

Curriculum Guide



Welcome to the 2011-2012 School Year



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North Hunterdon-Voorhees Regional High School District

Our Mission:

The North Hunterdon-Voorhees Regional High School District, a district committed to innovation, personal excellence, high achievement, and community partnership, provides all students with personalized opportunities through a broad spectrum of exemplary educational experiences to develop their fullest potential, to foster lifelong learning, and to become responsible citizens in a continually changing society.

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Louis Pennucci - 2011

Califon/Tewksbury
Deborah Close - 2011
Nicholas Nacamuli - 2012

Union Township
Monica Gondek - 2012
John Kulick, Ph.D. - 2013

Bethlehem/Hampton/Glen Gardner
Debra Roosen - 2011
Francis Goger - 2013

Clinton Township /Lebanon Borough
Beverly Thorne - 2012
(Vice President)
Roger Straight – 2013
Sandra Seidorf - 2011
Barbara Walter - 2011
(President)

High Bridge/Lebanon Township
Garry Peabody - 2012
Carol Anne Mates - 2013

AFFIRMATIVE ACTION

It is the policy of the North Hunterdon and Voorhees High School District not to discriminate on the basis of race, color, creed, religion, sex, ancestry, national origin, social or economic status in its educational programs or activities and employment policies as is required by Title IX of the Educational Amendments of 1972 and NJAC 6.4-1.1.

INTRODUCTION GUIDANCE

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WHY A CURRICULUM GUIDE?

The faculty and administration of Voorhees and North Hunterdon High Schools have designed this guide as an aid in planning your academic program. Our course offerings provide a wide variety of learning opportunities and require you to make discriminating selections because decision making is an important part of the total learning process. The offerings should be carefully reviewed by parents and students in consultation with counselors and teachers in order to create a schedule which will best meet the needs and goals of each individual student. Counselors will meet with students to discuss course options and the scheduling process.

USING THE GUIDE

In planning your high school program, you must be realistic about the courses you select in terms of your

goals, abilities, interests, and past performance. You must also look at this year's choices as part of a total four year sequence.

Since we offer a wide variety of courses in each department, it is extremely important that you and your parents/guardians consult your counselor to be sure the courses you select will be the best ones for achieving your goals. You may arrange parental conferences by calling the Counseling Centers at Voorhees High School at 638-2130 and North Hunterdon High School at 713-4130.

This guide contains a brief summary of each course with notations about credits, length, pre-requisites, and content. Course selections for the entire year must be made now.

In deciding upon the level placement, please be reminded that placement is determined by performance. In order to move up a level (CP to Honors or Honors to AP, etc.), a student must have a grade of A, or a B and a teacher's recommendation in current level course. In order to maintain a level, a student must have a grade of C or better in current course level. Placements will be based upon students grades at the midterm, however, students may petition to move up should grades improve by the end of the third marking period.

Low enrollments or budgeting limitations may prevent certain listed courses from running during a particular year. The master schedule is built on initial student requests; accommodating scheduling changes requested at a later time is extremely difficult. Once scheduling is completed, students may request additional classes that have space available during their scheduled study halls.

CRITERIA FOR CHANGING STUDENT SCHEDULES

Students are expected to honor their commitments by attending and satisfactorily completing the courses for which they enroll.

Schedule changes will not be made for reasons of convenience or because of teacher preference. Only changes which are educationally beneficial for the student will be considered.

Schedule changes will be considered only for the following reasons:

1. The correction of a clerical error in the schedule. Examples might include a missing course, a conflict between two or more courses, failure of a prerequisite course or a serious imbalance in the course load assigned for each semester.
2. A recommendation from the Child Study Team.
3. A recommendation from a building administrator for disciplinary, attendance or instructional reasons.*
4. If a student is repeating a course and is assigned to a teacher with whom he or she previously received a failing grade.
5. A student wishing to take additional courses which do not entail the dropping of any other course.
6. A teacher recommends a change based on the fact that the student is misplaced in a particular course or that a change in level would be beneficial to the student. This must be done in consultation with the counselor and with the approval of the Department Chairperson.

*Schedules changed according to this criterion may result in a grade of WF (Withdrew Failing), which is computed for grade point average as a failing grade.

If a course is dropped according to the other criteria (i.e. #1, 2, 4, 5, or 6), the grade will be a WP (Withdrew Passing).

Schedule changes will not be considered for any of the following reasons:

1. Course content or standards differing from student expectation.
2. Dropping a course because it is not needed for graduation.
3. Inability of a student to relate well to a given teacher.

4. Preference for some other subject.
5. Dropping a course in order to lighten one's load.

GUIDE ABBREVIATIONS

CP – College Preparatory
H – Honors
Cr. – Credits
wks. – Weeks
Wt. – Weighted
AP – Advanced Placement
Sug. Pre – Suggested Prerequisites
V – Voorhees Only
N – North Only
N/V – North and Voorhees
HSPA – High School Proficiency Assessment

AWARD OF DIPLOMA

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In attempting to prepare students for American society and to define the needs of each citizen of our society, the Board of Education has established the following graduation requirements:

I. Successful completion of 120 credits including the following:

ENGLISH – 20 credits

(English I, English II, English III and English IV are required.)

ADVANCED ACADEMIC LITERACIES – 2.5 credits

FINANCIAL LITERACY – 2.5 credits (class of 2014)

PHYSICAL EDUCATION, HEALTH and SAFETY – 20 credits

As required by New Jersey Administrative Code.

MATHEMATICS – 15 credits

(5 credits must be in Algebra).

SOCIAL STUDIES – 15 credits (World History, American History I, American History II)

SCIENCE – 15 credits, 5 credits in each Physics, Chemistry, and Biology are recommended

FINE ARTS (ART, MUSIC) & PRACTICAL ARTS – 10 credits total with a 5.0 credit minimum for each of the two areas

WORLD LANGUAGES – 10 credits required. Credit must be consecutive years in the same language.

II. HSPA – High School Proficiency Assessment

All students must pass the High School Proficiency Assessment (HSPA) administered by the state of New Jersey. Passing the HSPA is mandated by the State of New Jersey. Passing an End of Course Assessment in a particular subject area, such as Algebra, may also be required.

Athletic Eligibility It is every student athlete's responsibility to check his/her schedule to be sure that they are passing at least 15 credits during the fall semester for spring sports and 30 credits during the previous school year for fall and winter sports to meet school board athletic eligibility requirements.

PREPARING FOR COLLEGE ADMISSION TESTS

In addition to academic courses, both schools offer preparatory sessions for college admissions tests. Students should contact their counselors for information regarding these programs.

PREPARING FOR COLLEGE

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Since entrance requirements vary among colleges, we recommend that college bound students take the strongest academic program possible, consistent with their ability to perform at an acceptable level.

PERFORMANCE (THE HIGH SCHOOL RECORD) RATHER THAN POTENTIAL IS STILL THE SINGLE MOST IMPORTANT INDICATOR USED BY COLLEGES IN THE SELECTION PROCESS.

At many schools the stated minimum entrance requirements are often not sufficient for admission because of the competitiveness of the admissions.

CONSULT THE SPECIFIC COLLEGE CATALOGUES FOR MORE DETAILS, AND BE SURE TO USE THE NAVIANCE COLLEGE AND CAREER PLANNING TOOLS AVAILABLE TO ALL OUR STUDENTS.*

*For Voorhees High School the web address is <http://connection.naviance.com/voorhees>. You may sign in using your user name & password or as a guest. For guest, the user name is "guest" and the password is "vhs" (lower case for both).

*For North Hunterdon go to North Hunterdon guidance department website & look up college searching. You may sign in using your user name & password or as a guest. For guest, the user name is "guest" and the password is "nhhs" (lower case for both).

OPPORTUNITIES FOR ADVANCED STUDY AND OTHER OPTIONS

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ADVANCED PLACEMENT

Advanced standing in college via awarding of credit and/or placement may be possible by taking Advanced Placement courses and performing successfully on the Advanced Placement Examinations administered by Educational Testing Service in May. Advanced Placement courses are college level courses (not merely college preparatory). A score of 4 or 5 on a scale of 1 to 5 may result in placement and/or credit as determined by the college the student attends.

Students enrolled in Advanced Placement courses are encouraged to take all the appropriate AP Examinations.

Please see the course descriptions under the departmental headings for more information. Students who participate in the entire AP experience including the AP exam will receive AP/Wt. Students who successfully pass an AP course but do not participate in the AP exam will receive (H/Wt.) for GPA calculation

Independent Study and Cooperatively Planned Units

Students may encounter situations in which a desired course does not meet at a time available in the individual's schedule. In these situations, an independent study contract may be written which provides a plan for students to complete requirements for a particular course. A sponsoring teacher must agree to supervise the independent study project and it must be approved by the department chairperson, guidance counselor, parent and Assistant Principal. In rare situations, a student may desire a course not offered in the Curriculum Guide. Cooperatively Planned Units are designed with a specific vocational objective such as a community service project or an apprenticeship sponsored by a teacher within the school. The procedures for developing Cooperatively Planned Unit contracts are similar to those used for Independent Study. Independent Study contracts & CPUs will not be approved for required courses. No Independent Study course or CPU can be weighted as per school board policy.

Weighted Courses

All Honors and AP courses are weighted. This means that upon successful completion a student may obtain a grade advantage for purposes of GPA. Expectations for student performance in honors and AP courses are much higher than general and CP level courses.

Early Graduation

It may be possible to graduate after the first half of the senior year, with careful advance planning. Students must declare their intent to graduate mid-year during scheduling of courses in the spring of the junior year. Parent approval is required.

Freshman Electives Credits:

069 Small Engines I (N) 2.5	118 Drawing I 2.5
070 Small Engines II (N) 2.5	119 Drawing II 2.5
072 Landscape Design 2.5	156 Business Sports Management 2.5
103 Color and Design 2.5	171 Business Computer Applications I 2.5
113 Ceramics I 2.5	492 Webpage Design/ Animation 2.5
114 Ceramics II 2.5	542 Computer Applications 2.5
172 Business Computer Applications II 2.5	545 Intro. to JAVA 2.5 (Prerequisite-Algebra 1)
400 Food Survey (V) 2.5	580 History of Rock & Roll 2.5
408 Food & Fitness (V) 2.5	585 Music Theory 2.5
412 Fashion Design/ Merchandising 2.5	588 Electronic Music 1 2.5
413 Sewing For Fashion 2.5	589 Electronic Music 2 2.5
424 Interior Design 2.5	591 Freshman Band 5.0
429 Child Care Survey 2.5	592 String Ensemble 5.0
430 Child Development & Parenting 2.5	599 Jazz Ensemble 2.5
450 Drafting and Design 2.5	600 Beginning Instrumental Lessons 1.0
453 Engineering/CAD I 2.5	601 Advanced Instrumental Lessons 1.0
457 Architectural Drafting and Design I 2.5	609 Voice Lessons 1.0
484 Applied Technology and Design (N) 2.5	611 Freshman Choir 5.0
490 Graphic Communication	

COURSE OFFERINGS BY DEPARTMENT

NV Elective offerings contingent upon enrollment, staffing & facility space.

INTRODUCTION

All students are required to complete 5 credits of the Fine Arts to fulfill their Fine/Performing Arts graduation requirement.

The arts are an important part of each student's education; they afford students the opportunity to learn new methods of communication and self expression in a visual world. Working visually develops perception, risk taking and creative skills. The arts can encourage critical and analytic thinking, extremely important to today's society.

ART (Fine Arts)

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103 COLOR AND DESIGN Gr. 9-12 2.5 cr., 18 wks

This introductory art course focuses on basic drawing and design principles through the use of a variety of art media including pencil, pen and ink, paint and more. Students increase their technical skills while learning to recognize and solve visual problems. Some basic digital image manipulation will be explored.

112 3 DIMENSIONAL ART Gr. 10-12 2.5 cr., 18 wks

This course will explore the creative use of art materials to make three dimensional works. Students will have the opportunity to manipulate materials and building techniques, in this course and learn about the history of sculpture.

113 CERAMICS I Gr. 9-12 2.5 cr., 18 wks

In this introductory ceramics class, students will explore various construction techniques and learn the properties of clay. The fundamentals of hand building and wheel throwing will be taught. Students will also learn to glaze their finished pieces.

114 CERAMICS II Gr. 9-12 2.5 cr., 18 wks

Prerequisite: Ceramics I

Students will continue to develop techniques and skills learned in Ceramics I. Although students will continue to improve hand building techniques, emphasis will be on developing skill on the pottery wheel. Design and specialized throwing procedures will be stressed.

115 CERAMICS IIIA Gr. 10-12 2.5 cr., 18 wks

116 CERAMICS IIIB Gr. 10-12 5.0 cr., 36 wks

Prerequisite: Students must complete Ceramics II or be admitted by permission of instructor.

This advanced level course will continue to develop techniques and skills learned in Ceramics II. Each student will create their own program that will enable them to concentrate on a specific area of interest.

117 CERAMICS IV Gr. 10-12 5 cr., 36 wks

Prerequisite: Students must complete Ceramics III or be admitted by permission of the instructor.

An advanced level course that continues to develop more involved techniques and skills. Each student is encouraged to concentrate on a specific area of interest.

130 YEARBOOK PRODUCTION I Gr. 10-12 5 cr., 36 wks

Yearbook Production enables the student to gain “hands-on” experience in the following areas: Photography, design, layout, advertising, and writing copy.

Students will be involved in working positions as part of the yearbook staff. Students will also be responsible for making decisions regarding the production of the yearbook.

Any student interested in becoming a yearbook editor should take Yearbook as a sophomore or junior so they can qualify for an Editor position in Yearbook Production II.

****Note:** In order to take yearbook courses, students must complete an application obtained from guidance and be interviewed and accepted by the instructor. Spaces will be awarded on completed application, interview and teacher recommendation.

131 YEARBOOK PRODUCTION II Gr. 11-12 5 cr., 36 wks

Prerequisite: Yearbook Production I

Students will further develop the desktop publishing skills they acquired in Yearbook Production I including: layout design, copywriting and editing, photography, and digital image editing. Students will play an active role in the organizational aspects involved in planning and producing the yearbook. Students taking this course will develop leadership skills through serving in editor positions. The positions of editor-in-chief, section editors, and photo editors will be awarded to the students enrolled in this class.

132 Yearbook Production 3 – Independent Study

Prerequisite: Yearbook 1 & 2 an application must be submitted for this course.

This course is for the student who would like to continue working on the yearbook and has taken both Yearbook 1 & 2 and has submitted an application to the course instructor. The successful Yearbook 3 student will be an independent worker and a leader interested in publishing and production.

118 DRAWING I Gr. 9-12 2.5 cr., 18 wks

In this introductory drawing class students will learn the fundamentals of drawing. Techniques and skills will be taught while students explore the Elements of Design.

119 DRAWING II Gr. 9-12 2.5 cr., 18 wks

Prerequisite: Drawing I

This course is for students with an interest in drawing beyond an introductory level. In this course students will explore drawing further; through in depth projects developing more advanced drawing skills including figure drawing, landscape, still life and more.

120 DRAWING III Gr. 10-12 5 cr., 36 wks

Prerequisite: Drawing II

Designed for students who would like to move their drawing skills to a more advanced level, this class is for the art student interested in building a drawing portfolio. Drawing materials and techniques will be further explored through a variety of projects.

Prerequisite: Students must submit a portfolio, have taken at least one drawing course, or may be admitted by permission of instructor.

121 DRAWING IV Gr. 11-12 (N) 5 cr., 36 wks

Prerequisite: Drawing III

Portfolio development and advanced drawing techniques combined with challenging subject matter will be emphasized.

122 PAINTING I Gr. 10-12 2.5 cr., 18 wks

In this course students will learn the fundamentals of painting including techniques and materials. Lessons are

taught to develop both drawing and painting skills; a variety of different painting media will be explored.

123 PAINTING II Gr. 10-12 2.5 cr., 18 wks

Prerequisite: Painting I

Painting II is a secondary level course for those students who wish to continue their study of painting through the use of varying mediums and techniques. Historical reference, style and expressive quality will be the focus of this course.

124 THEMES IN ART Gr. 9-12 2.5 cr., 18 wks

This introductory art history course focuses on basic understanding of art and its' relevance to history. This is a combination research/ studio course that allows students to study art history and experience it through project based artistic creations.

125 AP HISTORY OF ART (H/Wt.) (AP/Wt.)

Gr. 11-12 5 cr., 36 wk

Prerequisite: Students must carry at least a "B" average in both English and History classes or may be admitted by permission of instructor.

This course gives students a broad understanding of past and present cultures through the study of painting, sculpture, and architecture. Power Points, lectures, group & independent projects will be used to illustrate how specific cultures developed and how individual artists contributed to that development. Students will become familiar with the major artists and art movements.

No prior experience in Art History is necessary for those students taking this course. Students who have done well in other humanistic studies, such as, history, literature, foreign language, and art are especially encouraged to enroll.

126 AP DRAWING PORTFOLIO (H/Wt.) (AP/Wt.) Gr. 11-12 5 cr., 36 wk

Prerequisite: Students must submit a portfolio or may be admitted by permission of instructor. An application must be submitted for this course.

The Drawing Portfolio is designed to address a broad interpretation of drawing issues. Students will be required to produce quality pieces that demonstrate advanced concept, composition, and technical skill. Students will produce pieces based on realistic, observational drawing as well as abstract and design concepts. Students will have the option of working in a variety of drawing and painting media.

The final outcome of this course will be a portfolio that could be reviewed and rated by the Advanced Placement Examination Committee.

127 AP 2-D DESIGN PORTFOLIO (H/Wt.) (AP/Wt.) Gr. 11-12 5 cr., 36 wks

Prerequisite: Students must submit a portfolio or may be admitted by permission of instructor. An application must be submitted for this course.

This portfolio is intended to address a very broad interpretation of two dimensional (2-D) design issues. This type of design involves purposeful decision-making about how to use the elements of design (line, shape, illusion of space, illusion of motion, pattern, texture, value, and color) and the principals of design (unity/variety, balance, emphasis, rhythm, and proportion/scale) to communicate ideas.

For this portfolio, students are asked to demonstrate proficiency in 2-D design using a variety of forms. These could include, but not limited to, graphic design, typography, digital imaging, photography, collage, fabric design, weaving, illustration, painting, printmaking, etc. A variety of approaches to representation, abstraction and expression may be part of the student's portfolio.

The final outcome of this course will be a portfolio that could be reviewed and rated by the Advanced Placement Examination Committee.

128 AP 3-D DESIGN PORTFOLIO (H/Wt.) (AP/Wt.) Gr. 11-12 5 cr., 36 wks

Prerequisite: Color and Design, Drawing I and II, or by permission of instructor. An application must be submitted for this course.

This portfolio is intended to address a broad interpretation of sculptural and three-dimensional issues in depth and space. These may include mass, volume, form, plane, light and texture. Such elements and concepts may be articulated through additive, subtractive, and/or fabrication processes.

A variety of approaches to representation, abstraction and expression may be part of the student's portfolio. These might include traditional sculpture, architectural models, apparel, ceramics, three-dimensional fiber arts or metal work, among others.

The final outcome of this course will be a portfolio that could be reviewed and rated by the Advanced Placement Examination Committee.

139 VIDEO PRODUCTION I Gr. 10-12 2.5 cr., 18 wks

In this course students become familiar with the television studio and the video format. Movement, lighting, editing and video techniques are emphasized and explored through the live action projects.

140 VIDEO PRODUCTION II Gr. 10-12 2.5 cr., 18 wks

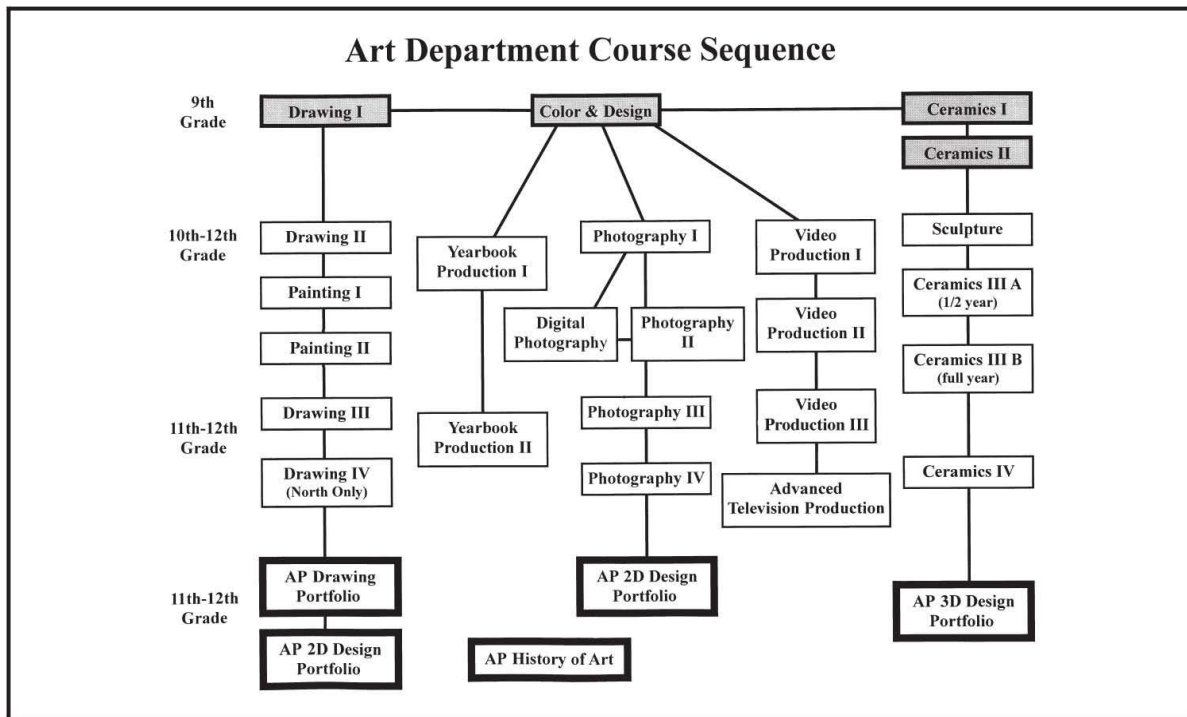
Prerequisite: Students must complete Video Production I or be admitted by permission of instructor.

Students will continue to explore and experiment with the video medium through individual video projects. Special attention will now be given to the development of more involved live action video projects.

142 VIDEO PRODUCTION III Gr. 11-12 2.5 cr., 18 wks

Prerequisite: Students must complete Video Production I and Video Production II or be admitted by permission of the instructor.

In this course students will continue to explore and experiment with the video medium through individual and group projects. This course requires the operational mechanics of storyboarding, planning and filming with an emphasis on non-linear video editing to produce professional quality projects.



143 ADVANCED TELEVISION PRODUCTION Gr. 11-12 5 cr., 36 wks

Prerequisite: Students must complete Video Production I and Video Production II or be admitted by permission of the instructor.

Students will continue to explore and experiment with the television medium through teamwork in a professional setting. Students must work together to conceive, plan and execute a format for a television program to be broadcast at a regular basis

(i.e. daily, weekly, bi-weekly, depending on the complexity of the student devised format). Special attention will now be given to the entire process of pre-production, production and post-production.

146 PHOTOGRAPHY I Gr. 10-12 2.5 cr., 18 wks

In this course students will learn to use both digital and film cameras, learning to develop and print 35 MM film in the darkroom, and will learn to edit digital photos using Adobe Photoshop. Basic photographic techniques will be explored through a variety of projects.

147 PHOTOGRAPHY II Gr. 10-12 2.5 cr., 18 wks

Prerequisite: Photography I.

Using the basic elements of photography, and building on what students have learned in Photography 1, students will further explore photography as an expressive art making medium. Both digital and darkroom photography will be explored.

148 PHOTOGRAPHY III Gr. 11-12 5 cr., 36 wks

Prerequisite: Photography II.

This course offers opportunities for the highly motivated individual to work on an advanced level in photography. The students will experiment with advanced techniques, in lighting and composition.

Digital imaging and manipulation will be explored in this class using Photoshop.

149 PHOTOGRAPHY IV Gr. 11-12 5 cr., 36 wks

Prerequisite: Photography III

An advanced level course designed for students who want a vigorous and challenging experience in photography.

150 DIGITAL PHOTOGRAPHY Gr. 10-12 2.5 cr., 18 wks

Prerequisite: Photography I or permission of instructor

Students use digital cameras, scanners, imaging software, printers and computers to explore the artistic potential of new imaging technology and solve visual problems. Students will learn how to plan and produce digital images that demonstrate an understanding of composition, light, color, visual impact and art history. Hands-on projects include digital painting, digital photography, image capture, image manipulation through Photoshop and graphic design problems.

BUSINESS

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Independence, pride, money. You can gain it all through the courses offered in the Business Education Department.

The main objectives of Business Education are to develop, in each student, the knowledge and skill needed for college, entry-level employment and for advancement in a business career.

All students should have the opportunity to gain the knowledge, attitudes, and skills needed to be effective in their personal money management and in their understanding of our economic system.

Business education has a great deal to offer you – relevant, challenging and exciting classes taught on computers using Microsoft Office. Business Education – it makes sense.

Any successfully completed course in this department can be used to fulfill the graduation requirement for PRACTICAL ARTS.

155 FUNDAMENTALS OF MONEY MANAGEMENT Gr. 11-12 2.5 cr., 18 wks

This course will provide students with the information important in managing their personal finances. Students will learn how to evaluate the risks involved in making financial decisions and how to develop and implement a sound financial plan.

Instruction will also include, how to use credit wisely and how to get the most out of ones income. The fundamentals of investing in stocks, bonds, mutual funds, real estate, and collectibles will also be reviewed.

156 BUSINESS AND SPORTS MANAGEMENT Gr. 9-12 2.5 cr., 18 wks

The course will focus on the importance of management, marketing and the developing of strategies in business and sports related industries.

The students will analyze the nature, structure and impact of professional and amateur sport organizations in a business environment. This includes developing a marketing plan for a professional team such as designing names, and logos, segmenting the fan market, pricing tickets, designing a team stadium and implementing a team promotional strategy.

At Voorhees students will be able to practice management skills while working in the school store. They will be able to practice personal selling techniques, product packaging, pricing and distribution, along

with marketing strategies geared toward successfully marketing products involved in operating a merchandise business (the school store).

157 INTERNATIONAL BUSINESS Gr. 10-12 2.5 cr., 18 wks

The business world today is immersed in a global economy. Even the smallest of businesses deal with other nations. This course prepares students for today's business world that provides goods and services worldwide. Students will learn about marketing, customs, currency, import and export and other vital tools for international trade.

158 INTRODUCTION TO BUSINESS and MARKETING Gr. 9-12 2.5 cr., 18 wks

Course Description: The marketing course is for students who are preparing for careers in marketing, merchandising, and management. The students will study basic marketing concepts such as promotion, advertising, merchandising, salesmanship, event planning and more. The marketing course is project based which will allow students the opportunity to develop marketing plans, advertising campaigns, and event planning in one of the following specialized areas: sports and entertainment marketing, fashion marketing, travel, tourism, and hospitality marketing, or entrepreneurship and management. Students are encouraged to develop leadership skills, good citizenship traits, social intelligence, and career understanding through participation in Future Business Leaders of America and other organizations.

171 BUSINESS COMPUTER APPLICATIONS I Gr. 9-12 2.5 cr., 18 wks

This course will develop skills to be successful in college and in the workplace. Learn to key touch, format reports and presentations, and increase your ability to communicate rapidly on the Internet. Become more familiar with presentation and spreadsheet software. The Microsoft Office Suite software package is taught in this course.

It is highly recommended that all students take this course. Use Business Computer Applications I as a stepping stone to the next level-Business Computer Applications II.

172 BUSINESS COMPUTER APPLICATIONS II Gr. 9-12 2.5 cr., 18 wks

Sug. Pre: Business Computer Applications I

A hands-on approach gives students the skills needed to meet the demands of today's technological world. Students prepare a portfolio of assignments combining Word, Access, Excel, PowerPoint and desktop publishing.

This course is ideal for students using the computer at home, in college, or in business. Skills and knowledge acquired can be used immediately.

185 ACCOUNTING I Gr. 10-12 5 cr., 36 wks

This course gives the student a thorough background in the basic accounting procedures used to operate a business. Accounting offers an important and necessary foundation for students who plan to go on to college or enter the business world upon graduation. Students will learn the universal language of all businesses by experiencing how to set up and maintain records for a business using the double entry accounting method. Computerized accounting will also be introduced in this class. Accounting is a must for any college-bound student planning to major in business administration.

186 ACCOUNTING II Gr. 11-12 5 cr., 36 wks

Sug. Pre: Accounting I

This hands-on course reviews Accounting I principles and introduces new accounting concepts; such as,

depreciation, notes, partnerships, uncollectible accounts, inventory controls and corporation accounting.

Accounting II is strongly recommended for students planning to major in any area of business in college and to the student who plans to gain employment after high school in the accounting field or a related business field. Some activities will be completed on the microcomputer.

187 COMPUTER ESSENTIALS Gr. 10-12 (V) 2.5 cr., 18 wks

Students taking this course will learn the electronic and on-line skills necessary to survive in the new millennium. Topics covered will include Internet provider selection, safety, and security; how to purchase, upgrade, and set up a computer; installing and removing software; banking over the Internet; using software to maintain a checking account; how to file government returns over the Internet; tracking investments with the Internet; and how to purchase and sell products over the Internet.

191 BUSINESS LAW Gr. 10-12 2.5 cr., 18 wks

This course deals with legal rights as well as with legal duties and responsibilities of individuals in their personal and business transactions. Laws covering contracts, insurance, renting, property ownership and laws which affect teenagers will be studied. Existing statutes, case studies, and current events will be discussed regularly.

770 FINANCIAL LITERACY MONEY MATTERS Gr. 9-12 (N) (Req.) 2.5 cr., 18 wks Gr. 11-12 (V) (Req.) 2.5 cr., 18 wks

Note: Description on pg. 39

ENGLISH

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FRESHMEN take a full year of English I (5 credits). which is designed to provide each student with a sound basis in reading, writing, speaking, listening and viewing. Although course levels may differ in focus and/or depth, they all provide instruction in English fundamentals that will prepare the student for success in upper-class programs. Core literature includes *The Tempest*, *Great Expectations*, *King Arthur*, and the *Odyssey*, as well as a selection of short stories.

SOPHOMORES take a full year of English II (5 credits), which is designed to develop and enhance their reading, writing, listening, speaking and viewing skills. Core works include *Genesis*, *Antigone*, *The Catcher in the Rye* and selections from Edith Hamilton's *Mythology*.

JUNIORS must take 5 credits of English. There are several options by which to achieve this requirement:

A-AP Language and Composition (287) full year, 5 credits (by recommendation only).

B-English III Honors-(250)-full year, 5 credits (by recommendation only).

C- English III (242) full year, 5 credits

D- English III (CP) (241) full year, 5 credits

SENIORS must take 5 credits of English. There are several options by which to achieve this requirement:

A - AP Literature and Composition (288) full year, 5 credits (by recommendation only)

B – British Literature Survey (H/Wt.) (285) and Honors College Writing (CEP) (H/Wt.) (289) (by recommendation only)

C – English IV Honors (H/Wt.) (246) (N) (by recommendation only)

D – English IV CP (245)

E – English IV (244)

To graduate from the North Hunterdon/ Voorhees High School District, students must successfully complete the above requirements and must earn both 20 credits of English and 2.5 credits of Advanced Academic Literacies.

211 ENGLISH I Grade 9 5 cr., 36 wks

This course is designed for students who need to develop competency in basic listening, speaking, reading, writing, viewing, studying, and critical-thinking skills. Fundamental vocabulary and reading comprehension skills receive heavy emphasis, as do grammar usage and mechanics, spelling, punctuation, and sentence structure. Students learn to write effectively and to understand basic elements of literary texts.

212 ENGLISH I (CP) Grade 9 5 cr., 36 wks

Students of average to above-average abilities who want to develop fluency in listening, speaking, reading, writing, viewing, studying, and critical-thinking skills should register for this course. The course focuses on vocabulary, grammar usage and mechanics, spelling, punctuation, sentence structure, paragraph logic, fundamentals of writing, and major literary genres.

213 ENGLISH I (H/Wt.) Grade 9 5 cr., 36 wks

This course is offered to students of above-average ability and performance who want to pursue excellence and sophistication in listening, speaking, reading, writing, viewing, studying and critical-thinking skills. The course includes skills dealing with vocabulary, grammar usage and mechanics, spelling, punctuation, sentence structure, and essay writing. Fundamentals of expository and creative writing receive careful attention. Major literary genres are introduced, studied, interpreted, and analyzed.

216 ADVANCED ACADEMIC LITERACIES Grade 9 (Required) 2.5 cr., 18 wks

Advanced Academic Literacies encourages students to develop basic skills across the curriculum, including basic literacy in reading, writing, listening, speaking, informational literacies, economics, technology, mathematics, visual, global and multicultural studies. Students will gain the skills and knowledge necessary to become life-long learners. The methods of instruction will include collaboration, consensus building, and cooperative learning.

228 ENGLISH II Grade 10 5 cr., 36 wks

Students who need to continue developing fluency in listening, speaking, reading, writing, viewing, studying, and critical-thinking skills should register for English II. Writing and world literature are combined to help students develop greater understanding of the relationship between artists and cultures, and of literature as a vehicle for exploring human experiences and expressing human ideals. Students develop proficiency in the basic forms of discourse, including description, narration, argumentation/persuasion, and exposition, as well as experience-based, expressive writing. Fundamental techniques for clear, focused, structured writing are developed through literature-based analytical essays. As students write in a variety of modes, for various purposes and audiences, they practice all stages of the writing process (prewriting, drafting, revising, editing, post-writing). Proper research procedures are developed through a research paper.

229 ENGLISH II (CP) Grade 10 5 cr., 36 wks

Students of average to above-average abilities who want to continue developing fluency in listening, speaking, reading, writing, viewing, studying, and critical-thinking skills should register for English II (CP). Writing and world literature are combined to help students develop greater understanding of the relationship between artists and cultures, and of literature as a vehicle for exploring human experiences and expressing human ideals. Students develop proficiency in the basic forms of discourse, including description, narration, argumentation/persuasion, and exposition, as well as experience-based, expressive writing. Fundamental techniques for clear, focused, structured writing are developed through literature-based analytical essays. As students write in a variety of modes, for various purposes and audiences, they practice all stages of the writing process (prewriting, drafting, revising, editing, and reflecting). Proper research procedures are developed through the writing of a formal research paper.

230 ENGLISH II (H/Wt.) Grade 10 5 cr., 36 wks

This course is offered to students of above-average ability and performance who want to continue pursuing excellence and sophistication in listening, speaking, reading, writing, viewing, studying, and critical-thinking skills. Writing and world literature are combined to help students develop greater understanding of the relationship between artists and cultures, and of literature as a vehicle for expressing human experiences and ideals. Students learn to appreciate literature and other arts in personal, cultural, social and historical contexts. Students develop proficiency in the basic forms of discourse, including description, narration, argumentation/persuasion, and exposition, as well as experience-based, expressive writing. Fundamental techniques for clear, focused, structured writing are developed through literature-based analytical essays. As students write in a variety of modes, for various purposes and audiences, they practice all stages of the writing process (prewriting, drafting, revising, editing, and reflecting). Proper research procedures are developed through each student's preparation of a literary research paper.

241 ENGLISH III Gr. 11

242 ENGLISH III (CP) Gr. 11 5.0 cr., 36 wks

Students who want to continue developing fluency in reading, writing, viewing, studying, and critical thinking skills should register for this survey. This course will include the study of significant works of pre-twentieth century authors as well as works important to the twentieth century. Although a chronological approach may be employed, various themes may be reviewed. Wherever possible, attempts will be made to place the key literary concepts into an historical context. Vocabulary study will be fundamental to the course. This will be achieved through vocabulary texts as well as through literary contexts. Critical and analytical writing and reaction papers will be integral to the course. Research and HSPA skills will also be emphasized.

250 ENGLISH III (H/Wt.) Gr. 11 5.0 cr., 36 wks

This course surveys important works of American literature and selected inter-related works from world literature. Frequent writing assignments and a term paper are integral parts of the curriculum. The literature and supplemental texts are sources of vocabulary enrichment, and speaking skills are developed through formal speeches and informal discussions.

287 AP ENGLISH LANGUAGE AND COMPOSITION (H/Wt.) (AP/Wt.) Gr. 11 5 cr., 36 wks

AP English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effectiveness in writing. Students are strongly encouraged to

take the AP English Language and Composition Examination administered by The College Board. Admission is limited to students who have demonstrated excellence in English as evidenced by their success in the underclass foundation courses, who are avid readers, and who have demonstrated ability and enthusiasm for English studies. A writing sample and teacher recommendations may be required for the final selection process. Summer reading will be assigned.

AP English Language and Composition fulfills grade 11 English requirements.

244 English IV Gr. 12

245 English IV (CP) Gr. 12

246 English IV (H/Wt.) Gr. 12 5.0 cr., 36 wks (N)

English IV, English IV (CP), and English IV (H/Wt.) are full-year, comprehensive courses that examine the human experience, especially as it relates to the human's role in society and the impact decisions have while transitioning into another part of life. These issues will be studied through a variety of texts of differing genres, and further explored through writings that emphasize advanced writing skills and critical thinking skills. Students will also improve their speaking, listening, and viewing skills through a variety of activities. English IV (CP) is for students of average to above-average abilities; English IV (H/Wt.) is offered to students of above-average ability and performance.

**288 AP ENGLISH LITERATURE AND COMPOSITION (H/Wt.) (AP/Wt.) Gr. 12
5 cr., 36 wks**

AP English Composition and Literature involves analysis of literature and the study and practice of writing. Students examine individual work's language, characters, action, and themes. They consider each work's structure, meaning, value, and relationship to contemporary and historical experience, and they scrutinize representative works from several genres and concentrate on reading and writing about challenging works of recognized literary merit.

Students are encouraged to take the AP English Composition and Literature Examination administered by The College Board.

Admission is limited to students who are avid readers and who have demonstrated an exceptional ability and enthusiasm for English studies. A writing sample and teacher recommendation may be required for the final selection process. Summer reading will be assigned.

285 BRITISH LITERATURE SURVEY HONORS Gr. 12 2.5 cr., 18 wks

This course is intended as a companion piece to the Honors College Writing (CEP), thus allowing students to take two semesters of Honors-weighted classes in their senior year. Students who want to continue to develop greater fluency in reading, writing, speaking, viewing, and listening as well as critical thinking skills should register for this survey course. The class will include a broad range of significant British works, from earliest ballads up through modern times. Although a chronological approach may be employed, key literary themes will also be reviewed. Students will be expected to complete an annotated analysis project as part of the course requirements. Various literary genres, such as drama, poetry, short fiction and the novel, will be studied.

The following are elective courses available for juniors and seniors. Students may take one or more of these courses in addition to the full-year English course (English III or English IV).

232 PUBLIC SPEAKING Gr. 10-12 2.5 cr., 18 wks

By familiarizing students with how to organize and deliver differing types of conventional public speeches, this course aims to increase student confidence, build student poise, and teach the student how

to be an interesting and effective public speaker. In addition to establishing correct standards of good speech, the course focuses on listening excellence, group speaking situations, principles of interpersonal communication, appropriate use of body language, and principles of delivery and critiquing. *The credits awarded for successful completion of this course are Public Speaking (rather than English) credits*

235 NEWSPAPER PRODUCTION (CP) Gr. 10-12 5 cr., 36 wks.

Prerequisite: approval of instructor.

This course is open to 10th, 11th, and 12th grade college-preparatory students. The course focuses on teamwork in producing a newspaper, and on the skills of journalism: writing, editing, photography, art, sports coverage, and business management. Students hold working positions as part of the newspaper staff, assume responsibilities, make decisions relevant to their staff role, and experience hands-on practice in design, layout, and production of the newspaper. Producing the school newspaper often requires after-school responsibilities.

Students selecting this course must have at least a "B" average in previous English courses and must file the Newspaper Production instructor's signature of approval with their guidance counselor.

258 CREATIVE WRITING I (CP) Gr. 11-12 2.5 cr., 18 wks. (V)

Creative Writing encourages students to develop individual artistic expression in a workshop setting. Responding to a variety of writing exercises and literary models, students create a portfolio that becomes the basis for their assessment. Students consider audience and purpose, and practice all stages of the writing process as they create poetry, fiction and drama. Literature, personal experience, and observation form the basis for varied assignments that develop fundamental techniques of creative writing.

273 LITERATURE OF SPORTS AND ADVENTURE (CP) Gr. 11-12 2.5 cr., 18 wks (V)

This one semester course is an elective class for juniors and seniors and fulfills one-semester of the required four years of English. Students will be exposed to literature that involves humans testing themselves against nature, against other people, and ultimately against themselves. Selected short stories, novels, drama, journalism, film, biography, and other nonfiction writing will be used to help students develop skills in the five core content areas of reading, writing, speaking, listening, and viewing. Students will be expected to engage in critical analysis of the various works through writing and discussion of key topics.

289 HONORS COLLEGE WRITING (CEP) (H/Wt.) Gr. 12 2.5 cr., 18 weeks

In conjunction with Raritan Valley Community College, the district is offering this college-level writing course to students who qualify. The curriculum is designed by the college and will include a series of papers and a research paper based upon reading assignments from the college text.

Students may choose to take the course for college credit if they pass the RVCC screening test or score 540 or above on the Critical Reading portion of the SAT. A minimum GPA of 3.0 is required in order to receive the college credits. The cost to receive the college credits is comparable to any three-credit course offered at RVCC. Students will also be responsible for a \$25.00 application fee. In addition, students will be expected to purchase the required text. Students who satisfactorily complete the course will receive credits transferable to a number of colleges. Students and parents of students interested in taking this course are strongly encouraged to attend an orientation session.

291 SCIENCE FICTION AND FANTASY (CP) Gr. 11-12 2.5 cr., 18 wks (V)

Science Fiction and Fantasy is a one semester course open to juniors and seniors. Students will be exposed to a wide variety of literature from the genre of science fiction including short stories and novels as well as essays and scientific projections on the future. Works from Bradbury, Asimov, Heimlein and other will be among the works included. Critical and analytical writing and reaction papers will be integral to the course.

891 READING/WRITING IMPROVEMENT I 2.5 cr. toward graduation (not English) 18 wks

R/W Improvement I is mandatory for students who are identified as not proficient in reading and/or writing by the ASK-8, as well as students who are in need of remediation as recommended by freshman English teachers.

892 READING/WRITING IMPROVEMENT II 2.5 cr. (applicable as recommended by English Department Supervisor) Gr. 11-12

R/W Improvement II is designated for juniors and seniors who have demonstrated a need for remediation in preparation for the HSPA.

FAMILY AND CONSUMER SCIENCES

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Courses successfully completed in the Family and Consumer Sciences Department meet the graduation requirement in PRACTICAL ARTS. Family and Consumer Sciences include six major content areas: foods and nutrition, child development, family relations, clothing and textiles, housing, and consumer education. These courses are all useful and necessary in our complex everyday lives.

400 FOOD SURVEY

Gr. 10-12 (N) 2.5 cr., 18 wks

Gr. 9-12 (V) 2.5 cr., 18 wks

This course is an introduction to basic food selection and preparation, meal planning and food service. Opportunities for employment in the food industry are discussed. Students use the food laboratory for food preparation on a regular basis.

402 COOKING FOR SINGLES Gr. 10-12 2.5 cr., 18 wks

Cooking for Singles prepares the student to develop skills in selection, preparation and serving foods commonly used in everyday meals. Nutrition and consumer skills are highlighted throughout the course along with experiences in the foods laboratory.

404 INTERNATIONAL FOODS Gr. 10-12 2.5 cr., 18 wks

Pre.: Food Survey, Food & Fitness or Cooking for Singles.

Students will learn about the methods of preparing foods from countries within the regions of Latin America, Europe, Mediterranean, Asia and regional cuisine of the United States. Emphasis is placed on the geographic, climatic and cultural factors that have influenced the food customs.

406 GOURMET CUISINE Gr. 10-12 2.5 cr., 18 wks

Pre.: Food Survey, Food & Fitness or Cooking for Singles.

Beginning with the improvement of basic knowledge and skills, the student progresses to more advanced and sophisticated techniques in food planning, preparation and service. Emphasis is placed on creativity, presentation and experimentation.

408 FOOD & FITNESS Gr. 10-12 (N) 2.5 cr., 18 wks Gr. 9-12 (V) 2.5 cr., 18 wks

This course stresses the crucial role eating a nutritious diet plays in overall health. It highlights the importance of physical activity as part of your daily routine and healthful eating habits as part of total wellness. Students will work in the food lab to practice the principles discussed throughout the course.

412 FASHION DESIGN AND MERCHANDISING Gr. 9-12 2.5 cr., 18wks

This course will deal with basic concepts in the fashion industry and their specific application. Major units in this course include: Fashion trends and design, fabrics and care, technology, merchandising, and the fashion industry. Projects will be completed utilizing the sewing techniques covered in class.

413 SEWING FOR FASHION Gr. 9-12 2.5 cr., 18wks

The focus of this course is to learn to sew clothing to extend your wardrobe. Students will select patterns and fabrics, and construct garments. Students will learn to work independently on sewing projects. No prior sewing experience is required.

424 INTERIOR DESIGN Gr. 9-12 2.5 cr., 18 wks

This course is an introduction to techniques of decorating and furnishing a home to meet individual needs. Students will learn principles and elements of design, use of color schemes, and drawing and evaluating floor plans. An examination of types and styles of housing and career opportunities will be included. Students will produce items applicable for a portfolio.

429 CHILD CARE SURVEY Gr. 9-12 2.5 cr., 18 wks

This course introduces students to the world of children through learning about ages, stages and activities to present to children. Employment opportunities in child care and education are also explored. Students will have hands on experiences observing and teaching children in a preschool setting.

430 CHILD DEVELOPMENT AND PARENTING Gr. 9-12 2.5 cr., 18 wks

Students will explore child growth and development with a focus on infants and toddlers. All aspects of family life are presented with an emphasis on family roles and responsibilities of parenthood. Students will also have hands on experiences observing and teaching children in a preschool setting.

440 INDEPENDENT LIVING Gr. 10-12 2.5 cr., 18 wks

This is a practical course designed to prepare students for living away from home on their own. The areas covered include: career, work skills, finances, consumer skills, housing, clothing, foods and nutrition. The course will better prepare students for adult living and decision making in today's society.

770 FINANCIAL LITERACY MONEY MATTERS Gr. 9-12 (N) (Req.) 2.5 cr., 18 wks Gr. 11-12 (V) (Req.) 2.5 cr., 18 wks

Note: Description on pg. 39

HEALTH AND PHYSICAL EDUCATION

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The Health and Physical Education program contributes to the total development of the individual emotionally, socially, culturally, mentally, and physically. Our curriculum offers “carryover” leisure time

activities as part of the total program.

According to N. J. Law, all students must take and pass physical education, health or driver education requirements. Every student must take the appropriate courses each year he/she is enrolled in school.

The Physical Education Program is designed to develop knowledge and basic skills in a variety of life time sports and activities. The physical fitness and well-being of our students is addressed in all of the courses offered.

We are determined to assess our students' own particular needs and to attempt to meet these needs by our instruction, facilities, and equipment.

Through the incorporation of a wide variety of selected activities, both of an individual and team nature, we hope to provide a sound foundation for physical, social and emotional fulfillment.

We seek to provide critical situations which enhance and/or challenge the students' judgment, responsibility and overall attitude toward themselves and the environment.

The leadership program in physical education is a program designed to gain hands-on experience. The overall purpose is to enhance leadership qualities and learn organizational skills.

The Comprehensive Physical Education/Health program is designed to meet the N. J. state mandated program of Family Life Education and the newly adopted Core Curriculum Standards.

361 HEALTH 9 Gr. 9 2.5 cr., 18 wks

Freshman health is designed to help the student deal with the emotional and physical changes that take place during adolescence. This course explores the topics of stress, environmental health, communicable diseases and use and abuse of drugs, tobacco and alcohol. Sexually transmitted diseases and reproduction are also discussed in regard to the impact on their personal lives and society as a whole. Throughout each unit special emphasis is placed on being able to make responsible decisions and developing and practicing refusal skills.

356 DRIVER EDUCATION THEORY Gr. 10 2.5 cr., 18 wks

Classroom Driver Education is a required course for all sophomores. It is intended to familiarize the student with the necessary, basic information for learning how to drive properly and safely. The course investigates the history of transportation, offers an in-depth study of New Jersey driving statutes and Division of Motor Vehicles Regulations, including driver responsibilities. Law enforcement agencies offer input into the legalities involved in driving, traffic safety, and accident prevention.

Upon completion of the course, the students will take the New Jersey State written exam which, if successfully passed, is valid for two years.

362 HEALTH 11 Gr. 11 2.5 cr., 18 wks

Junior Health is designed to increase self awareness, improve self image, further the decision making process and promote refusal skills. The students also explore the topics of life-long fitness, personal safety, CPR, and substance use, abuse and intervention. The physiological aspects of human sexuality are reviewed and expanded.

393 HEALTH 11 WHAT IS TEEN PEP Gr. 11 (N) 5 cr.

Teen PEP is a coordinated, statewide strategy to increase knowledge, skills, and behaviors that promote sexual health among high school students. Each year, ten schools are selected to implement a sexual health education course, based on the nationally recognized HiTOPS, Inc. (Health Interested Teens' Own Program on Sexuality) curriculum and the model of peer-to-peer education developed by the Princeton Center for leadership Training.

This a full year course. One class is offered each year; enrollment is limited and selective for

North Hunterdon only.

363 HEALTH 12 Gr. 12 2.5 cr., 18 wks

This course will better prepare the student to assume his or her adult role in society. Special emphasis is given to understanding each individual and his/her role in the family. Areas covered are family planning, marriage, courtship and engagement, finances, society today, and parenting.

370 PHYSICAL EDUCATION 9 Gr. 9 2.5 cr., 18 wks

Physical Education I is an introductory program designed to develop students' physical abilities through a wide variety of activities including Introduction to Project Adventure. This first year introduces students to sports and activities, which generally continue in sequence, through Physical Education courses in 10th, 11th, and 12th grade.

375 PHYSICAL EDUCATION 10 Gr. 10 2.5 cr., 18 wks

380 PHYSICAL EDUCATION 11 Gr. 11 2.5 cr., 18 wks

385 PHYSICAL EDUCATION 12 Gr. 12 2.5 cr., 18 wks

Physical Education X, XI, and XII provide lifetime carry-over sports activity programs for students. During the year, the elective program allows students to choose a variety of these activities in which they demonstrate an interest. Also, Project Adventure I, which consists of trust activities and low elements, is a sophomore requirement and Project Adventure II which consists of high elements is elected in either the junior or senior year.

390 PHYSICAL EDUCATION LEADERSHIP 1 Gr. 11-12 2.5 cr., 18 wks

Leadership I is designed to enable the student to successfully organize a class into squads, learn proper attendance procedure and be able to assist a substitute teacher. The student will also begin to learn different teaching methods with large and small groups, be able to lead a teacher-prepared callisthenic routine and to observe students' level of participation.

391 LEADERSHIP 2 Gr. 11-12 2.5 cr., 18 wks

Leadership I is a pre-requisite for this course.

Leadership II concentrates on preparing and leading callisthenic routines, assisting the teacher in skills taught for each activity, developing tools for pupil evaluation and becoming knowledgeable on use, care and storage of equipment.

**Leadership I and II offered at North Hunterdon only*

395 ADAPTIVE PHYSICAL EDUCATION (V) Gr 9-12 2.5 cr., 18 wks

MATHEMATICS

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The mathematics department encourages all students to take as many mathematics courses in high school as possible. Studying mathematics helps the student to develop problem solving abilities, abstract reasoning skills, and computational tools which are necessary for success in the world of work. There is a minimum fifteen credit mathematics graduation requirement. It is recommended that a student maintain a

‘C’ average in order to progress to the next course at the same level. College bound students whose career goals may involve a curriculum requiring calculus, discrete math or statistics should absolutely take four years of college preparatory mathematics. Scientific and graphing calculators are required.

All computer courses offered by the department receive Practical Arts credit. These courses are in Computer Applications, JAVA Programming, and AP Computer Science.

501 FOUNDATIONS FOR ALGEBRA Gr. 9-12 5 cr., 36 wks

This course is designed for students who need more practice and hands on experiences to grasp concepts. It is designed to help students develop a strong understanding of algebraic concepts and processes from consistent experiences in classroom activities where a variety of manipulatives and technology are used. Major goals in this course are to encourage use of patterns and properties of numbers to solve and model real-world situations, explore linear functions and their graphs, and to solve equations and inequalities using a variety of methods.

503 GEOMETRY Gr. 10-12 5 cr., 36 wks

Sug. Pre: 501, 510

Geometry is designed to help student who have successfully completed Foundations for Algebra (V) or Algebra 1 (N). Students will explore and discover key geometric properties using a more hands-on approach. Geometry computer software applications may also be used at times to assist with exploring concepts. It will offer the student additional time to grasp the concepts through the use of concrete examples and informal methods of looking at two- and three-dimensional space such as paper-folding, transformations, tessellations, and projections. Students will recognize and be aware of the many applications of geometric thinking in the real world around us.

504 CORE ALGEBRA II Gr. 11-12 5 cr., 36 wks

Sug. Pre: 503

Core Algebra II is designed as a continuation of Core Algebra I and Core Geometry giving students more practice and hands on experiences using technology and manipulatives in exploring further topics in algebra and coordinate geometry. A major goal in this course is to expand on previously studied algebraic and geometric concepts including polynomial and exponential functions, transformations, second degree equations, probability, data analysis, curve fitting, and topics in discrete math.

510 ALGEBRA I Gr. 9-12 5 cr., 36 wks

Algebra I is designed to prepare students for the New Jersey End-of-Course Algebra I exam. It builds upon the knowledge and skills gained in Foundations for Algebra or a Pre-Algebra course and also includes operations with polynomials and matrices, creation and application of linear functions and relations, algebraic representations of geometric relationships, and an introduction to nonlinear functions. It will give the student the opportunity to apply their mathematical knowledge to a number of real life experiences. Technology is used to explore, research and present data. Incoming freshmen who enroll in this course should have scored proficient on the NJ ASK8 test administered in grade 8. At Voorhees enrollment is through Supervisor recommendation only.

512 ALGEBRA I (CP) Gr. 9-12 5 cr., 36 wks

This course is a rigorous College Preparatory course that includes work with variables, simple equations, and formulas, signed numbers, operations with polynomials, fractions and fractional equations, systems of linear equations, factoring, ratio and proportion, exponents, radicals and quadratic equations. This course helps the student develop a systematic approach to thinking,

while learning algebraic skills. Upon completion of this course, students will be prepared for the New Jersey End-of-Course Algebra I exam. Students who enroll in this course should have scored proficient on the NJ ASK8 test administered in grade 8.

514 ALGEBRA II Gr. 11-12 5 cr., 36 wks (N)

Sug. Pre: 510 and 503

Algebra 2 is designed for students who need more time to process mathematical ideas and is taught at a slower pace than the Algebra 2 CP course. It builds and expands upon the concepts taught in Algebra 1 such as fundamental operations, functions, systems of linear equations, exponents, radicals, and quadratic equations. Additional topics such as exponential, logarithmic, and rational functions, sequences and series, conics, matrices, probability and statistics, and trigonometry will be introduced. Technology is used to explore, research, and present data. Students who enroll in this course should have scored proficient on the End of Course Algebra 1 exam.

516 ALGEBRA II (CP) Gr. 10-12 5 cr., 36 wks

Sug. Pre: 512 and 522

Algebra II gives the student the mathematical background needed for continuing his studies in mathematics. The course increases understanding of facts and principles learned in Algebra I, including fundamental operations, functions, systems of linear equations, exponents, radicals, and quadratic equations. New topics, such as complex numbers, logarithms, and conic sections are introduced. Word problems are used throughout, and a systematic approach to problem solving is emphasized.

518 ALGEBRA II/TRIG (H/Wt.) Gr. 10-12 7.5 cr., 36 wks

Sug. Pre: 523

This is an accelerated course which covers the topics of both Algebra II and Trigonometry. It thus requires that the student be able to solve problems rapidly and to spend additional time beyond that normally expected in mathematics courses to complete assignments. As an honors course, it is comprehensive and theoretical.

522 GEOMETRY (CP) Gr. 9-12 5 cr., 36 wks

Sug. Pre: 512

An introduction to plane geometry is provided. Students learn the nature of proof, and develop methods of critical thinking. Definitions and postulates are used as the foundation for the basic plane geometry theorems concerning parallel and perpendicular lines, congruent triangles, similar polygons, and arcs, and angles in circles. Solid geometry is handled informally where applicable. The basic concepts of coordinate geometry and compass and straight edge construction are included.

523 GEOMETRY (H/Wt.) Gr. 9-10 5 cr., 36 wks

This is a geometry course for the accelerated mathematics student. Methods of critical and logical deductive thinking will be developed and used to investigate and solve problems. Many complicated geometric proofs will be presented to the student who will ultimately be able to make presentations on his own. Both solid and analytical geometry will be treated on a sophisticated level. Application of geometry to other fields is included.

530 DISCRETE MATHEMATICS (CP) Gr. 12 (Gr. 11 with teacher recommendation) 5 cr., 36 wks

Sug. Pre: 504, 516

Discrete Mathematics will use problem solving and reasoning skills to explore areas of mathematics not traditionally covered in earlier courses of study. It is the study of mathematics dealing with objects that have distinct separate values that lends itself to a wide variety of “real world” applications. Topics will include counting and sorting techniques, the exploration of combinations, game strategies, the appropriate use of building tree diagrams, and the many applications of networking. Additional topics to be included are the mathematics of voting, problem solving, set theory, logic, and cryptography. This course is designed for the liberal arts student; but may also be of interest to the math/science focused student and taken concurrently with another math class.

533 PRECALCULUS I (CP) FUNCTIONS, STATISTICS, TRIGONOMETRY Gr. 11-12 5 cr., 36 wks

Sug. Pre: 516

Precalculus I (CP): Functions, Statistics and Trigonometry expands the student's knowledge of these areas by covering data analysis, mathematical modeling, transformations of functions and data, the exponential and logarithmic functions, the trigonometric and circular functions, probability, sequences and series, polynomial functions, the binomial and normal distributions, and quadratic relations.

Note: Students will not receive credit for this course if they have received credit for Course #518.

534 PRECALCULUS (H/Wt.) Gr. 10-12 7.5 cr., 36 wks

Sug Pre: 518

Precalculus (H) is designed to continue, maintain, sharpen and improve mathematical skills attained through Algebra II/Trigonometry (H). It also extends many of the topics in more depth than covered in previous math courses and prepares students for a formal course in Calculus. The course includes topics such as: functions, analytical geometry, vectors, and matrices, probability, statistics, limits, series, and introduction to Calculus. Some of the applications of the above topics will involve computer solutions.

535 PRECALCULUS II (CP) Gr. 11-12 5 cr., 36 wks

Sug. Pre: 533 Note: Students will not receive credit for this course if they have received credit for Course #534A.

Precalculus II (CP) is a follow-up course to Precalculus I (CP) and it seeks to prepare students for the study of introductory college level math courses including calculus. The course includes the following topics: logic, functional analysis, polynomial and rational functions, trigonometric identities and equations, recursion and mathematical induction, polar coordinates and complex numbers, limits, combinatorics, graphs and circuits, and vectors.

536 AP STATISTICS (H/Wt.) (AP/Wt.)

Gr. 11-12 5 cr., 36 wks

Sug. Pre: 533; 534 (completed or currently enrolled)

The Advanced Placement course in statistics is equivalent to a one-semester, introductory, non-calculus based, college course in statistics. Upon successful completion of the course, students will take the Advanced Placement Exam for possible college credit.

The purpose of the course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploratory analysis, planning a study, probability, and statistical inference.

AP Statistics is a laboratory-like course which engages students in explorations and analysis of data.

Note: Students taking this Advanced Placement course will be encouraged to take the AP examination near the conclusion of the course. Please see the explanation of the Advanced Placement Program under General Information in this Curriculum Guide.

538 AP CALCULUS AB (H/Wt.) (AP/Wt.)

Gr. 12 7.5 cr., 36 wks

Sug. Pre: 534

Calculus AB is primarily concerned with developing the students' understanding of the concepts of calculus and providing experiences with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being represented geometrically, numerically, analytically, and verbally. Topics covered include functions, limits, derivatives and their applications, Riemann sums, definite and indefinite integrals and their applications, the Fundamental Theorems of Calculus, and numerical approximations to integrals.

540 AP CALCULUS BC (H/Wt.) (AP/Wt.)

Gr. 12 7.5 cr., 36 wks

Sug. Pre: 534

Calculus BC has the same general objectives as Calculus AB and it covers all the topics of Calculus AB plus the following topics: derivatives of parametric, polar and vector functions, slope fields, Euler's Method, L'Hopital's Rule and its applications, length of a curve, integration by parts, integration using partial fractions, improper integrals, logistic modeling, series, series of constants and Taylor series. The content of the BC course is designed to qualify a student for placement and credit in a college course that is one course beyond that granted for the AB course.

Note: Students taking this Advanced Placement course will be encouraged to take the AP examination of the Advanced Placement near the conclusion of the course. Please see the explanation program under the General Information section of this Curriculum Guide.

542 COMPUTER APPLICATIONS (CP)

Gr. 9-12 (V) 2.5 cr., 18 wks

The purpose of this course is to teach students how to accomplish a variety of tasks on a computer. Students will experience a variety of technical, mathematical, scientific and work place applications. It is intended for the college bound student who will need to use computers in his future educational and work environment. The course includes data base management, spread sheet analysis, statistical analysis, simulations, applications of probability, editing, market analysis, money management, graphics and information retrieval via communications. A goal of the course is for the student to view the computer as a powerful, friendly and effective tool for the management and retrieval of information.

545 INTRODUCTION TO 545 COMPUTER PROGRAMMING USING JAVA (CP)

Gr. 9-12 2.5 cr., 18 wks

Sug. Pre: 512

The course is designed to introduce the student to the computer approach to solving problems. The JAVA language will be taught that will directly transfer to future course work in computer science. The students will get "hands-on" experience with the computer from the earliest stages

of the course. They will work on a wide variety of problems, many of which will reflect the students backgrounds and interests, as they cover the topics in the course outline.

547 AP COMPUTER SCIENCE IN JAVA (H/Wt.) (AP/Wt.) Gr. 11-12 5 cr. in Practical Arts 36 wks

AP Computer Science using the Java programming language emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development, and is meant to be the equivalent of a first-semester college-level course in computer science. Students will write computer programs that should be understandable, adaptable, and, when appropriate, reusable. At the same time, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic and formal methods. In addition, the responsible use of these systems is an integral part of the course. There are no programming prerequisites for students who take this course but they should have knowledge of basic algebra and experience in problem solving.

893 MATH WORKSHOP Gr. 9-12 2.5 cr., 18 wks

Students who do not pass the High School Proficiency Assessment are mandated to be in this course. Students may also be placed in these courses if district test scores and/or the NJASK assessment scores reflect deficiencies. Teacher recommendations are also considered.

**770 FINANCIAL LITERACY MONEY MATTERS Gr. 9-12 (N) (Req.) 2.5 cr., 18 wks
Gr. 11-12 (V) (Req.) 2.5 cr., 18 wks**

Note: Description on pg. 39

MUSIC

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North Hunterdon and Voorhees High Schools offer a varied and comprehensive program for all students who have an interest in music. Many of our ensembles have a state-wide reputation for musical excellence, and have won a variety of awards and citations. Your enrollment in the Music Program will offer you an exciting and stimulating high school career.

Courses in music will complete the Fine/Performing Arts requirement needed for graduation.

**Students are required to participate in all performances.*

580 THE HISTORY OF ROCK AND ROLL Gr. 9-12 2.5 cr., 18 wks

Students will study rock and roll music, beginning with its roots in 1900. Students will listen to numerous musical examples, from the earliest popular music forms through the progression of contemporary rock and roll. They will research the music, the technology behind it, the people responsible for creating it, and the political and social motivation for the birth and evolution of rock and roll music.

585 MUSIC THEORY Gr. 9-12 2.5 cr., 18 wks

Get involved in the language of music! Students interested in pop/rock performance as well as serious musicians interested in improving their knowledge of music and their musical skills should take this course. Sight reading, ear training, listening, and analysis will help you to better understand the complex language of music.

588 ELECTRONIC MUSIC I Gr. 9-12 2.5 cr., 18 wks

Learn to create music like the professionals! Synthesizers have been attached to computers. You will learn to use the software programs and be able to compose your own music. Entrance in this course requires a desire to create music.

589 ELECTRONIC MUSIC II Gr. 9-12 2.5 cr., 18wks.

Prerequisite: Electronic Music I or interview with instructor.

Modern musical applications, such as composition for video and film, digital recording and editing techniques, and score/parts generation are the focus of this class. Students will master the above musical applications as well as advanced MIDI editing not covered in Electronic Music I.

593 ELECTRONIC MUSIC III Gr. 10-12 (N) 5 cr., 36wks.

Prerequisite: Electronic Music I, II

This course is designed to give students hands on experience in sound recording and audio post production. Students will explore sound theory (acoustics) and human perception of sound (psychoacoustics), along with the tools and technology used in sound recording and manipulation. Practical applications will include recording live instruments and voices in both controlled and uncontrolled environments, as well as audio post production for video. This class parallels Video III.

590 *BAND Gr. 10-12 5 cr., 36 wks

Band is a large performing ensemble open to all students who play a woodwind, brass, or percussion instrument. Formal concerts are held at various times throughout the year. Band students will learn basic and advanced concepts in musicianship, instrumental techniques, theory, and performance practice. The band performs both traditional and contemporary music.

591 *FRESHMAN BAND Gr. 9 5 cr., 36 wks

Freshman band is a large performing ensemble open to all students who play a woodwind, brass, or percussion instrument. Formal concerts are held at various times throughout the year. Freshman band students will learn basic and advanced concepts in musicianship, instrumental techniques, theory, and performance practice. The freshman band performs both traditional and contemporary music.

592 *STRING ENSEMBLE Gr. 9-12 5 cr., 36 wks

A performing ensemble, Sting Ensemble will provide an opportunity for experienced string players to hone their skills while preparing challenging literature. Not intended for beginners, the course will provide instruction in warm-up materials, scales, sight-reading and ensemble playing. The course is limited to students who perform on violin, viola, cello or upright bass. Students must provide their own instruments. The ensemble will be featured in performances throughout the year.

599 *JAZZ ENSEMBLE Gr. 9-12 2.5 cr., 36 wks

Prerequisite: Audition

Students pursue the jazz idiom by rehearsing and performing in this ensemble. The Jazz Ensemble is open to students who play trumpet, trombone, saxophone, drums, keyboard, guitar and bass.

600 BEGINNING INSTRUMENTAL LESSONS Gr. 9-12 Each 1 cr., 36 wks

Prerequisite: Enrollment in an instrumental ensemble. Individualized or small group lessons for all instruments. Lessons are scheduled individually at the convenience of both the student and the teacher.

601 ADVANCED INSTRUMENTAL LESSONS Gr. 9-12 Each 1 cr., 36 wks

Prerequisite: Successful completion of 600.

Individualized or small group lessons for all instruments. Lessons are scheduled individually at the convenience of both the student and the teacher.

609 VOICE LESSONS Gr. 9-12 1 cr., 36 wks

Prerequisite: Enrollment in vocal ensemble

Students will learn the physiology of the vocal mechanism and study proper vocal techniques.

Additionally, students will sing classical, jazz, and/or popular solo literature.

610 *CONCERT CHOIR Gr. 10-12 5 cr., 36 wks

Prerequisite: Teacher Approval

Concert Choir is a large performance ensemble for students who enjoy singing. Students receive instruction in musicianship, choral skills, and performance skills. Choral music ranging from the classics to the contemporary is explored. At times the choir sings in Latin, German, French, Italian and other languages. There are many opportunities to perform.

611 *FRESHMAN CHOIR Gr. 9 5 cr., 36 wks

Freshman Choir is a large performing ensemble for all freshmen who enjoy singing. Students receive instruction in the basic elements of music. Musicianship, choral and performance skills are covered. Students explore vocal music from light classical to modern. An introduction will be given to proper diction in English and other languages.

612 *CHAMBER CHOIR (N) Gr. 10-12 2.5 cr., 36 wks

Prerequisite: Audition

Chamber choir is a small auditioned choir for serious choral students. The choir, which performs frequently, focuses on a cappella and classical choral literature.

614 COMPOSITION AND ARRANGING Gr. 10-12 (N) 2.5 cr., 18 wks

Prerequisite: Music Theory, AP Music Theory, and/or Electronic Music I.

This course, through the use of computers and available music technology, will provide students with the opportunity to utilize their understanding of music theory in the creative process of music composition and arranging.

615 *SHOW CHOIR Gr. 10-12 2.5 cr., 36 wks

Prerequisite: Audition

Show choir is a small singing ensemble for serious music students. The repertoire will include advanced rhythms, music from musicals, and jazz/pop idiom.

616 *MADRIGAL SINGERS Gr. 10-12 2.5 cr., 36 wks

Prerequisite: Audition

A specialized course, Madrigals recreates the music of the European Renaissance and choral chamber music. The singing includes madrigals and motets in many languages. The Madrigals perform frequently.

617 AP MUSIC THEORY (H/Wt.) (AP/Wt.)

Gr. 10-12 5 cr., 36 wks

This is a college level course in music theory. Students will learn to read, notate, compose, sight-read, and hear music. Vocal, instrumental, and rock musicians will benefit from this course. This course will train students to increase their knowledge of the language of music, their ability to understand what they hear in music, and their ability to perform music at an increased skill level. Students must receive the recommendation of a music teacher to be placed in A.P. Music Theory.

Upon completion of the course, students will be encouraged to take the AP Music Theory Exam for possible waiver of the first year college music requirement for both music and non-music majors. Please see the explanation of the Advanced Placement program under the General Information section of this Curriculum Guide.

618 BEGINNING GUITAR Gr. 9-12 2.5 cr., 18 wks

This course focuses on the guitar as an accompaniment for singing. Students will learn how chords are structured and how to play the guitar. Tuning, strumming, and finger-picking patterns, note-reading and melodic playing will be addressed. Students must provide their own acoustic guitar.

619 GUITAR II Gr. 9-12 2.5 cr., 18 wks

Prerequisite: Teacher Approval

This course is designed for the serious guitar student. Students will continue to develop their guitar skills with a more in-depth study of chords, tuning, note reading, finger picking, and solo performance. Students in this course will be given the opportunity to work both on guitar solos as well as working as part of a guitar ensemble. Classical, jazz, and rock music will be performed in addition to original student compositions. Students must provide their own acoustic guitar.

SCIENCE

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The Science Departments at both North Hunterdon and Voorhees believe that to be a responsible member of today's technical society, a comprehensive knowledge of science is required. To achieve this goal, students are required, by Board of Education policy, to successfully complete a three-year sequence, in grades 9-11, of physics, chemistry, and biology.

620 ENVIRONMENTAL SCIENCE (CP) 5 cr., 36 wks

Sug. Pre.: 622, 632, 662

Environmental Science is a comprehensive environmental issues course that covers topics such as ecology, pollution, world population, food, wildlife and pest management, and energy choices for the growing world population. A variety of issues related to these topics will be explored through text readings, video case studies, and internet research in an effort to prepare students to make more informed environmental choices that they will all face in the future.

621 BIOLOGY 5 cr., 36 wks

Fundamental biological concepts are fully examined in this course. This basic life science course is designed for those students not planning further studies in science related courses. Through a variety of exercises, demonstrations, and laboratory experiences the student will discover new concepts and interests in the biological sciences.

622 BIOLOGY (CP) 5 cr., 36 wks

This course provides students with the fundamentals of the life sciences and insight into the nature of scientific research, its achievements and applications. Lab Biology is intended for college bound students who may or may not major in science.

623 BIOLOGY (H/Wt.)

7.5 cr., 36 wks

This course is intended to lead to further study in biology or a related field. The course provides a conceptual understanding of the biological sciences. It aims itself towards an understanding of all sciences as a process of inquiry. Some consideration will be given to species development through an in-depth study of a variety of laboratory specimens. Active participation by each student is required. Independent study of related materials will be encouraged to further enhance course content.

628 AP ENVIRONMENTAL SCIENCE (H/Wt.) (AP/Wt.) 5 cr., 36 wks

Sug. Pre.: Physics, Chemistry, Biology, and Algebra II. (All CP or higher)

The AP Environmental Science course is equivalent of a one semester, introductory college course in Environmental Science. It is a rigorous science course that stresses scientific principles and analysis in all areas of environmental science. Students will use the concepts and methods necessary to understand the interrelationships in the natural and human modified world as specified in the AP national curriculum. Additional independent projects are part of the course load. Applicants may be screened using criteria of prior science grades, present science teacher recommendations, and/or standardized test results when

available.

Note: All students taking this course will be encouraged to take the Advanced Placement Examination which is administered in the first two weeks of May. Please see the explanation of the Advanced Placement Program under the General Information section of the Curriculum Guide.

629 AP BIOLOGY (H/Wt.) (AP/Wt.) 10 cr., 36 wks

Sug. Pre.: 516, 633

This rigorous college level course, taught from a college text book, is the equivalent of an introductory Biology course required of science majors at most universities. This course should be considered by those students who have demonstrated high achievement in previous science courses. Applicants may be screened using criteria of prior science grades and PSAT results.

Note: All students taking this course will be encouraged to take the Advanced Placement Examination which is administered in the first two weeks of May. Please see the explanation of the Advanced Placement Program under the General Information section of the Curriculum Guide.

082 ANIMAL SCIENCE Gr. 9-12 (N) 2.5 cr., 18 wks

Recreational and production animals will be studied. It is designed to add depth and detail to the students' understanding of animals and deals with the interactions between these organisms and their living and nonliving environment. The basics of nutrition, handling, breeding, evaluation, care and selection of animals will be covered.

631 CHEMISTRY 5 cr., 36 wks

This fundamental chemistry course will develop a conceptual knowledge of chemistry principles. The course is designed for students not planning further studies in science-related courses. Through a variety of exercises, classroom demonstrations and laboratory experiments, students will discover an interesting and useful knowledge base in chemistry.

632 CHEMISTRY (CP) 5 cr., 36 wks

Important concepts in chemistry needed for future courses in chemistry or related fields will be presented. Study habits and problem solving techniques acquired during the course should benefit the student in future study. Lab work is an important part of the course. The student will be expected to learn basic lab skills and to become familiar with lab equipment and its proper use.

633 CHEMISTRY (H/Wt.)

7.5 cr., 36 wks

Sug. Pre.: 662, 512

The development of the scientific method is present along with the basic relationships of chemistry. Qualitative and quantitative analytical thinking will be developed based on laboratory experiences. This course is intended for students who plan a career in chemistry or related fields, or who desire an academically challenging course.

636 ORGANIC CHEMISTRY Gr. 11 & 12 (V) 2.5 cr., 18 wks.

Prerequisite: Honors or AP Chemistry. This is an honors level introduction to organic chemistry targeted at students who wish to pursue further study in chemistry or health related fields. This course examines the structure and reactivity of carbon containing compounds. Students will learn how to physically characterize and identify organic molecules. Everyday applications of organic

chemistry in areas such as energy, food, medicine, personal care, and polymers will also be explored through lecture and laboratory activities.

639 AP CHEMISTRY (H/Wt.) (AP/Wt.) 10 cr., 36 wks

Sug. Pre.: 522 and 663 (grade of B or higher)

This rigorous college level course, taught from a college textbook is the equivalent of the general chemistry course required of science majors at most universities. This course should be considered by those students who have demonstrated high achievement and ability in science courses. Applicants may be screened using criteria of prior science grades and PSAT results.

Note: All students taking this course will be encouraged to take the Advanced Placement Examination which is administered in the first two weeks of May. Please see the explanation of the Advanced Placement Program under the General Information section of the Curriculum Guide.

647 EARTH SCIENCE (CP) (V)

2.5 cr., 18 wks

This hands-on lab based course not only introduces the way knowing Earth Science can save your life, but also the way it can enhance your life. There is no pre-requisite, everyone is invited to take this exciting class. The course starts with weather: how it affects us, how it goes to extremes and how it can be used as a new form of art. The following units are oceans and what they look like on the bottom, our local geology including finding your house on a USGS map, the geology and minerals of popular jewelry, including splitting Herkimer rocks to find a unique gem, earthquakes, volcanoes and plate tectonics along with stunning videos and finally, a broad unit on travel where rivers, glaciers, weathering, erosion and deposition are investigated by virtual travel through our amazing country and to exotic locations around the globe. There is a community service project as a part of this course and extra credit of all types.

650 HUMAN ANATOMY AND PHYSIOLOGY (H/Wt.)

5 cr., 36 wks *Prerequisite: B or higher grade in 622-623, and 632-633.*

This is a systematic study of the human body and related areas of health and disease. Laboratory work is a significant part of the course and students will perform various physiological experiments and dissections of representative animals. The student will need to devote more time in study than is provided by the regular classroom meetings.

652 FORENSIC SCIENCE (CP)

2.5 cr., 18 wks

Prerequisite: Lab Physics (CP), Lab Chemistry (CP), and Lab Biology (CP).

This course is intended for those planning further study in forensic science or a related field. This course provides a conceptual understanding of forensic science through the process of inquiry. Included in this study are extensions of concepts learned in physics, chemistry, and biology. The laboratory experience will be a key component of this course. Independent study of related materials will be encouraged to further enhance course content.

655 ASTRONOMY (CP)

2.5 cr., 18 wks

In life and in astronomy it always pays to look up! Investigate the amazing and truly fantastic Universe in this hands-on course that has no pre-requisite and will expand your mind. Topics

include constellations and mythologies, labs that investigate the planets, moons and mysterious nebula, videos that use computer simulations with actual images to transport you across the galaxy, into black holes and to exploding stars and even do some daytime solar observing. Find out why 99% of astronomers believe in extraterrestrial life. Class discussions are common and always welcome. A community service project is part of the class and extra credit at the NJAA is regularly available.

658 BEHAVIORAL ECOLOGY: PRINCIPALS AND TECHNIQUES (CP) (V)

2.5 cr., 18 wks

Behavioral Ecology is the science that deals with the interactions between organisms and their living and nonliving environment. This course offers a broad overview of behavioral ecology principles that govern these interactions. A variety of instructional practices and individual independent projects are used to investigate these principles.

661 PHYSICS Gr. 9 5 cr., 36 wks

A fundamental, activity-based physics course covering the topics of kinematics, dynamics, energy, power, heat, light, electricity and magnetism. This physics course, which meets the requirements for a laboratory science course, will seek to improve students' math skills and introduce students to higher order thinking as well as provide a foundation for chemistry and biology. This course is not designed for students considering careers in science related areas.

662 PHYSICS (CP) Gr. 9 5 cr., 36 wks

A laboratory based physics course covering the topics of kinematics, dynamics, energy, power, heat, light, electricity and magnetism. This physics course is designed to provide students with a knowledge base in physics for careers in the biological sciences, nursing, architecture and related areas of applied technology. This course will introduce students to higher order thinking as well as provide a foundation for chemistry and biology.

663 PHYSICS (H/Wt.) Gr. 9 7.5 cr., 36 wks

Co-requisite: Geometry (CP) or higher

A comprehensive, laboratory-based physics course covering the topics of kinematics, dynamics, energy, power, electricity, and magnetism. This physics course is designed to prepare students for careers in engineering, research or the physical sciences. Emphasis is on laboratory work from which the theory is developed and mathematical concepts applied. This course will introduce students to higher order thinking as well as provide a foundation for chemistry and biology. These students are strongly recommended to elect AP Physics in senior year.

668 AP PHYSICS "B" (H/Wt.) (AP/Wt.) 10 cr., 36 wks

Co-requisite: Honors Geometry higher

This AP Physics "B" course is a non-calculus based physics course which includes topics in mechanics, electricity and magnetism, waves, optics, heat and thermodynamics and modern physics. This course provides a comprehensive and systematic introduction to the main principles of physics. Understanding and applying physical principles to solve problems is a major goal of the course. This course is strongly recommended for students who are not taking calculus and who are planning on majoring in college in any of the sciences, engineering, computer science, mathematics, or health fields. Applicants may be screened using criteria of prior science grades, present science teacher recommendation, and standardized test results when available.

Note: All students taking this course will be encouraged to take the Advanced Placement Examination which is administered in the first two weeks of May. Please see the explanation of the Advanced Placement Program under the General Information section of the Curriculum Guide.

669 AP PHYSICS "C" (H/Wt.) (AP/Wt.) 10 cr., 36 wks

Sug. Pre.: Honors Physics or AP Physics "B"

Co-requisite: Calculus any level.

This rigorous college level course, taught from a college textbook is the equivalent of two semesters of a three semester introductory physics course required of science majors at most universities. Those students who have demonstrated high achievement in previous science courses should consider this course. Strong emphasis will be placed on solving a variety of challenging problems in mechanics and electricity and magnetism, and on analysis in the laboratory and classroom. Methods of calculus will be used extensively. Applicants may be screened using criteria of prior science grades, present science teacher recommendation and standardized test results when available.

Note: All students taking this course will be encouraged to take the Advanced Placement Examination which is administered in the first two weeks of May. Please see the explanation of the Advanced Placement Program under the General Information section of the Curriculum Guide.

SOCIAL STUDIES

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The Social Studies program consists of a required three-year core which emphasizes both American History and World History. The outline of the program consists of the following:

**9TH GRADE:
AMERICAN HISTORY I**

**10TH GRADE:
WORLD HISTORY**

**11TH GRADE:
AMERICAN HISTORY II
SOCIAL STUDIES ELECTIVES**

**12TH GRADE:
SOCIAL STUDIES ELECTIVES**

Students who are college bound and are interested in a concentration in history or the social sciences are strongly recommended to take 4 years (20 credits) of social studies, with an emphasis on honors and/or AP programs. Students who are college bound but not interested in a concentration in the above areas should consider taking at least 3½ years of social studies. Students not attending college should also consider expanding their social studies understanding by taking more than the required 3 years.

710 AMERICAN HISTORY I Gr. 9 5 cr., 36 wks

United States History I is the first half of a two-year sequence, which constitutes the central core component of the History/Social Studies program in the high school. This is a general course in American History. Students build on their past knowledge of American History by exploring topics in more detail and with greater depth of understanding. The two year required survey follows a flexible chronology which broadly covers the panorama of our nation's development over a period of three centuries from discovery and exploration to the view of the United States as a world power. Social, cultural, geographic, and economic themes and conflicts are stressed throughout the course as students survey domestic and foreign policy issues.

The subject matter of this course, although similar to college prep and honors level courses, will not be as demanding in terms of workload. By the end of the course, students will be able to comprehend basic

concepts and themes in American History. Additionally, a strong emphasis will be placed on improving student's basic social studies skills.

711 AMERICAN HISTORY I Gr. 9 (CP) 5 cr., 36 wks

The subject matter remains the same as the previous course. However, the workload and expectations will be different as students will be expected to read and comprehend primary historical documents, engage in individual and group research projects, write clear and historically accurate essays, deliver oral reports utilizing technology, and engage in other critical thinking skills and activities. Students will continue to build upon previously acquired social studies skills.

712 AMERICAN HISTORY I Gr. 9 (H/Wt.) 5 cr., 36 wks

The subject matter remains the same as the previous courses. However, the workload will be extremely demanding and challenging. Numerous essays, extensive note taking, frequent tests and quizzes, as well as comprehensive reading lists will be the norm. Students should possess a strong foundation in reading, writing, and critical thinking skills before accepting the challenge of this course.

700 WORLD HISTORY/ CULTURES Gr. 10 5 cr., 36 wks This comprehensive full year required course focuses on both Western and Non-Western History and cultures of the world. From the Renaissance and the Age of European domination, and into Modern Times, the emphasis is placed on historical themes, cultural influences, and geographic concepts.

The subject matter of this required course, although similar to the college prep and Honors/AP courses, will not be as demanding in terms of workload. By the end of the course, the students will be able to comprehend the basic concepts of World History, and a strong emphasis will be placed on improving the student's basic social studies skills.

701 WORLD HISTORY/ CULTURES (CP) Gr. 10 5 cr., 36 wks

The subject matter is similar to the previously listed World History course description. Although students will face a rigorous learning experience, this required course will not be as demanding as the Honors or AP levels. Students will be expected to read with comprehension, and to complete projects, written and oral reports, and essays which reinforce the concepts and the historical and cultural themes taught in the course.

702 WORLD HISTORY/ CULTURES (H/Wt.) Gr. 10 5 cr., 36 wks

The subject matter is similar to the previously listed World History/Cultures description. Students should possess a strong foundation in reading, writing, and critical analysis skills since the workload will be very extensive and demanding in this Honors level course.

703 AP WORLD HISTORY (H/Wt.) (AP/Wt.) Gr. 10, 11 & 12 5 cr., 36 wks

Prerequisites listed at the end of this section.

This AP World History course offers motivated students and their teacher the opportunity to immerse themselves in the processes that, over time, have resulted in the knitting of the world into a tightly integrated whole. AP World History offers an approach that lets students "do history" by guiding them through the steps a historian would take in analyzing historical events and evidence worldwide over a millennium. The course offers truly balanced coverage with Asia, Africa, the Americas, and Europe each represented. AP Students will be encouraged to take the Advanced Placement World History Test in May.

Students who elect to take this course should possess a strong foundation in reading, writing, and critical thinking skills since the workload will be very extensive and demanding in this AP course. Students should be mature enough to handle voluminous notes, long reading lists, and frequent papers and tests. Students who are seniors may also select this course as an elective.

730 AMERICAN HISTORY II Gr. 11 5 cr., 36 wks United States History II is the second half of the two-year sequence in American History. Students continue to build upon their knowledge of American History as they strive to understand the complex historical development of the United States. Emphasis is placed on the historical, economic, socio/cultural and political aspects of the democratic institutions which continue to support our democracy as it becomes more inclusive.

The subject matter of this required course, although similar to the college prep, Honors, and AP levels, will not be as demanding in terms of workload. By the end of the course, the students will be able to comprehend the basic concepts of the historical development of American History, government, and citizenship. A strong emphasis will be placed on improving.

731 AMERICAN HISTORY II (CP) Gr. 11 5 cr., 36 wks

The subject matter is similar to the previously listed American History II course description. Although students will face a rigorous learning experience, this required course is not as demanding as the Honors or AP level. Students will be expected to read with comprehension and to complete projects, written and oral reports, and write essays that reinforce the concepts and themes taught in the course. In addition to the above, all students will be required to complete a historical research project during the second semester of the course.

732 AMERICAN HISTORY II (H/Wt.) Gr. 11 5 cr., 36 wks

Prerequisites listed at the end of this section

The subject matter is similar to the previously listed American History II course description. However, embedded within the Honors level course will be a rigorous examination of the historical development of American government and citizenship. Although the subject matter is factual, emphasis will be placed on the critical evaluation of issues, and on the analysis of primary source documents. The students should have a strong foundation in reading, writing, and critical thinking skills as the workload will be very demanding at the Honors level. Students should be mature enough to handle voluminous notes, long reading lists, and frequent papers.

740 AP AMERICAN HISTORY (H/Wt.) (AP/Wt.) Gr. 11 or Gr. 12 5 cr., 36 wks

Prerequisites listed at the end of this section.

A vigorous examination of American History will be undertaken in this AP course. Although the subject matter is factual, emphasis will be placed on the critical evaluation of issues and on the analysis of primary source documents. The students should possess a strong foundation in reading, writing, and critical thinking skills since the workload will be very extensive and demanding. Students should be mature enough to handle voluminous notes, long reading lists, and frequent papers and tests. Students will also be encouraged to take the Advanced Placement Test offered in the spring for possible college credit. This course may be taken as a senior year elective.

JUNIOR AND SENIOR YEAR ELECTIVES

733 AP UNITED STATES GOVERNMENT AND POLITICS Gr. 12 5 cr., 36 wks (N)

Prerequisites listed at the end of this section.

The course presents an analytical perspective on the historical development of American government, politics, and citizenship. Students will study the general concepts used to interpret American politics, and will analyze case studies. Extensive preparation is required, and the students will be encouraged to take the Advanced Placement Test offered in the spring for possible college credit. In addition to the above, all students will be required to complete a historical research project during the second semester of the course.

741 AP PSYCHOLOGY (H/Wt.) (AP/Wt.) Gr. 11 & 12 5 cr., 36 wks

Prerequisites listed at the end of this section.

This full year course traces the development of psychological theory and practice. Scientific and social science methods will be emphasized and the student is expected to prepare extensively for this advanced course. All students are encouraged to take the Advanced Placement Test in this area in the spring for possible college credit.

742 AP ECONOMICS (MICRO) HUMAN GEOGRAPHY (H/Wt.) (AP/Wt.) Gr. 11 & 12 5 credits, 36 weeks

Prerequisites listed at the end of this section.

Microeconomics is a thorough study of the principles of economics that apply to the functions of individual decision makers within a larger economic system. This course places primary emphasis on the nature and functions of product markets, factor markets, and the role of government in promoting greater efficiency and equity in the economy. The Human Geography segment of the course will infuse a spiraling approach with the microeconomics aspect of the curriculum. Human Geography is the systematic study of geographic patterns and processes that have shaped human understanding, use, and alterations of the earth's surface. Landscape analysis and spatial concepts are used to evaluate human social organizations. Economic development and its environmental consequences will also be evaluated. The students should possess a strong foundation in reading, writing and critical thinking skills since the workload will be very extensive and demanding. Students should be mature enough to handle extensive reading lists, discussions and frequent evaluations. Students will also be encouraged to take the Advanced Placement Tests offered in the spring for possible college credit. Students have the opportunity to take one or both of the AP exams offered by the College Board.

Note: this is a full year course and students cannot sign up for just one of the segments.

Prerequisites for Honors/AP courses may include the following minimums:

1. At least a B average in previous social studies courses.
2. Completion of an application form which shall include the following:
 - a. Recommendation of social studies teacher. Other teacher's recommendations may also be required for some courses.
 - b. Approval signature of department chair.
 - c. Signature of student and parent.
3. A copy of this application form, which may include a sample of the student's writing, must be filed with the Social Studies department chair in accordance with scheduling guidelines.
4. Other requirements, such as formal interviews with members of the social studies staff, may also be required for specific Honors/AP courses.

743 PSYCHOLOGY (CP) (V) Gr. 11 & 12 2.5 cr., 18 wks

College Prep Psychology is an introductory course to the field of psychology with an emphasis on understanding human behavior from various perspectives. Topics covered are: history of psychology, research methods, learning and memory, human growth and development, social behavior and normal and abnormal behavior. Students will also get a chance to understand how their own personality has developed and through studying familial patterns and birth order. Open to juniors and seniors only.

744 INTRODUCTION TO THE SOCIAL SCIENCES (CP) Gr. 11 & 12 2.5 cr., 18 wks

By focusing on the related fields of sociology, anthropology, economics, and psychology, students will have an opportunity to investigate areas of current interest to the social scientist. Topics may include the following: culture and ethnicity, the changing family, social class and the American dream, conformity and deviance, gangs and organized crime, death, dying and old age, as well as minority and group relations. Through this course, students will be exposed to the study of human behavior and will have an

opportunity to gain an understanding of modern day society.

745 CRIME AND JUSTICE (CP) Gr. 11 & 12 2.5 cr., 18 wks

This course examines all aspects of crime and justice in America. It surveys the causes of crime, crime statistics, and controversial areas such as the death penalty. Special emphasis is placed on the Constitutional amendments that relate to criminal law and the student has the opportunity to participate in mock trials to gain a better understanding of the legal process. The student also has an opportunity to participate in a field trip to a prison.

747 ANCIENT HISTORY (CP) Gr. 11 & 12 2.5 cr., 18 wks

This course is a study of the ancient civilizations of Egypt, Mesopotamia, and the classical periods of Greece, and Rome, including the findings of archaeological expeditions.

748 ROOTS OF INTOLERANCE Gr. 11 & 12 (CP) (V)2.5 cr., 18 wks

This half year course, Roots of Intolerance, will explore the historical, psychological, socio-economic, and political forces that have bred intolerance towards groups of people based on their race, religion, and ethnicity. Particular emphasis will be placed on outcomes of such intolerance that led to genocide. Case studies will include, but not be limited to: Native Americans, the Irish, the Armenians, the Holocaust, Khmer Rouge in Cambodia, Communist purges, and Rwanda.

A variety of teaching methods will be employed. Students will be expected to analyze primary sources, including first hand accounts, photographs, documents, and artifacts. Students will utilize research and presentation skills in this interactive course. Highlights of the course will include guest speakers, an assessment of Hollywood treatments of genocide, and class trips to sites such as the Holocaust Museum in Washington, DC.

749 CONTEMPORARY WORLD PROBLEMS (CP) Gr. 11 & 12 (V) 2.5 cr., 18 wks

This half year course is designed to have students analyze and assess international issues and events that are up to date and are of significance to the world in which we live. To an extent course materials and content will be drawn from the front page of daily papers, from weekly newspapers, from weekly news magazines, and network news programming.

Thematic units will include a variety of topics such as: environment and human ecology, the global economy, political shifts in the post Cold War era, terrorism, AIDS, human rights, international institutions, world cultures and geography, conflict and conflict resolution.

Students who take this course should have a keen interest in current events and world affairs. The course will provide students with an opportunity to become more aware of the challenges that the world community faces in an ever changing, global environment.

750 INTERNATIONAL RELATIONS (CP)(N) Gr. 11 & 12 2.5 credits, 18 weeks

This course will provide students with specific instruction regarding the complexities of the post 9/11 world and American diplomacy with international institutions, organizations, and nations. Consideration will be given to the international political system's major actors, the nature of conflict and war, and how countries cooperate and why. Students will learn that the 20th century conflict of ideologies has been replaced today by the conflict between competitive civilizations. Topics of study include conflicts between the Western and non-Western world, terrorism, the proliferation of weapons of mass destruction, globalization of the international economy and the management of international conflict.

751 MEDIA IN AMERICAN CULTURE (V) Gr. 11 & 12 2.5 credits, 18 weeks (Not offered in 2011 – 2012)

This course encourages a rigorous examination of how our American culture gives rise to certain forms of media and how media shapes our society. Through an inquiry approach including frequent analytical writing and discussion, students will consider questions such as: How do the mediums of print, television, film, music, and the internet impact communication in the democratic process? To what extent does advertising affect our cultural values? Do the media fairly represent social diversity? Is news constructed to reveal truth and foster community? By posing and addressing these and other fundamental questions, students will develop a process for analyzing media content.

752 ECONOMICS TODAY (CP) (N) (V) Gr. 11 & 12 2.5 credits, 18 wks

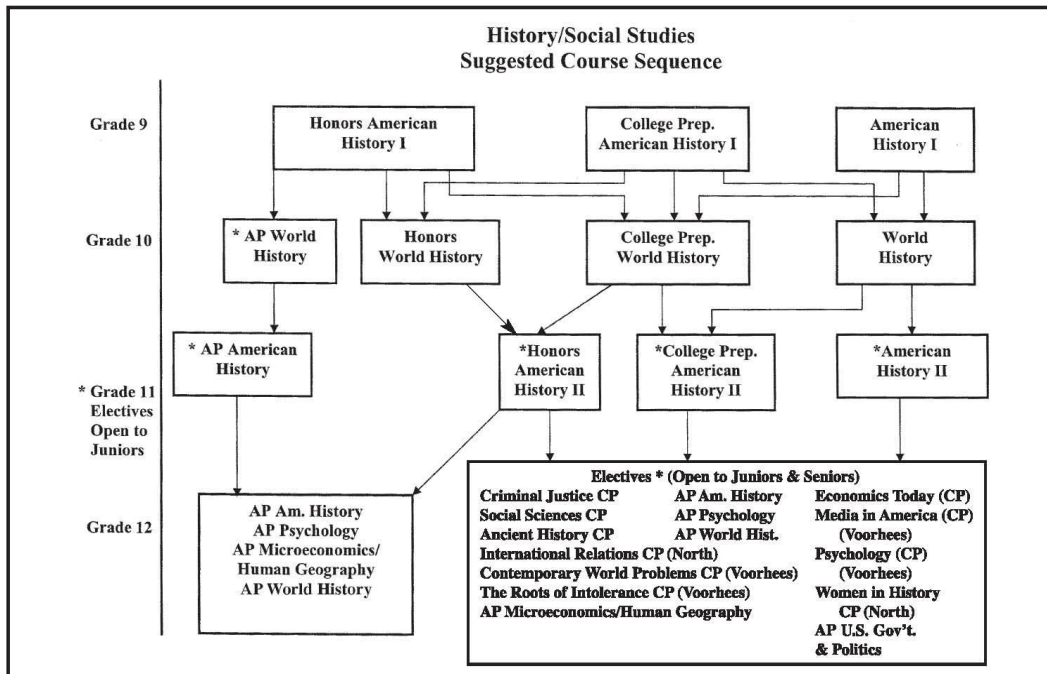
This one-semester course is designed to introduce students to the study of economics in order for them to gain an understanding of the American economic system. This course will provide students with a dynamic, application-rich approach to learning economics. In today's interconnected world, it is imperative that students gain an understanding and appreciation of the importance of economics and how it relates to their everyday lives. The course will provide students with specific instruction regarding the complexities of the corporate world, supply and demand, free enterprise, the Federal budget, taxes, unemployment, GNP, American and international economic institutions, and trade with other nations. Students will explore the costs and benefits of proposed solutions to our nation's economic challenges. Economics Today is designed to prepare students for entry level college courses or for students who might be interested in taking AP Microeconomics/Human Geography.

753 WOMEN IN HISTORY (CP) (N) Gr. 11 & 12 2.5 cr., 18 wks (Not offered at Voorhees 2011 – 2012)

This half year course focuses on the historical role of women including women as agents of social change, and it will also examine the changing role of women by exploring their general treatment in certain historical time periods and how certain women challenged those prescribed roles. The course will include a study of various time-periods and interpretations of the role of women from ancient warriors, to medieval damsels in distress, to the modern women. The course will explore how the treatment of women varied over time, as well as from culture to culture.

770 FINANCIAL LITERACY MONEY MATTERS Gr. 9-12 (N) (Req.) 2.5 cr., 18 wks Gr. 11-12 (V) (Req.) 2.5 cr., 18 wks

This state mandated personal financial literacy course is designed to alert, inform, and educate students in concepts of personal finance and money management. Students will begin to develop the skills and strategies that promote personal and financial responsibility related to financial planning, savings, investment, and charitable giving in the global economy. Effective money management is a disciplined behavior. It is difficult to master, and much easier when learned earlier in life. This course will start students on a path toward being in control of their financial futures. Five broad topics will be the foundation of the course: college and career planning, money management, savings and investing, income, and spending. The course will teach students to search and assess college and career opportunities, identify and prioritize their personal money management goals, develop personal spending and savings plans, comprehend the impact of time on the value of money, understand the cost of using credit, and protect assets. Please note: this a standalone, independent, state mandated graduation requirement that does not count toward the 15 credit State Social Studies or Math requirement or 5 credit requirement in Practical Arts.



SPECIAL EDUCATION

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The Special Education Program is structured to address the goals and objectives in each student's Individual Educational Plan. Classes are designed to meet the unique needs and abilities of the diverse adolescent learner.

Within the high school setting, the continuum of options offered to students with special needs includes general education classes, resource programs and special class programs. Classes are designed to facilitate skill development supporting transition to adult life in the least restrictive environment.

All special education program placements for students are determined via the IEP team process.

803 EMPLOYMENT ORIENTATION PROGRAM (EOPI) Gr. 9-12 (N) 15 cr., 36 wks

The Employment Orientation Program (EOP 1) is focused on teaching students skills that are necessary in the workplace. The program will run similar to a Kinko's Center where the students will be learning skills such as copying, engraving, printing, laminating, and poster making. Aside from the hands-on-experience they will receive in the classroom, they will be learning important skills that are relevant to the employment world.

Change the current one in the guide to Employment Orientation Program (EOP II) 804

804 EMPLOYMENT ORIENTATION PROGRAM Gr. 9-12 (N) 15 cr., 36 wks

805 COMMUNITY BASED INSTRUCTION SPECIAL CLASS PROGRAM Gr. 9-12 (N) 15 cr., 36 wks

The Community Based Instruction Class is designed to provide naturally occurring life experiences for

students with special needs. This program consists of small group and/or individual instruction in community settings.

The classroom instructional component parallels the community learning experience for each student. The class is designed to assist students to function independently.

Student schedules may include additional elective subjects.

805 PREPARING for INDEPENDENT LIVING OPPORTUNITIES AND TRANSITION (PILOT) Gr. 9-12 (N) 15 cr., 36 wks

Preparing for Independent Living Opportunities and Transition is designed to provide naturally occurring life experiences for students with special needs. Transitional and life skill instruction is provided in the classroom as well as in the community. This small group instructional setting is designed to promote independence for students.

LEARNING AND/OR LANGUAGE DISABILITIES PROGRAM Gr. 9-12 (N) 15 cr., 36 wks

811 English

812 Math.

813 SS/Sci.

English, math, science, and social studies are offered within the special class program designed to meet the academic needs of each individual student. Instruction is varied to include both individual and group teaching. The structured learning environment encourages success while promoting student responsibility and self-discipline.

**818 CAREER EXPLORATION/MENTORING (N)
Gr. 11-12 15 cr., 36 wks**

The career exploration program is a community based vocational training program. This course affords students the opportunity to be mentored at approximately eight different businesses. The job sampling component helps students transfer job related skills across work settings, and make an informed decision regarding their future vocation.

819 CAREER DEVELOPMENT (N) Gr. 11-12 15 cr., 36 wks

The Career Development program is for students previously enrolled in the Career Exploration program. Students are provided opportunities to further refine their skills in career areas of student interest.

850 READING I 5 cr., 36 wks

Two intensive intervention programs created by Scholastic, System 44 and READ 180, are used in the class to help accelerate academic achievement for struggling readers. System 44 systematically integrates lessons on sounds, sound spellings, high-utility sight words, and strategies for unlocking multisyllabic words, providing deep instruction and systematic, adaptive practice. Read 180 is an intensive reading intervention program designed to meet the needs of students whose reading achievement is below the proficient level. Both directly address individual needs through adaptive and instructional software, high-interest literature, and direct instruction in reading and writing skills. These instructional models enable the acceleration of struggling readers toward grade-level reading proficiency through a proven balance of direct instruction, small-group differentiation, and individual practice.

850B READING II 5 credits, 36 wks

This course is a continuation of Reading I. Students will continue to increase fluency, reinforce phonemic

approaches and practice decoding.

REPLACEMENT RESOURCE CENTER PROGRAM

REPLACEMENT RESOURCE CENTER PROGRAM

Gr. 9-12 5 cr., 36 wks

851-854	ENGLISH 9-12
855-858	MATH 9-12
859-861	SCIENCE 9-11
863-865	SOCIAL STUDIES 9-11

English, math, science and social studies instruction are provided to students requiring a highly individualized learning program to commensurate with their specific needs and abilities. The program's focus is on remediating, developing, and improving skills in the core curricular areas.

868 STUDY SKILLS CURRICULUM Gr. 9 5 cr., 36 wks

The purpose of the 9th grade Study Skills Curriculum is to develop skills which will allow each student to effectively transition into high school, self advocate, and heighten awareness of a variety of learning strategies. This course will also provide educational tools that be can accessed in the regular education setting. The class is designed to encourage students to define, explore and understand their learning styles. The goal of the program is for each student to demonstrate successful implementation of the educational and technological tools that have been acquired through a variety of student-centered exercises and multi-media presentations.

869 STUDY SKILLS Gr. 10-12 5 cr., 36 wks

The purpose of the 10-12th grade Study Skills Curriculum is to lead students through a variety of study skills in order to enhance academic and work performance. Topics will include self advocacy, IEP process, organization, time management, memory skills, test taking strategies, note-taking and reading comprehension. The goal of the program is for each student to demonstrate successful implementation of the educational and technological tools that have been acquired through a variety of student-centered exercises and multi-media presentations.

870 ALTERNATIVE LEARNING CENTER SPECIAL CLASS PROGRAM Gr. 9-12 (V) 15-30 cr., 36 wks TRANSITIONAL 870 LEARNING CENTER SPECIAL CLASS PROGRAM Gr. 9-12 (N) 15-30 cr., 36 wks

871-874	ENGLISH 9-12
875-878	MATH 9-12
879-881	SCIENCE 9-11
883-886	SOCIAL STUDIES 9-12

890 STUDY SKILLS

The Alternative Learning Center and the Transitional Learning Center are programs for students whose primary concern is the resolution of emotionally related issues. The purpose of the

program is to provide students with the opportunity to develop the skills necessary to succeed. Student schedules may include additional elective subjects.

ADULT TRANSITIONAL COMMUNITY (V) Gr. 9-12

This program is designed to address the goals and objectives in each student's individualized Education Plan. Students receive instruction in a small group and/or individual setting. The classroom is intended to facilitate skill development supporting transitional needs for adult life.

SUPPORT IN-CLASS PROGRAM COURSES Gr. 9-12 5 cr., 36 wks 2.5 cr., 18 wks

ENGLISH 9-12

MATH 9-11

SCIENCE 9-11

SOCIAL STUDIES 9-11

An in-class program is provided in the general education class environment. The program provides students the support of a special education teacher as well as the content area teacher.

TECHNOLOGY EDUCATION

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What Is Technology Education?

Industrial Arts has evolved to Technology Education. The Technology curriculum is a dynamic, hands on program of study that teaches students about the development and applications of technology and the effects technology has on individuals, society, and the environment. Its goal is to develop the technological literacy and capabilities of all students so that they will be better prepared for success in a highly technological society. The course curriculums are delivered through an articulated series of *design and problem solving activities* in which students apply knowledge to solve practical real-world problems. It teaches students *how to think*, not what to think, *how to learn*, not what to learn.

Successful completion of any of these courses meets the practical arts graduation requirement.

450 DRAFTING AND DESIGN 2.5 cr., 18 wks

This exciting introductory course to Drafting and Engineering Design introduces students to basic graphic communication techniques that are broad in scope and exploratory in nature. Students are introduced to engineering, drafting and design skills necessary for effective technical communication found in today's top industries and businesses. Fundamental drafting techniques are covered including: technical sketching, traditional drafting, orthographic projection, pattern making, isometric and perspective drawings, and CAD. This course is for students interested in design, engineering, architecture, mathematics or science as

well as other related careers.

453 ENGINEERING/CAD I Gr. 9-12 2.5 cr., 18 wks

Prerequisite: Drafting and Design #450

This is a half year course where students acquire the basic skills necessary to discover solutions to design problems using hands-on activities. Students will explore engineering design concepts using two dimensional and three-dimensional CAD software as well as hands-on modeling, product aesthetics, and the ergonomics of product design. An individual approach will be used to enable students to express their ideas with creativity, clarity, and precision. Students interested in design, engineering, architecture, mathematics or science should consider taking this course.

454 ENGINEERING/CAD II Gr. 10-12 2.5 cr., 18 wks

Prerequisite: Engineering/CAD I #453

This half year course is designed to have students use hands-on skills to complete solutions to design problems. Through the use of computers, students will be exposed to technical communication software that includes 3D modeling and animation programs. In addition, this course provides students with the opportunity to develop advanced 3D modeling, printing and presentation skills with the study and application of material mapping, lighting techniques, shadowing, perspective viewing, rendering, photo image output, slide shows, 3D animation, and hands-on material modeling. Students interested in design, engineering, architecture, mathematics or science should consider taking this course.

456 ENGINEERING/CAD III Gr. 10-12 5 cr., 36 wks

Prerequisite: Engineering/CAD II #454

Taking Engineering Drawing/CAD II I will give students an advantage of a hands-on course designed to prepare them for an engineering or related field of study for college. Students will use CAD software to solve engineering design problems through advanced design challenges. Students will be required to create portfolios for their designs or redesigned products and then develop prototypes using solid molding techniques. Design activities involve graphic, mechanical, structural and electronic systems. It is highly recommended for students interested in any technical field such as engineering, science, physics, mathematics, or computer science. This approach to technical communication and problem solving gives students an advantage in post high school studies.

457 ARCHITECTURAL DRAFTING AND DESIGN I 2.5 cr., 18 wks

Prerequisite: Drafting and Design #450

The Architectural Design I course introduces students to the fundamental skills and concepts used by architects, civil engineers, and builders. Through the use of architectural design software and hands-on design challenges, students will produce architectural house plans, CAD drawings, and presentations of their designs. Emphasis is placed on the planning and design of residential structures with the efficient use of space and room layout. Site development, construction techniques, historical style periods and aesthetic considerations are also explored. Students will develop their own floor plans, cross sections, elevations, and two-point perspective drawings.

458 ARCHITECTURAL DRAFTING AND DESIGN II 2.5 cr., 18 wks

Prerequisite: Architectural Drafting and Design I 457

Architectural Design II is an advanced hands-on course that combines the drafting and CAD skills from the prerequisite courses with additional knowledge and skills related to the Architectural field. Students are taught advanced drawing techniques, the design loop, the construction of scale models, and design

considerations.

Students solve long-range problems through the interaction with the American Institute of Architects via design competitions that require the application of critical thinking skills. This course is highly recommended for students planning a career in architecture, engineer, construction trades or related design fields.

484 APPLIED TECHNOLOGY (N) AND DESIGN 2.5 cr., 18 wks

This course is designed to give students the opportunity to try new ideas and generate creative solutions to technical problems. The problem-solving design process is used along with the application of basic skills related to math, science and other related subjects to try new ideas and solve “*real world*” problems. Group and individual hands-on activities will be used that encourage creative and critical thinking skills. Modeling and prototyping will be used to present solutions to problems.

490 GRAPHIC COMMUNICATION TECHNOLOGY I 2.5 cr., 18 wks

Graphic Communication Technology provides students with the knowledge and techniques that will be used throughout their high school years and beyond to present ideas to others using various forms of media. Students will learn about the principles of design, basic color theory, and typography. Students will use these concepts as well as creative and critical thinking skills to solve design problems. Activities include: t-shirt design, web page design, product design, billboards, CD covers, posters, and more. Students will use design software such as Photoshop and Fireworks to create graphics. This course is recommended for students interested in the printing and publishing industry, communications, web design, or other related fields.

491 GRAPHIC COMMUNICATION TECHNOLOGY II 2.5 cr., 18 wks

Prerequisite: Graphic Communication Technology I #490

This course allows students to use advanced presentation techniques to solve practical, real world design problems. Student’s present ideas using computer graphics, animation, printing and various forms of media gain skills and knowledge of what effective communication is. Hands-on activities are used that encourage creative and critical thinking skills. Activities include: logo design, resume design, and product design. This course is primarily designed to further students’ interests for the many varied careers available in the commercial printing, newspaper and advertising fields.

492 WEBPAGE DESIGN/ANIMATION 2.5 cr., 18 wks

This is an introductory course to the software, techniques, and theory of building a web site for school, personal use, or for employment opportunities. Students also learn several basic methods used to animate graphics. Hands-on experience will involve using cutting-edge software such as FrontPage, Dreamweaver, Fireworks, Flash, Adobe Photoshop, and other related products. Web Page Design and Animation are skills that will benefit any student going to college or starting their own business.

494 WEBPAGE DESIGN/ANIMATION II 2.5 cr., 18 wks

Prerequisite: Webpage Design Animation #492

This course is a continuation of Webpage Design/Animation. It is an area of instruction that addresses the technology, knowledge and skills required for college bound students and for the workplace. The course explores presentations and Web pages utilizing text, graphics, sound, video, and 2D and 3D animations. This course simultaneously examines both the theory and the practice of new media.

495 ROBOTICS AND AUTOMATION (N) Gr. 10-12 2.5 cr., 18 wks

Prerequisites: Any 5 credits of Technology Education or Agriculture Classes.

This course provides an introduction to automatic control and computerized systems. Students will analyze and construct remote and computer controlled electronic systems, program a robot, operate computer controlled manufacturing equipment and learn about the power systems that make robotics possible. Each student will design, build, and test a robot or automated system. Additionally, they will

explore the principles and issues related to the use of automation in contemporary society.

069 SMALL ENGINES I Gr. 9-12 (N) 2.5 cr., 18 wks

Each student in this course will inspect, repair, and maintain a small gasoline engine. An understanding of the basic principles in small engine operation and the proper use of tools will be stressed in this laboratory course.

070 SMALL ENGINES II Gr. 9-12 (N) 2.5 cr., 18 wks

Sug. Prerequisite: Small Engines I

This course will build upon the basic principles that students learned in Small Engines I. Students will take an advanced look into the cooling, lubrication, carburetion and ignition systems of both four and two stroke engines. Along with internal combustion engines, other time and labor saving engines and motors will be discussed. These devices include diesel engines, rocket and jet engines, electric motors and other alternative sources of power.

072 LANDSCAPE DESIGN Gr. 9-12 2.5 cr., 18 wks

Landscape Design is a course that will direct the student in developing an appropriate landscape plan. The student will also become able to estimate the cost of various landscapes, from planning to completion.

WORLD LANGUAGE

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The North Hunterdon/ Voorhees High School District offer sequential study in French, German, Latin, and Spanish. A student may begin a sequence of study in any grade. Each level is a prerequisite for the next higher level. Students begin by developing basic skills in listening, speaking, reading, and writing. With each level, the degree of fluency and the complexity of the grammar and reading material increase. Through the study of language, students acquire critical thinking skills applicable to other academic studies. Students are encouraged to study more than one world language. Juniors and Seniors are encouraged to begin a second or third World Language. Modern Language classes are conducted in the target language, and stress the acquisition of communicative competency. In Latin, emphasis is placed on understanding the link between Latin and English. The advantages and benefits of studying a world language include the broadening of the student's knowledge of the world, improving grammar skills in both English and the second language, enhanced career opportunities in business, the military, medicine, law, the arts, history, science, social work, and many other fields.

300 FRENCH I

340 SPANISH I

5 cr., 36 wks

Core Level I courses involve the student in the aural and oral activities in the target language while, at the same time, integrating other disciplines (mathematics, music, art, history, family, consumer science, etc.) as well as the culture of the languages. Students are encouraged to speak in the target language and, while written tests are also utilized, the spoken word and each student's oral participation in the classroom are major components. These courses are an alternative to the traditional CP Level I Class.

301 FRENCH II

341 SPANISH II

5 cr., 36 wks

This is a continuation of the Level I courses beginning where the Level I ended. It utilizes a variety of different cultural sources, with special attention given to pronunciation; there is a concentration on the listening and speaking aspects. Much stress is placed on the actual learning and performing of the language, and an understanding of the culture, customs, life-styles, civilization as well as its influence on other peoples.

LEVEL I

302 FRENCH I CP

311 GERMAN I CP

342 SPANISH I CP

5 cr., 36 wks

This course develops language skills through a series of activities, such as pronunciation, vocabulary, idiomatic expressions and grammar. These skills are the basis of communication in the target language. During the year the ability to comprehend and speak the language is strengthened. Activities integrate the culture and heritage of the language studied.

LEVEL II

303 FRENCH II CP

312 GERMAN II CP

343 SPANISH II CP

5 cr., 36 wks

As in Level I courses, oral and written skills are emphasized. The proficiency in pronunciation, vocabulary, idioms, and grammar supports sustained oral and written communication and reading comprehension. Writing and reading activities integrate the culture and heritage of the language studied.

LEVEL III

304 FRENCH III CP

313 GERMAN III CP

344 SPANISH III CP

5 cr., 36 wks. Speaking, oral comprehension, reading, writing and culture are the primary goals of every language course. Level III provides continued enhancement of the language skills, vocabulary, and grammatical constructions in oral and written communication. There will be continued development to understand the spoken and written language and to speak it accurately and fluently.

349 SPANISH III (H/WT) 5 cr., 36 wks

The subject matter is similar to the College prep Spanish III course listed above. However, this course is offered to students of above average ability and performance who want to pursue excellence and sophistication in listening, speaking, reading, and writing Spanish. To enroll in Honors Spanish III, students must obtain the approval of their Spanish Level II teacher and have a final average of B or better. Speaking, oral comprehension, reading, writing, and culture are the primary goals of every language course. Honors Spanish III provides continued enhancement of the language skills, vocabulary and grammatical constructions in oral and written communication. There will be continued development to understand the spoken and written language and to speak it accurately and fluently. Various forms of literature are introduced and used in instruction. This class will be conducted primarily in Spanish.

LEVEL IV

305 FRENCH IV (H/WT)

314 GERMAN IV (H/WT) (V)

345 SPANISH IV (H/WT)

5 cr., 36 wks The goal of the fourth year classes is to attain fluency of written and oral

expression as well as extensive comprehension of the language. Classes are conducted in the target language. The language is used in a variety of situations. Critical thinking skills as well as fluency of expression are developed through thematic units, activities and oral and written expressions. Some aspects of culture are studied. In addition masterpieces of literature in the language are examined.

GERMAN IV (H/WT) (N)

There are multiple distinct German IV courses being offered in order to meet the needs of our student population. The courses are offered in alternating years so that students have the opportunity to further their study of Germany. The cultural themes for each course are different while the grammatical structures covered are the same.

316 GERMAN LEVEL IV (H/WT) CONTEMPORARY ISSUES IN MODERN GERMANY (N)

5 cr., 36 wks

This course is designed for advanced students who have successfully completed German III or German IV Culture and Civilization. It covers issues of life in modern Germany including but not limited to personal relationships, multi-cultural society, environmental issues, university studies, and opportunities for young people in the today's working world. This course expands the students' speaking, writing, and reading abilities. A variety of materials are used including authentic text, short stories and poetry, and online source material.

GERMAN LEVEL IV (H/WT)

318 GERMAN CULTURES AND CIVILIZATION (N)

5 cr., 36 wks

This course is designed for advanced students who have successfully completed German III or German IV Contemporary Issues in Modern Germany. It covers the development of the German civilization and culture from Medieval Germany through the early twentieth century. Emphasis will be placed on German art, literature, music, and history. This course expands the students' speaking, writing, and reading abilities. A variety of materials are used including legends, poems, short stories, essays, musical selections, and works of art.

LEVEL V

347 SPANISH V (H/WT)

5 cr., 36 wks

Level V offers the opportunity to discuss, and read different types of texts. Through reading of selected materials you will improve your vocabulary and comprehension. Classroom activities will include discussions, conversations, role playing and oral reports. Written assignments will include grammar review, and creative writing. Culture units will be utilized through a variety of audio-visual materials, special activities, and projects.

307 AP FRENCH LANGUAGE

346 AP SPANISH LANGUAGE

5 cr., 36 wks

The Advanced Placement course is intended for those students who plan on taking the Advanced Placement Examination in May. This course is designated by the Advanced Placement program as a preparation for the Advanced Placement Examination. It is comparable to a college-level course. Great emphasis is placed on the mastery of listening, speaking, reading, and writing skills. A review of grammar, development of vocabulary, and communicative abilities in both

oral and written forms are mastered. Critical thinking in fluent oral expression and written composition is necessary. Students interested in enrolling in Advanced Placement World Language courses must obtain the approval of the Level IV instructor.

348 AP SPANISH LITERATURE (V)

5 cr., 36 wks

The AP Spanish Literature program is designed to prepare students to understand lectures in Spanish and to participate actively in literary discussions in Spanish; to perform a close reading of modern Hispanic literary texts in all genres; and to analyze the form and content of literary works, both orally and in writing, using appropriate terminology. The program is intended to replace the equivalent of a third-year college “Introduction to Hispanic Literature” course, covering selected works from the literatures of Spain and Spanish America.

321 LEVEL I LATIN I CP

5 cr., 36 wks

The first year Latin course guides students to mastery of the fundamentals of Latin vocabulary and use and an understanding of the essential linguistic connection between Latin and English. From the study of Latin I, students gain a new awareness of their native tongue, and understanding of classical civilization and the best possible foundation for learning modern languages.

LEVEL II

322 LATIN II CP

5 cr., 36 wks

This course continues to guide students to increased skills in Latin vocabulary and word building, and in English derivation study. The course emphasizes the essentials of Latin syntax and also develops the student’s understanding of the Republican period of Roman history.

LEVEL III

323 LATIN III /H 5 cr., 36 wks

The readings of original Latin authors like Cicero strengthen translation skills and broaden the student’s knowledge of Latin. Syntax and vocabulary are mastered so that the reading of original texts may lead to an appreciation of the classical expression of thought and the history and culture that are associated with the text.

324 LEVEL IV AP LATIN VERGIL 5 cr., 36 wks

This course consolidates the vocabulary, syntax and derivational skills covered in Latin I, II, and III. Students will be reading the Aeneid to coincide with the Advanced Placement syllabus so that the students may take the exam in May. The emphasis is on translation and literary analysis.

325 LATIN LITERATURE (V)

5 cr., 36 wks

This course is designed for advanced students who have completed all other Latin courses. It follows the Advanced Placement syllabus and authors such as Catullus, Horace and Ovid will be covered. Emphasis is placed on translation and literary analysis.

POLYTECH

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Polytech courses consist of one or two-year programs of study in which students learn the skills that will prepare them for post-secondary educational opportunities or immediate entry into the workforce. Our

students work with state-of-the-art equipment and receive hands-on training in a variety of fields. Many of our programs also offer articulation agreements with various post-secondary schools enabling students to earn college credits while still in high school. All of our shared time programs give students the opportunity to enroll in a Polytech program and also attend their home high school. Programs are scheduled by the student's home school guidance counselor and transportation is also provided by the home high school. For additional information, please call the Admissions Department at 908-806-8555 ext. 103. Students may apply on-line by visiting www.hcpoly-tech.org, or by obtaining an application from their home school guidance office.

EQUAL OPPORTUNITY /AFFIRMATIVE ACTION

It is the policy of the Hunterdon County Polytech School District not to discriminate on the basis of race, color, creed, religion, sex, ancestry, national origin, social or economic status, or disability in its educational programs or activities and employment policies as is required by Title IX of the Educational Amendments of 1972 and N.J.A.C. 6:4-1.1 et. seq. Inquiries regarding compliance may be directed to our Affirmative Action Officer, Sharon Fleming, at 908-806-3855 or our 504 Compliance Officer, Jenifer Yawger, at 908-284-1444.

Please note: Unfortunately, we cannot guarantee that any of the following programs will be offered or continued at their current locations due to enrollment constraints.

Location key:

C: Hunterdon Central

B: Bartles Corner

AUTOMOTIVE

955P AUTO BODY RESTORATION AND REPAIR

(C) Grades: 11-12 15 cr., 36 wks

ASE Certified

The National Institute for Automotive Service Excellence (ASE) certified program will prepare the student for a career in the automotive collision repair and restoration industry. All classroom theory is applied directly to the repairing of vehicles in our state-of-the-art facility. Major units of study include safety, standard and custom paint services, spray gun techniques, air brushing techniques, pin striping, the use of power and hand tools, masking techniques, dent removal, application of plastic fillers, MIG welding, aftermarket electronics installations, automotive maintenance and estimating repair costs.

956P AUTO BODY RESTORATION AND REPAIR 2

(C) Grade: 11-12 15 cr., 36 wks

Prerequisite: Auto Body 1 ASE Certified

The second year of the program will enhance students' hands-on skills and diagnostic techniques.

The focus of the program is on performing modification to engines, suspensions, custom body modifications, restoration, custom paint servicing and sound system upgrades. Students may focus on specialized areas of interest to accomplish a higher level of proficiency and are able to participate in school-to-careers program to obtain on-the-job real world work experience during school hours.

958P AUTOMOTIVE SERVICES

(C) Grades: 10-12 15 cr., 36 wks

This is the perfect course for the student who wants to work on cars. This program will prepare you to do routine automobile service work such as brakes, tune-ups, and shocks/struts, tire services, and exhaust system repair and lubrication work. This program includes basic welding, auto detailing and basic small engine maintenance.

962P AUTOMOTIVE SERVICES OFF ROAD

(C) Grades: 10-12 15 cr., 36 wks

Students will repair two and four-cycle engines, and engines found in motorcycles, tractors, lawn equipment, jet skis, outboards, snowmobiles, and ATVs. This is the perfect course for the student who wants to work on cars, but doesn't want to get into high-end electronic diagnostic work. This program will prepare you to do routine automobile service work such as brakes, tune-ups, and shocks/struts, tire detailing, basic small engine mechanics, and auto bodywork.

959P AUTOMOTIVE TECHNOLOGY 1

(C) Grades: 11-12 15 cr., 36 wks

NATEF/ASE

Automotive technicians today are smart professionals who work in a technical environment. This "career oriented" program is certified by the National Institute of Automotive Excellence (ASE), and the National Auto-motive Technicians Education Foundation (NATET). Students in this first year course service clients' vehicles as they receive instruction and live vehicle practice in the following areas: safety and shop operations, vehicle maintenance services, pre-delivery inspections, basic welding, batteries, basic electrical, engine fundamentals, heating and cooling systems, brakes, tires, steering and suspension, basic drivelines, M/T and A/T Maintenance, basic MIE, electric arc, and oxyacetylene welding. This ASE/NATEF certified program emphasizes safe, professional work on client vehicles. Job shadowing and participation in a full time summer mentorship at a local dealership may be available for qualified students. Due to high enrollment, students may be required to take an aptitude test and be interviewed for admission to this program

960P AUTOMOTIVE TECHNOLOGY 2

(C) Grades: 11-12 15 cr., 36 wks

Prerequisite: Automotive Technology 1 Tech Prep Option – NATEF/ASE Certified

Students in the second year ASE/NAFTE Certified course will receive instruction and perform live diagnostics and services in the following areas: safety in the shop environment, engine performance, electrical systems, heating, ventilation and air conditioning, basic engine repair and the principles of transmissions/axles, and drivelines. Diagnosis and the safe repair of vehicles are stressed in the second year course. Students in this advanced course have the opportunity to participate in our "CARS 40 hour Mentorship" with local dealerships. Upon completion of the automotive programs, our students find jobs at dealerships and independent services centers, or choose to continue their education at automotive technical institutes or colleges offering advanced training. Local automotive businesses take part in the development of our awarding winning program through active participation on our Automotive Advisory Committee.

961P POWER SPORT ENGINE REPAIR

(C) Grades: 11-12 15 cr., 36 wks

This course teaches the theory and repair of two and four-cycle engines, and engines found in motorcycle, tractors, lawn equipment, jet skis, outboards, snowmobiles, and ATVs. Students learn diagnostic testing and rebuilding, drive train maintenance and repair, fabricating, and gas and electric welding. Vehicle maintenance is also included in this course.

BUILDING TECHNOLOGIES

906P CONSTRUCTION TECHNOLOGY 1

(C) Grades: 10-12 15 cr., 36 wks

Job opportunities for skilled construction employees continue to rise. Students will gain exposure and practical skills necessary for all aspects of construction services including residential

carpentry, masonry, roofing, painting and siding. Basic operation of residential electrical and plumbing systems will be explored. Hands on projects in our state-of-the-art shop will include building sheds, constructing block and brick walls, and structuring house frames. Students learn to safely use tools and equipment including power saws, drills, routers, transits, and surveying equipment. Field trips to actual construction sites give students the opportunity to see real work in the construction setting. Students will also learn the business and workplace skills unique to the construction industry.

907P CONSTRUCTION TECHNOLOGY 2 - 20 CREDITS

(C) Grades: 11-12 15 cr., 36 wks

Prerequisite: Construction Technology 1 Articulation Agreement

Second year students will do advanced study in the area of carpentry, masonry, blue print reading, site planning, cost estimating, and business management. Basic plumbing and electrical wiring will be introduced in this program. Students will also have the opportunity to complete a specialized study in a particular building trade area. Field trips to construction sites are planned and workplace readiness skills and career planning will be an important aspect of this course.

908P ELECTRICAL/ ENERGY TRADE

(C) Grades: 11-12 15 cr., 36 wks

NCCER Certification Apprenticeship

This course will provide students with knowledge of the latest skills in the electrical field including solar and wind energy systems, home automation, telecommunications, fiber optics and audio visual systems. Students will also receive a solid foundation of basic electrical theory, residential circuitry, wiring, motor controls, blueprint reading, and troubleshooting through hands-on-training. The program will include an introduction to the national electrical code industry standards. The focus of the program is to provide students with experiences that expose them to the variety of careers and skills related to the electrical field, while expanding their employability opportunities in the future. If students choose to become a licensed electrical contract upon graduation, students may be eligible to apply some of their instructional hours toward the Electrical Apprenticeship Program that is required in the State of N.J.

COSMETOLOGY

910P COSMETOLOGY 1

(C) Grades: 10-12 15 cr., 36 wks

The cosmetology field offers opportunities for a variety of employment avenues as well as travel, personal satisfaction, and financial independence. Students will develop skills in hair design, nail and skin care, personal appearance, communication skills and business skills. These skills will be learned through demonstrations on mannequins and by working with fellow students.

911P COSMETOLOGY 2 Color and Cutting 911P

(C) Grades: 11-12 15 cr., 36 wks

Prerequisite: Cosmetology 1

Color, hair design, cutting, computer skills, salon management, customer relations and career orientation will be included in the second year of this course. Student's practical skills are enhanced by working on clients in the salon, which duplicates the services offered in community salons and spas. Preparation for the New Jersey State Cosmetology Licensing Examination begins in this course.

912P COSMETOLOGY COMPLETER

(C) Grade: 12 15 cr., 36 wks

Prerequisite: Cosmetology 2

Prepare for future employment by participating in conferences, seminars, and gaining practical skills by working on clients in a clinical setting. Students may obtain a student permit when reaching 600 hours, allowing them to find employment in a salon or spa. Students will complete the required 1000 hours needed to take the New Jersey State Licensing Examination. Upon receiving a passing score on both the practical and theory sections of the exam, students will receive their New Jersey License in cosmetology.

CULINARY

915P BAKING AND PASTRY

(C) Grades: 10-12 15 cr., 36 wks

The baking and pastry profession represents a large part of the rapidly growing Hospitality/Food Service Industry. Students will have the opportunity to concentrate their interest and talents by preparing various desserts, pastries, and breads. Student will develop a solid knowledge in the areas of baking methods, cake decorating techniques, preparation of gourmet desserts and working with formulas for pastries, cakes and pies. Sanitation and safety, cost control, food marketing and catering will be covered. This program will operate in conjunction with the Culinary Arts program. With the successful completion of Baking & Pastry, students may choose to continue their training at professional culinary schools, colleges or go directly into the work force.

918P BAKING AND PASTRY

(C) Grades: 11-2 15 cr., 36 wks

In the second year of the Baking and Pastry program, students will refine their baking skills to include advanced level gourmet pastries, breads and other confections. Students will work independently to solidify their knowledge and creativity for opportunities in the culinary field. Approximately 85% of the Baking and Pastry students continue their education at a professional culinary school or college. Employment opportunities are excellent for those successfully complete the program.

916P CULINARY ARTS 1

(C) Grades:11-12 15 cr., 36 wks

Culinary Arts offer employment opportunities worldwide. There are numerous avenues of employment available for the enthusiastic, hardworking individual who enjoys food preparation and working with people. Beginning with basics such as knife skills and workspace organization, students learn safety, sanitation, and care of professional equipment and materials. Students will operate an on-site restaurant, Careers Café, where they cook, bake, serve and learn related areas of purchasing, managing and customer service.

(Due to high enrollment, students may be required to take an aptitude test and be interviewed for admission to this program.)

917P CULINARY ARTS 2

(C) Grade: 12 15 cr., 36 wks

Prerequisite: Culinary Arts 1

In the second year of the Culinary Arts program, students will refine their cooking skills in menu

design, restaurant management, entrepreneurship, dining room management, and buffet catering. Banquet production and catering are an instrumental part of this program as students operate Careers Café, our on-site restaurant. Approximately 85% of the culinary students elect to continue their education at a professional culinary school or college. Employment opportunities are excellent for those successfully completing the program.

EDUCATION

920P EARLY CHILDHOOD EDUCATION I

(B) Grades: 11-12 15 cr., 36 wks

The high demand for early childhood professionals has increased due to the growing number of childcare facilities and the need for quality care. This course focuses on the development of young children and the exploration of careers in early childhood. In addition to earning seminar hours towards a national credential, students will work daily with preschool children in our on-site learning center, Kinder Magic. Students are encouraged to continue their training through the Child Development Associate (CDA) program, which can be taken the subsequent year.

921P EARLY CHILDHOOD EDUCATION II

(B) Grade: 12 and post-graduates 15 cr., 36 wks

Prerequisite: Early Childhood Education CDA CREDENTIAL

The Child Development Associate (CDA) is a national credential in Early Childhood Education and is recognized in early childhood learning centers throughout the nation. Students work toward this credential and will complete two of the major requirements: 120 seminar hours and the CDA professional resource file.

922P TEACHER ACADEMY

(B) Grade: 12 only 15 cr., 36 wks

Prerequisite: College Prep track, 3.0 GPA and 2 references.

Based on the NJ Department of Labor statistics, five of New Jersey's top fifteen high skilled, high demand occupations are in the field of teaching. This course is a college preparatory program for seniors interested in pursuing a career in teaching. Internships with cooperating elementary, middle, and high schools will be an integral focus of this program. Students will rotate to several different schools three days per week and will observe and assist seasoned teaching staff and experience a variety of grade level disciplines. Students are required to provide their own transportation to school and to the internship facilities.

College Credit RVCC

925P GREEN TECHNOLOGY

(B) Grades: 11-12 15 cr., 36 wks

BPI (Building Analyst Certification) Level 1

This course is for those students interested in conservation, preservation & ecology, with an emphasis in global energy reduction. In this renewable energy lab, students will work toward their auditing certification in green energy by conducting energy audits of residential homes. Students will follow the new Green Schools statewide initiative aimed to make schools more energy efficient. Students will learn the use of industry tools such as temperature guns, foot candle meters, manometers, blower doors and thermographers. This course will further explore solar, wind, and hydrogen energy sources and focus on green energy careers.

930P LAW ENFORCEMENT/ HOMELAND SECURITY

(B) Grades: 11-12 15 cr., 36 wks

Articulation Agreement 911 Dispatch Certification

In this program students receive a broad-based educational experience in all five criminal justice specialties: legal services, law enforcement services, security and protective services, and correction services. In addition to classroom study, students will job shadow professionals in representative occupations and get a first-hand sense of what each job entails. Other career options include special agent, federal marshal, detective, dispatcher, police officer, park ranger, security, private investigator and correctional trainer.

931P CRIMINAL AND CRIME SCENE INVESTIGATION

(B) Grades: 11-12 15 cr., 36 wks

Articulation Agreement

The Criminal Investigation and Forensic Science program will examine the entire process of a criminal investigation from preliminary investigation to arrest and trial. The class will analyze the fundamentals of criminal investigation including investigation responsibilities, identification of physical evidence, marking, packaging and tagging of evidence, preserving evidence; and courtroom procedures, interviewing, and interrogation.

MEDICAL SCIENCE

940P HEALTH SCIENCE 1

(B) Grades: 10-12 15 cr., 36 wks

Health Care is the fastest growing field in the country and the need for qualified health care professionals is becoming critical. This course is ideal for students who would like to know more about health care, especially those who enjoy working with and helping others. The curriculum covers anatomy & physiology, medical terminology, dynamics of health care, emergency care, and clinical care. Coordinated efforts with local hospitals and other health care facilities allow the students to experience the industry through volunteerism, job shadowing, and mentorship.

College Credits: Up to 12 college credits from the University of Medicine and Dentistry earned upon passing of UMDNJ exams.

942P HEALTH SCIENCE II - ACE PERSONAL TRAINER

(B) Grades: 11-12 15 cr., 36 wks

The American Council on Exercise (ACE) is arguably the most significant force in the field of physical fitness, with more than 40,000 certified fitness professionals in over 100 countries. The ACE Personal Trainer Certification is designed for future fitness trainers who will provide any form of one-on-one or group fitness instruction. Students who enroll in this course will demonstrate their knowledge of anatomy, exercise science, nutrition, fitness assessment, exercise programming, and instructional techniques. Students will also have the benefit of ACE publications, study materials, and exam review courses as they prepare to take the certification exam in the late spring.

College Credits: Up to 9 college credits from the University of Medicine and Dentistry earned upon passing of UMDNJ exams

944p NURSING I/ANATOMY AND PHYSIOLOGY

(B) Raritan Valley Community College (3 credits) 15 cr., 36 wks

Prerequisite: Requires a guidance counselor recommendation and a minimum GPA 2.50.

This Anatomy and Physiology for class is for the student who is serious about pursuing a career

in the medical field and wants to further his/her studies. Students will complete two college level classes within this course. Students who successfully complete these classes are eligible to receive credits from Raritan Valley Community College OR the University of Medicine & Dentistry, which are transferable to numerous four-year colleges and universities when taking this and the Nursing II course.

Note: Both anatomy courses are required of all nursing majors in college.

943P NURSING II (B) Bartles Campus 15 cr., 36 wks

Prerequisite: Strongly urged to take Nursing I/Anatomy & Physiology

This Nursing class focuses on the dynamics of healthcare, basic anatomy, physiology, and emergency and clinical care. Students will experience the nursing industry through practical experiences including job shadowing, guest lectures and field trips. Students will complete a maximum of four college level classes within this course and are eligible to receive college credits from Raritan Valley Community College OR the University of Medicine and Dentistry, which are transferable to numerous colleges and universities. Students may be eligible to directly enter into the Nursing program at Raritan Valley Community College immediately after high school graduation, without the typical one to two year waiting period after taking Nursing I and II.

**941P Dental Assistant
(C/B)**

**NEW COURSE
15 cr., 36 WKS**

This program provides preparation for students interested in dental careers such as dental hygienist, lab technicians, x-ray technician, dentist and dental assistant. Students will learn dentistry and lab skills, prevention techniques, operative treatment and specialty areas.

VISUAL COMMUNICATION/ ART AND DESIGN

945P VISUAL COMMUNICATION/ ART AND DESIGN 3-D COMPUTER ANIMATION

(B) Grades: 10-12 15 cr., 36 wks

Articulation Agreement

3D computer Animation allows artists to dream up, build, and move objects and /or characters in three-dimension-al digital space. This course will give you both an introduction to animation and a working environment to create your dreams. Utilizing Autodesk's Maya, learn how to model, rig, animate, render, light and texture. Focus your drawing skills and develop a portfolio for college or employment as you sketch from live models and animals. Develop characters, sets, and storyboards, and get the chance to see other animators' demo reels, while guest artists discuss the opportunities available in the animation field. This is an intensive class suited for the talented artist. Good drawing and creativity are required. A solid understanding of geometry and physics is a plus.

951 3-D COMPUTER ANIMATIONS 2

(B) Grades 11-12 15 cr., 36 wks

Prerequisite: 3D Computer Animation

Spend 2 hours a day polishing your skills and exploring the field you enjoy most. Complete advanced projects reviewing basics learned last year. Major in the area of your choice by completing independent projects as well as assigned exercises. Prepare yourself for the job

market by developing an employment packet and demo reel. Complete a personal logo, business cards, resume and portfolio that include traditional studio media and digital technology, by creating a variety of marketable projects.

946P COMMERCIAL ARTS ADVERTISING I

(B) Grades: 10-12 15 cr., 36 wks

Articulation Agreement

Having a hard time convincing people you can make a living as an artist? Well, look no more! Commercial Arts prepare you for the industry by exploring your career options and giving you the specifics on how and where to get a job. Prepare a portfolio filled with drawing and painting, while gaining amazing computer skills by using Photoshop, QuarkXPress, and Illustrator. Create marketable projects such as magazine advertisements, posters, greeting cards, package designs, and children's book illustrations. Students will also participate in contests, field trips, college preparation, and workshops with guest speakers.

947P ADVANCED COMMERCIAL ARTS/ ADVERTISING II

(B) Grades: 11-12 15 cr., 36 wks

Prerequisite: Commercial Arts I/Advertising or successful completion of an art program at home high school with portfolio. Articulation Agreement

Earn up to 18 college credits for successfully completing this course! Spend 2 hours a day polishing your skills and exploring the field you enjoy most such as job shadowing with art studios, advertising agencies, or marketing companies. Prepare yourself for the job market by developing an employment packet. Complete your personal logo, business cards, resume, and portfolio that include traditional studio media as well as digital technology, by concentrating on creating a variety of successful projects.

948P DIGITAL MULTIMEDIA DESIGN

(B) Grades: 10-12 15 cr., 36 wks

Articulation Agreement

Exciting opportunities await students that wish to enhance their computer skills and knowledge. By using a variety of computer applications, students will create interactive multimedia projects, which include scanning, digital photography, streaming video, editing, audio, and 3-D animation software. Using cutting edge software, this course includes an exposure to video gaming, basic and advanced web design using Dreamweaver, Photoshop, Image-Ready, Illustrator, and web animation using Flash. Each student will complete the program with an extensive portfolio, which may be used to seek employment or for entrance into a technical or four-year college.

949P GRAPHIC ARTS/VISUAL COMMUNICATION

(B) Grades: 10-12 15 cr., 36 wks

Articulation Agreement

Begin a career as a graphic artist in both print media and/or interactive technology. Using industry standard programs such as Quark, In Design, Illustrator, and Photoshop, you'll learn how Graphic Design, Illustration, Photography, Animation, and Digital Design are used to create and produce Posters, CD Covers, Business Cards, Logos, Advertisements, Brochures, Product Labels, Web Pages, and Vinyl Signs/Stickers. Projects are created on high tech equipment, including Macs, digital cameras, vinyl cutters, 4-color laser printers, and offset and bindery equipment. Learn all the basics that are needed for any visual communication career. A major component of this course is compiling a complex portfolio needed for both college and job interviews.

950P GRAPHIC ARTS/VISUAL COMMUNICATIONS II

(B) Grades: 11-12 15 cr., 36 WKS

Prerequisite: Graphic Arts/Visual Communications I

PrintED Certified Articulation Agreements/ College Credits

Increase your knowledge and skills in the graphics industry while completing your national PrintED certification. Students will do advanced projects and add to their portfolio while working on projects that will be used to promote Polytech. Students will have the opportunities for job shadowing, internships, and mentoring.

PRE-VETERINARY SCIENCE

965P PRE-VETERINARY SCIENCE/SMALL ANIMALS

(C) Grades: 10-12 15 cr., 36 wks

Articulation Agreement

Get a leg up on a career in veterinary medicine with this hands-on course working with companion, laboratory, and exotic animals. Introduction to veterinary medicine, communication skills, office procedures, animal identification, clinic safety and procedures, animal care and breeding are all discussed in this course. Students will work toward mastering the competencies of an Animal Care Assistant. Many students continue their education by entering college, while others will decide to enter the work force upon graduation. Students participate in 4H, which helps to develop their potential for premier leadership, personal growth, and career success.

966P PRE-VETERINARY SCIENCE: EQUINE & LARGE ANIMALS

(C) Grades: 10-12 15 cr., 36 wks

Articulation Agreement

Enjoy learning about a career in veterinary medicine with the hands-on course working with horses and other large animals. The introduction to veterinary medicine, communication skills, office procedures, animal identification, clinic safety and procedures, animal care and breeding are all discussed in this course. Students will work towards mastering the competencies of an Animal Care Assistant. Many students continue their education attending two local colleges, (Delaware Valley College and Centenary College), while others will decide to enter the workforce upon graduation. Students participate in 4H, which helps to develop their potential for premier leadership, personal growth, and career success.

WORK BASED LEARNING

970P COOPERATIVE EDUCATION

(N) (V) Grade 12 only 15 cr., 36 wks

Cooperative Education offers seniors the opportunity to develop work skills through a full year employment experience. To be eligible for CE, seniors must have their own transportation to school and to work. They may seek and secure their own employment within the guidelines of the program and they must complete a CE contract that outlines the requirements of the program. Students must work at least 15 hours but not more than 33 hours per work and are required to submit documentation of the hours worked and wages received. Students are also required to participate in a 40 minute per day related class that supports the work experience.

975P SUPERVISED SCHOOL-TO-CAREERS

(C) (B) Grade: 12 only 15 cr., 36 wks

Prerequisite: Requires instructor approval

Hunterdon County Polytech provides students who wish to enroll in an additional year of a

program an opportunity to develop their skills and knowledge through an in-depth field experience. This full year program is job specific. The paid work experience supervised by the program instructor and follows the guidelines established for Cooperative Education. In addition to work experience, a 200-minute related class is required each week. Students must provide their own transportation to school and to work.

TRANSITIONAL SKILLS

97P CAREER EXPLORATION

(C) Grade: 10-12 15 cr., 36 wks

Prerequisite: Requires Case Manager and Polytech Approval

This class is designed to introduce students to the basic skills required in various industries including building maintenance, automotive service, computer/information and more. This program will stress job skills, job readiness and workplace readiness to prepare students for the transition into the workforce or other post secondary opportunities.

975P WORK BASED LEARNING SUPERVISED SCHOOL-TO-CAREERS

(C) (B) Grade: 12 only

15 cr., 36 WKS

Prerequisite: Requires instructor approval

Hunterdon County Polytech provides students who wish to enroll in an additional year of a program with the opportunity to develop their skills and knowledge through a work-based experience. This full year program is job specific. The paid work experience supervised by the program instructor and follows the guidelines established for Cooperative Education. In addition to work experience, a 200-minute related class is required each week. Students must provide their own transportation to school and to work.

970P COOPERATIVE EDUCATION

(N) (V) Grade 12 only

15 cr., 36 WKS

Cooperative Education offers seniors the opportunity to develop work skills through a full year employment experience. To be eligible for CE, seniors must have their own transportation to school and to work. They may seek and secure their own employment within the guidelines of the program and they must complete a CE contract that outlines the requirements of the program. Students must work at least 15 hours, but not more than 33 hours per work, and are required to submit documentation of the hours worked and wages received. Students are also required to participate in a 40 minute per day related class that supports the work experience.

SCHEDULE PLANNING SHEET

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Name: _____ Home Telephone: _____

Email: _____

	COURSE #	COURSE NAME	RECOMMENDED		CREDITS
			YES	NO	
ENGLISH					5
MATH					
SCIENCE					
SOC. STUDIES					
WORLD LANGUAGE					
HEALTH/PHYS. ED.		(Pre-scheduled)			5
LUNCH	990/991	(Pre-scheduled, two mods)			0

* 5, 7.5 or 10 credits possible, depending upon level.

ELECTIVES: **Fine & Performing Arts - Music and Art**
 Practical Arts - AgriScience, Business, Family and Consumer Science, Industrial Tech., and Polytech

1						
2						
3						
4						

ALTERNATE COURSE SELECTION: (Will be scheduled only to resolve conflicts.) Choose at least two half-year courses.

1						
2						
3						

1. **All students must carry a minimum of 35 credits.**
2. More than 40 credits will require a lunch waiver signed by parent or guardian.
3. **Level placements are determined by performance in the current classes. In order to maintain a level, the student should be earning a grade of "C" or better.**
4. **Students who are earning grades of "D" or "F" in current classes need additional course work in the basics and should be scheduled accordingly.**
5. Students desiring honors level placement must have an "A" in current course in content level.
6. All course level placement requests will be reviewed with teachers' recommendations at the end of the 3rd marking period.
7. Rising seniors: Competitive colleges and universities look carefully at your senior course selections!

Total Credits

Please make your selections carefully, as you will not be permitted to make changes once schedules have been developed.