made are consistent with the identified needs of students, are reflected in their Individualized Education Plans (IEPs), and are implemented cohesively into their educational program.

To facilitate the execution of this mission, services are designed for students in the context of the least restrictive environment and include a continuum of placement options such as general class placements with support, resource centers, special class programs, and specialized placements. The frequency and duration of a student's participation in each of the aforementioned programs are based on the identified needs of the Individualized Educational Plan. Additionally, and where appropriate, students with Individualized Educational Plans may also participate on a part-time basis in vocational programs offered by the Monmouth County Vocational School System.

The Holmdel School District recognizes its obligation to assist all students in preparing for a successful transition to community life. Similarly, it acknowledges that some students need an extended period of time to develop these skills, and in a familiar, supportive environment. To that end, the Special Services Department makes available to those students with Individualized Educational Plans the **STRIVE** program. The **STRIVE (Student Transition Readiness Independent Vocational Experience)** program seeks to assist students in developing the basic job skills and behaviors necessary for a successful transition to community life. The **STRIVE** program exists currently in realistic vocational environments within the Holmdel district, but with the hope of eventually expanding into community-based environments.

For more detailed information about the **STRIVE** program, or about any other related services and/or instructional offerings, please contact the Special Services Department directly (732-946-1186).

VOCATIONAL EDUCATION

(Courses below fulfill the graduation requirement for Tech Literacy, Career Ed, and Life Skills or Vocational/Technical Education)

SHARED-TIME PROGRAMS

The Monmouth County Vocational School District offers a variety of programs and courses to residents of Monmouth County. High school students may choose from a variety of courses in the shared-time program or apply for admission into one of the full time schools administered by the District. All programs are designed for youngsters who have an expressed interest in a particular area of study. Shared-time programs offer vocational and employment training in a specific field while the full time programs offer a full diploma program emphasizing a particular field of study.

Students must be entering the 11th grade to elect one of the vocational programs listed below, except Career Center, which is available to students in grades 9 and 10. These two-year programs are taught at ten locations in Monmouth County. Vocational students take their academic courses at Holmdel High School during one-half of the school day and their vocational courses at an alternate location during the other half of the school day. Transportation is provided by the Holmdel School District.

Prerequisite: Application required and visit to Vocational School
 Generally, Grades 11 and 12 *Length:* 2 years *Credits:* 17½ - 20/year*

Vocational Specialties include:

- Computer Information Technology
- Carpentry
- Residential & Commercial Plumbing
- Electricity
- Auto Body
- Diesel Mechanics
- Marine & Engine Boat Repair
- Auto Mechanics
- Dental Assistant
- Patient Care/Medical Assistant
- Health Occupation/Dietary Aide
- Commercial Art
- Cosmetology
- Culinary Arts
- Graphic Arts
- Cisco Networking
- Nursing Assistant

Credits awarded as follows:

	<u>Vocational School</u>	<u>Career Center</u>
➤ Applied Science	5 credits	2.5 credits
➤ Applied Math	5 credits	2.5 credits
➤ Vocational Specialty	10 credits	12.5 credits

TECH PREP PROGRAMS

Tech Prep 2 + 2 is a concept in schools offering a combination of academic and vocational experience. The program provides the student with marketable skills for employment in competitive technological areas. Students not only learn the trade and technical skills in their chosen specialty, they also study mathematics and science as they relate to those areas. The science courses offered include: Chemistry, Physics, Anatomy & Physiology, Environmental Science, and Nutrition. Mathematics courses include Algebra II, Statistics, Advanced Technical Mathematics and Management Mathematics. The specific courses taken will depend on the program selected.

The Tech Prep 2 + 2 programs are administered by the Monmouth County Vocational School District in cooperation with Brookdale Community College. The four year sequential program is designed to begin in the junior year of high school, culminating with an Associate Degree. These courses offer the student a unique opportunity to gain college credit while still in high school. Students successfully completing the program will be guaranteed acceptance into the Associate Degree Program in their specialization at Brookdale Community College.

Offerings in this program include:

- Cosmetology
- Law Enforcement
- Visual Communications
- Advanced Networking
- Electricity/Telecommunications
- Heating, Ventilation & Air Conditioning
- Allied Health
- Auto Mechanics

Prerequisite: Junior class standing and completed application to program.

CAREER ACADEMIES

The Career Academies offer four-year, full-time programs. The academies include Academy of Allied Health and Science, the High Technology High School, the Marine Academy of Science and Technology, the Communications High School, and the Biotechnology High School. Students will apply to these academies through the Monmouth County Vocational School District during eighth grade. Students interested in these programs should go to the website at www.mcvsd.org.

ACADEMY OF ALLIED HEALTH SCIENCE

The Monmouth County Academy of Allied Health Science (MCAAHS) offers a college preparatory program with an emphasis on medical technology, mathematics and science. The school provides an exemplary learning experience for students in these areas and related fields. Students are selected through a competitive process and enter at the ninth grade level. MCAAHS is located in Neptune in proximity to several medical facilities and organizations. Students will be provided with unique learning experiences facilitated by medical specialists at the school and in medical facilities. Students follow a block schedule for all classes since this provides an atmosphere similar to that found in colleges. The graduation requirements include: English, history, mathematics, foreign language, physical education, computer literacy and health sciences.

Prerequisite: Applications reviewed by Academy of Allied Health Science

HIGH TECHNOLOGY HIGH SCHOOL

The High Technology High School is located on the Brookdale Community College campus. This career academy emphasizes excellence in math, science and technology. This is a comprehensive engineering preparatory program.

The students and teachers work in an environment where all prescribed subjects are interconnected and related through technology. High Technology High School expects its students to work to their full potential. The school day is block scheduled where no two days are the same in a week. English, foreign languages, math, physical education, science, social studies and technologies are required every year of attendance for all students. Admittance into the program is through a competitive process, equally distributed through all communities in Monmouth County.

Prerequisite: Applications reviewed by High Tech High School

MARINE ACADEMY OF SCIENCE AND TECHNOLOGY

The Marine Academy of Science and Technology (MAST) is a four-year high school diploma granting program. It is located on Sandy Hook. This program emphasizes excellence in all academic areas and provides specialized marine education. Students apply and are selected on a competitive basis.

All classes are block scheduled since this provides an atmosphere conducive for academic success. All students will be enrolled in college preparatory classes. Graduation requirements include: English, history, mathematics, marine science, naval science, foreign language and choices of marine technology or marine science elective courses.

After the freshman year students will take classes from a variety of courses in the marine science and technology fields.

Naval Junior Reserve Officers Training Corps – All students are required to participate in the NJROTC unit. The program complements the marine curricula and provides leadership training. Twice weekly, students wear uniforms provided by the United States Navy.

Prerequisite: Applications reviewed by MAST.

COMMUNICATIONS HIGH SCHOOL

The Communications High provides a college preparatory program with an emphasis on communication in the areas of interactive digital media, publishing, digital printing, commercial art and computer networking. The school serves the community by providing an exemplary learning experience for students in those areas and related fields. Students apply and are selected on a competitive basis.

Prerequisite: Applications reviewed by the Communications High School

BIOTECHNOLOGY HIGH SCHOOL

Biotechnology High School opened in the fall of 2005, with a freshman class. It provides a college preparatory program with an emphasis on research, relevant lab skills, critical thinking, problem solving, communication, and ethics. Thematic areas include biomedical, pharmaceutical, environmental, and ag-science.

In each of their four years students will take a compliment of courses which will be a combination of required and elective courses, and include industry-based experience. The schedule allows for team teaching and for the integration of current issues and industry trends throughout the curriculum. The first two years will be made of core courses.

Prerequisite: Applications reviewed by Biotechnology High School.

Special Private Offering
ARTS HIGH SCHOOL

The Arts High School program is a private, special release-time program for gifted and talented children. Students interested in joining the program must audition to participate. It is administered by the Arts & Education Center which for 24 years has been operating a similar program for school districts in Middlesex County, NJ. Monmouth County students from selected public school districts will be able to participate in this innovative and celebrated program. The Monmouth County Arts High is housed at the Brookdale Bayshore Campus in Keansburg, NJ.

Interested students would file an application with the Arts High School office before the November deadline. Applications are available in September and October from the Arts High School office. Schedule of classes start in January and are held on Mondays from 1-4pm and continue for 14 weeks.

Please understand that the parent is responsible for the tuition required to enroll in the Arts High School.

DUAL ENROLLMENT PROGRAM
Release time to earn 12-18 college credits:

1. Prerequisites:
 - Accumulation of 100 credits prior to senior year
 - Pass the High School Proficiency Assessment
2. Enroll in at least three consecutive courses at HHS – first three periods or last three periods of the school day.
3. Enroll in a sequence of courses at HHS which when combined with college courses will fulfill our graduation requirement.
4. Secure prior written approval by counselor and department supervisor in order to have college courses appear on our transcript and receive HHS credit. (Each 3 or 4 credit course will count as 5 HHS credits and will not be included in the GPA.)
5. Register for a minimum of six college credits per semester in an accredited college. Adhere to admissions criteria for a specific college, i.e., Accuplacer placement test for appropriate placement in Brookdale Community College courses.
6. Parents are responsible for tuition, fees, books, and transportation.
7. Parents sign a contract which outlines conditions and responsibilities of parents, student and the school district.

ATHLETIC ELIGIBILITY REQUIREMENTS

All students at Holmdel High School wishing to participate in athletic programs under the sponsorship of the school are subject to the New Jersey State Interscholastic Athletic Association eligibility requirements. Failure to meet these requirements prohibits participation in the athletic programs. These eligibility requirements are not applicable to classified students; eligibility is determined by the IEP and the decision of the Child Study Team. These eligibility requirements may be superseded by specific rules and decisions of the Shore Conference of High Schools and the NJSIAA, in which Holmdel High School holds membership.

1. An entering Freshman is automatically eligible for fall and winter athletic programs in the school.
2. A student must pass at least 27.5 credits (six courses) each year to be eligible for the athletic program in the first semester of the succeeding year. Summer school credits are applied to the immediately preceding school year.
3. A student must pass 13.75 credits (six courses) during the first semester to be eligible for any program that begins in the second semester (spring session).
4. A student, once eligible for a sport, is entitled to continuous participation until that specific sports season concludes.
5. Any student who reaches the age of 19 prior to September 1st will not be eligible to participate in the athletic program under NJSIAA rules and regulations.
6. Consideration of gender, religion, race or politics shall not prohibit participation in athletic programs.
7. Students should be aware that in order to participate on a collegiate level in NCAA Division I or II athletics, their high school records must be evaluated by the NCAA Clearinghouse. There are very specific standards which must be met including a minimum number of academic courses and a minimum GPA which are correlated with SAT results.

PROMOTION POLICY

Grade assignment is determined by accumulation of credits. Although grade designation is largely for administrative purposes, it does have some impact on students regarding homeroom placement, the class meetings attended and state reporting. Below are listed the credits necessary for each grade placement:

Grade 10	30 Credits Minimum
Grade 11	60 Credits Minimum
Grade 12	90 Credits Minimum

SUMMER SCHOOL

Prior approval is needed before enrolling in any summer school course

LOSS OF CREDIT DUE TO FAILURE	LOSS OF CREDIT DUE TO EXCESSIVE ABSENCES OR CUTS	REVIEW COURSE FOR THE PURPOSES OF PLACEMENT ONLY*
Prior approval from Guidance	Prior approval from Guidance	Prior approval from the Department Supervisor
State accredited HS program (60 hrs) or college course	State accredited HS program (60 hrs) or college course	State accredited HS program (60 hrs) or college course
Private instruction not acceptable	Private instruction not acceptable	Private instruction by certified teacher (min. 30 hrs)
No District Test required	No District Test required	District Test required prior to August 15; must meet course criteria
Course grade listed on transcript and calculated as part of GPA	Completion certificate included in student folder; course listed on transcript; grade listed and calculated as part of GPA	Completion certificate included in student folder No grade, no credit

*For students who do not meet the prerequisite for the **next** sequential course.

