

NEWTON HIGH SCHOOL

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PROGRAM OF STUDIES

"The Home of the Braves"

“The Home of the Braves”

NEWTON HIGH SCHOOL
44 Ryerson Avenue
Newton, NJ 07860

PROGRAM OF STUDIES 2022-2023

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Business Administrator.....Mr. James Sekelsky
Director of Special Services.....Mrs. Jennifer Pasquali
Director of Technology.....Mrs. Mary Decker

Administration – Newton High School

Principal.....Mr. Jeff Waldron
Assistant Principal.....Mr. Ryan Caffrey
Assistant Principal/Athletic Director.....Mr. Ryan Hashway
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Theresa Hough, Guidance Counselor
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Jessica Kucz
Director of Student Services

Rikki Saad, Guidance Counselor
Lisa M. Bechtel, Student Assistance Counselor

Dear Student:

The Program of Studies describes the courses offered at Newton High School. Please read it carefully before selecting your courses for the next school year. It is important to familiarize yourself with the requirements for a Newton High School diploma, the requirements for most colleges and postsecondary schools and careers, as well as the procedures for scheduling.

Each year you and your Guidance Counselor will update your four-year plan with the help of your parents and teachers. Keep your future options open by choosing courses that meet the admission criteria of a wide range of colleges, business and technical institutes, entry-level jobs, and the military services. We encourage you to sample new subjects and interests so that you develop a well-rounded program. Before you choose next year's classes, think about these important questions:

1. What are my primary interests in and out of school?
2. What careers am I considering?
3. What are my post high school plans?
4. What are my strengths and weaknesses as indicated by my grades and test scores?
5. What courses will challenge my abilities?
6. Have I met my elective requirements?
7. What electives will round out my program, develop my talents and help me explore new fields?

As you work to complete your upcoming high school schedule, with your teachers, parents and counselor, strive to develop a challenging program that will enable you to achieve your educational and career goals.

Continued success,

Jessica Kucz

Jessica Kucz
 Director of Student Services

Lisa Casamassina

Lisa Casamassina
 Guidance Counselor

Rikki Saad

Rikki Saad
 Guidance Counselor

Theresa A. Hough

Theresa A. Hough
 Guidance Counselor

Lisa M. Bechtel

Lisa M. Bechtel
 Student Assistance Counselor

“The Home of Pride”
STUDENT SERVICES PROGRAM

The Student Services Program (Guidance Department) is designed to help you build a strong educational foundation in high school, develop your talents and abilities and plan for the future. At the beginning of your freshman year, you and your counselor will meet to discuss not only your freshman classes, but the goals and requirements that will eventually lead you to graduation. You meet regularly with your counselor who works with you to build a positive relationship based on trust, caring, confidentiality, and mutual respect. With the assistance of your counselor, teachers, and family, you choose courses each year, assess your strengths and challenges, make key educational and career decisions and solve problems that you encounter in high school.

Naviance Family Connection

Naviance is a web based program designed to connect students, parents/guardians, and counselors in the college and career planning process. Students and parents/guardians will be provided with a registration code to access Naviance.

Course Selection Process

Choosing your courses is a vital step in developing your graduation plan. Your schedule should reflect your interests, abilities, educational and career goals, and academic achievement. In February, counselors begin the process of scheduling students for next year's courses. Teacher recommendations will factor into the courses that you take each year. Teachers offer the best insight into your current academic performance, as well as your potential for future courses.

The master schedule of courses is developed after analyzing the best placement for a course for the greatest number of students. Class enrollment is finalized after considering many factors including the availability of teachers and rooms, student interest, and laboratory stations. Although the master schedule team makes every effort to fill course requests, you may be required to choose between courses when a conflict cannot be resolved.

Schedule Changes

When you indicate your course selections during the online scheduling process, your choices reflect firm, well-planned decisions. Final course selection is the result of serious planning with your parents/guardians, teachers, and counselor. You will receive your schedule during the summer months before the academic school year begins. Be aware that the schedule you receive may be different in September due to course changes and balancing sections during the summer. The only schedule changes that are corrected immediately are teacher-recommended level changes, missing classes, or course adjustments due to summer school completion. Once school begins, all students must remain in their scheduled classes for one full week. Following that, there will be a ten day schedule change period where students can drop an elective and add another (if seats are available in that elective). After this ten day period, schedules can only be changed in the case of a class level change recommended by the teacher and approved by the parent. A letter of approval will be required to complete the level change.

Planning for College

The most important criteria for college admission are the strength of your academic program, your grades in academic courses (English, Mathematics, Science, Social Studies, and World Language), as well as your participation in extracurricular and/or community activities. College requirements vary; therefore, it is advisable to prepare for admission to a wide range of colleges. Take a broad and balanced college prep program and consult college websites and guidebooks for specific requirements.

To prepare for selective colleges you must:

1. Complete at least 16 college academic units. Applicants to highly selective colleges often complete 20 or more academic units. A unit represents a full-year course in an academic subject.
2. Develop strong study skills and habits in all subject areas.
3. Participate actively in school and community activities. Become involved in volunteer service organizations.
4. Prepare for college entrance examinations (SAT, ACT) by accessing all tutorial information on appropriate websites (such as <http://connection.naviance.com/newton>, www.actstudent.org and www.collegeboard.org).
5. Build your comprehension, general knowledge, reading speed and vocabulary by electing to read a wide variety of literary materials.

Planning for School-To-Work

The most important criteria for gaining employment after graduation are a successful high school academic record, good recommendations, motivation, workplace skills (communication, decision-making, teamwork, adaptability, and reliability), and strong experience/courses in your career area.

To prepare for work after graduation you must:

1. Complete a strong high school program with 15 or more academic subjects.
2. Take electives in 21st Century Life & Careers and Performing & Visual Arts related to your area of interest.
3. Seek out work experiences through Structured Work Experience (SWE), after school jobs and volunteering.
4. Develop a consistent employment record for your resume and for recommendations from employers.

GRADUATION REQUIREMENTS

A total of **130 credits must be earned** for high school graduation. State and local policy dictate that some of these credits are earned in prescribed courses. Summer school is a student's responsibility if they fail a course or lack credits needed for graduation.

Prescribed course requirements are:

4 years of English	20 credits
1 year of World History	5 credits
2 years of United States History	10 credits
3 years of Mathematics including Algebra I, Geometry and an additional upper level math course	15 credits
3 years of Science including Biology, Environmental Science or Chemistry and an additional lab science	15-18 credits
1 year of Visual & Performing Arts	5 credits
1 year of 21 st Century Life & Careers	5 credits
1 semester of Financial Literacy including Financial Literacy, Intro to Business, Economics, Consumer Math, Independent Living, AP Government	2.5 credits
1 year of World Language	5 credits
4 years of Physical Education/Health/Driver Ed. Theory	<u>16-20 credits</u>
	98.5-103 credits

The remaining course credits should be chosen to give you a well-rounded program that will help you to become a better person and citizen, and prepare you for further education or immediate employment.

College Prep (CP) and Advanced College Prep (ACP) Courses

College Prep courses are designed for those students who benefit from a teaching pace that includes extra instruction and more reinforcement. Advanced College Prep courses are designed for those students who grasp concepts quickly, are self-motivated and require less reinforcement.

Honors (H) and Advanced Placement (AP) Courses

Honors and/or Advanced Placement courses are designed to provide you with an academic challenge beyond what is provided in other college preparatory courses and the opportunity to complete college-level courses in high school. Curriculum is designed to move students to think and write more critically and at a more rigorous pace. In order to enroll in an Honors and/or Advanced Placement course you must:

1. Be selected on the basis of academic record, teacher recommendations, standardized test scores, or other placement criteria.
2. Have a high level of interest in the subject and be motivated to work hard.
3. Demonstrate strong reading, analytical, critical thinking, and writing skills.
4. Demonstrate excellent attendance, self-discipline, independent work habits, and maturity to succeed in the course.

Gifted and Talented

Newton High School offers a variety of academic opportunities for students who are exceptional learners. Advanced College Prep, Honors and Advanced Placement level courses are offered in English, Math, Science, Social Studies, World Language, 21st Century Life & Careers and Visual & Performing Arts. Students are also offered high school and college credit in courses through the Concurrent/Dual Enrollment Program. For students with more specialized interests, there are opportunities in our unique

Agricultural offerings, Video Production, Computer Programming, and Photography, for example. Participation in these course offerings is based on teacher recommendation and student grades.

Newton High School also offers a vast selection of clubs and activities for students to explore personal areas of interest and strength. Participation in clubs is voluntary and all students may join. Students who excel in math and science may be encouraged to join the Math League or Science League. Participation is based on teacher recommendation and student grades.

SEQUENCE OF COURSES

Grade 9 Required Courses:

1. **English**
2. **History**
3. **Science**
4. **Mathematics**
5. **Physical Education/Health 9**

Recommended ~ Visual and Performing Art or 21st Century Life & Careers

Recommended ~ Financial Literacy

Recommended ~ World Language

Elective Courses: Complete your schedule from any elective courses open to Grade 9 as listed on the Student Course Selection Sheet.

Grade 10 Required Courses:

1. **English**
2. **History**
3. **Science**
4. **Mathematics**
5. **Physical Education/ Driver Ed. Theory**

Recommended ~ Visual and Performing Art or 21st Century Life & Careers

Recommended ~ Financial Literacy if not taken previously

Recommended ~ World Language if not taken previously

Elective Courses: Complete your schedule from any elective courses open to Grade 10 as listed on the Student Course Selection Sheet. Remember, you must check the prerequisites, if any, as listed in this curriculum handbook.

Grade 11 Required Courses:

1. **English**
2. **History**
3. **Science**
4. **Mathematics**
5. **Physical Education/Health 11**

Recommended ~ Visual and Performing Art or 21st Century Life & Careers

Recommended ~ Financial Literacy if not taken previously

Recommended ~ World Language if not taken previously

Elective Courses: Complete your schedule from any elective courses open to Grade 11 as listed on the Student Course Selection Sheet. Remember, you must check the prerequisites, if any, as listed in this curriculum handbook.

Grade 12 Required Courses:

1. **English**
2. **Physical Education/Health 12**
3. **Visual and Performing Art or 21st Century Life & Careers if not taken previously**
4. **Financial Literacy if not taken previously**
5. **World Language if not taken previously**

Elective Courses: Complete your schedule from any elective courses open to Grade 12 as listed on the Student Course Selection Sheet. Remember, you must check the prerequisites, if any, as listed in this curriculum handbook.



Concurrent Enrollment Program

The Concurrent Enrollment Program (CEP) is a partnership between Newton High School, Sussex County Community College, Syracuse University and Centenary University to provide students the chance to enroll in college courses as part of their regular school day. CEP courses are equivalent to those offered at the colleges, and the administration and faculty at the colleges monitor the courses to ensure that instruction, curriculum, and grading standards in CEP courses are identical to those sections taught at the colleges.

What courses are offered?

NHS Course Name	Credits	Semester	SCCC Course Equivalent	Required Test
Accounting I	3	Spring	Accounting Principles I Financial	No test
Floral Design	4	Spring	Intro to Agricultural Sciences	No test
Nursery Landscape Design	4	Spring	Intro to Agricultural Sciences	No test
Wildlife Management Principles & Practices	4	Spring	Intro to Agricultural Sciences and/or Intro to Soil Science	No test
Introduction to Business	3	Spring	Introduction to Business	No test
Marketing II	3	Spring	Principles of Marketing Prerequisite: Introduction to Business	No test
History of Western Civilizations I	3	Fall	History of Western Civilizations I	No test
History of Western Civilizations II	3	Spring	History of Western Civilizations II	No test
Forestry and Environmental Systems	4	Spring	Intro to Soil Science	No test
Honors Precalculus I	3	Fall	Precalculus I	Accuplacer CLM
Honors Precalculus II	3	Spring	Precalculus II	No test
AP Calculus	4	Spring	Calculus I	Accuplacer CLM
Honors Choir	1	Spring	Chorus I	No test
French 4	3	Spring	French 201	No test
Honors Chemistry I	4	Spring	Introductory Chemistry	Accuplacer CLM
AP Chemistry II Part I	4	Fall	College Chemistry I	Accuplacer CLM
AP Chemistry II Part II	4	Spring	College Chemistry II	No test
NHS Course Name	Credits	Semester	Syracuse University Course Equivalent	Required Test
Honor Spanish 201	4	Fall	Spanish 201	No test
NHS Course Name	Credits	Semester	Centenary University Course Equivalent	Required Test
Social Media Marketing	4	Fall	Social Media Marketing	No test

* Fall courses must be registered for by September 19, 2022.

** Spring courses must be registered for by February 3, 2023.

***SCCC Tuition Rates: 1 credit course: \$75, 3 credit course: \$225, 4 credit course: \$300

Syracuse University Tuition Rate: \$460

Centenary University Tuition Rate: \$300

*Above information is as of 8/2021

Who is eligible for Concurrent Enrollment courses?

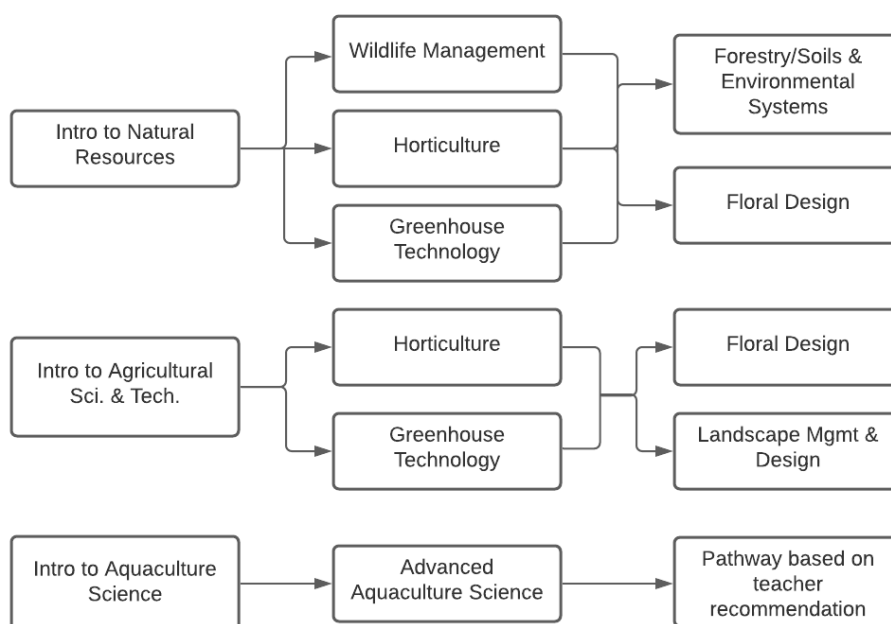
CEP is available to all high school students who have an overall B average or higher. Courses noted above require math proficiency through SAT, ACT or College Placement Test (Accuplacer) with the following scores: SAT - 500, ACT - 23, Accuplacer (College Level Math) - Precalculus and Honors Chemistry I - 50, Calculus and AP Chemistry II - 69.

21st Century Life & Careers

Agriculture Education

The Agriscience Education courses offer students the opportunities to explore many Career and Technical Education (CTE) experiences. The students who complete the four-year program will gain basic and technical background information and working experiences, and may avail themselves of the opportunities at post secondary level education and current entry-level career positions. The introduction courses expose students to the many opportunities available to them as members of the FFA*. Skills outlined in the New Jersey Student Learning Standards (NJSLS) are addressed in all courses. Completion of diploma and program of study within the agriculture education program provides articulation opportunities with Cobleskill University in Cobleskill, New York. Two courses, Intro. to Agriscience and Intro. to Soil Science, are offered concurrently with Sussex County Community College.

**FFA is the career and technical student organization for students enrolled in agriculture education programs. It provides premiere leadership, career development and personal growth.*



INTRODUCTION TO NATURAL RESOURCES

This course introduces the broad scope of occupations divided into the many areas relating to our country's natural resources. Touching briefly on each of the areas of conservation, forestry, fish and game management, community planning, plant study, water and air pollution, and outdoor recreation, a student is able to determine if they have the attributes necessary for further study in this field.

Grades 9, 10, 11, 12

Credits: 5

INTRODUCTION TO AGRICULTURAL SCIENCE & TECHNOLOGY

In Introduction to Agricultural Science & Technology, students will be exposed to information about the modern agricultural industry, including agricultural occupations, FFA, greenhouse plant production and maintenance, and basic floral design techniques and practices. This introductory course prepares students for study in this area at a higher level, either in floral design or landscape management.

Grades 9, 10, 11, 12

Credits: 5

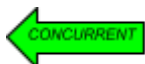
INTRODUCTION TO AQUACULTURE SCIENCE

This course is designed to introduce Agriculture Education students to the broad scope of the aquaculture industry. Special attention is given to the complexities of both closed and open aquaculture systems and emerging aquaponic/hydroponic technologies. Students will enjoy hands-on experiences in fish grow-out utilizing our 3000-gallon aquaculture laboratory.

Grades 9, 10, 11, 12

Credits: 5

GREENHOUSE TECHNOLOGY



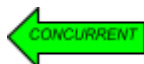
Through scientific and practical techniques, the student will gain the cognitive knowledge as well as the hands-on skills that relate to the nursery and turf management occupational cluster. The course consists of theoretical work in the classroom with greater emphasis on laboratory experiences in the field and greenhouse. Production of nursery plants and turf management solutions based on industry standards will provide the core of the curriculum.

Grades 10, 11, 12

Credits: 5

Prerequisites: Introduction to Agriscience and Technology and FFA membership

WILDLIFE MANAGEMENT PRINCIPLES & PRACTICES



The scope of wildlife management occupations is the thrust of this course. The student will develop a cognitive understanding of the relationships that exist between nature and people, and how we are becoming more responsible for the management of all wildlife. Techniques of managing game animals, nongame species, cold-water fishery science, aquaculture and watershed management are some of the topics covered. This course is outdoor lab-based and students are required to take an active role in FFA activities under PL:740.

Grades 10, 11, 12

Credits: 10 (2 periods)

Prerequisites: Introduction to Natural Resources and FFA membership

HORTICULTURE

This single period, 2nd year level Agriscience course takes students from the Introduction to Agricultural Technology or the Introduction to Natural Resources classes or for Sophomores who missed an introduction course. Horticulture reinforces the skills already learned and adding additional play science studied with advanced floral design techniques, with an emphasis on hands-on work projects and emerging aquaponic/hydroponic technologies. This course is a prerequisite for Floral Design.

Grades 10, 11, 12

ADVANCED AQUACULTURE SCIENCE

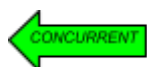
Students will have cognitive knowledge of both closed and open aquaculture systems and emerging aquaponic/hydroponic technologies. Students will enjoy hands-on experiences in fish grow-out utilizing our 3,000 gallon aquaculture laboratory. This course is a continuation of Intro to Aquaculture Science (offered biennially) and involves a more in-depth study of related topics.

Grades 10, 11, 12

Credits: 5

Prerequisite: Introduction to Aquaculture

FLORAL DESIGN



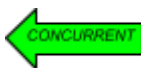
In Floral Design, students are actively involved in an actual flower shop in the classroom. Students will design wedding bouquets, bridal flowers, holiday arrangements and other floral creations and work with customers. Students will take customers' ideas and use their own knowledge of ornamental plants and flowers to make those ideas a reality. This prepares students for working in floral arranging as well as opening up other career opportunities that focus on color and design.

Grades 11, 12

Credits: 10 (2 periods)

Prerequisites: Introduction to Agricultural Science & Technology, FFA Membership and Floral Design I

FORESTRY/SOILS & ENVIRONMENTAL SYSTEMS



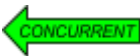
This course deals with the skills needed to pursue careers in the fields of forestry, outdoor recreation, Agribusiness management and Agronomy. It will prepare students to continue post-secondary education in related fields or to acquire entry-level positions in the industry. Topics covered include forest management, chainsaw safety and operation, soil science management, agribusiness, agronomy science and related computer technology. This course is a lab-based, hands-on class with many field trips to regional sites. Students are required to take an active role in FFA activities under PL: 740.

Grades 11, 12

Credits: 10 (2 periods)

Prerequisites: Wildlife Management Principles & Practices and FFA membership

LANDSCAPE MANAGEMENT AND DESIGN



Through scientific and practical techniques, the student will gain the cognitive knowledge as well as the hands-on skills that relate to the landscape occupational cluster. The course consists of theoretical work in the classroom with greater emphasis on hands-on laboratory experiences in the field. Landscape drawing and design, along with agribusiness skills will provide the backbone of this curriculum.

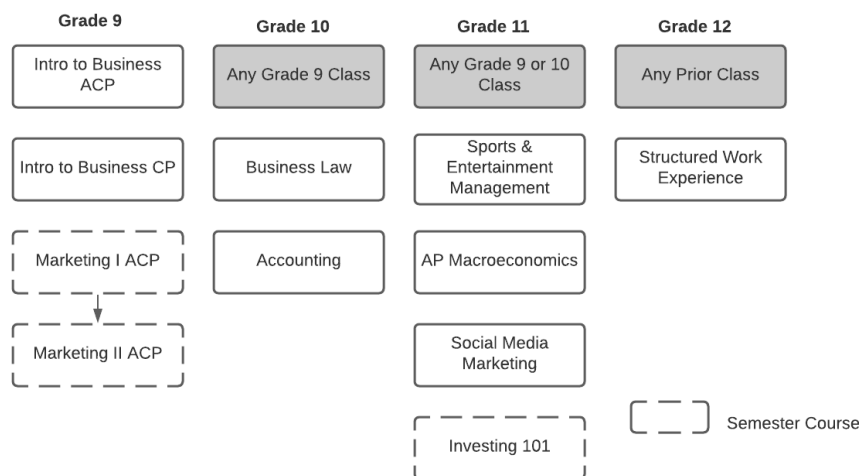
Grades 11, 12

Credits: 10 (2 periods)

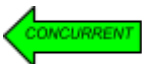
Prerequisites: Greenhouse Technology or Horticulture and FFA Membership

Business

Welcome to the Newton High School Business Department. We are a growing department offering a number of classes that not only introduce business concepts, but will also help students to formulate college majors and potential career paths. Our Introduction to Business class satisfies the NJ Financial Literacy requirement. Our teachers bring a unique set of real-world experiences. We also have a successful Future Business Leaders of America (FBLA) chapter that is expanding and participating in state and national level events and competitions.



INTRODUCTION TO BUSINESS ACP



This course introduces students to the basic concepts of business, including marketing, finance, production, human resources, and technology – all potential college majors and big picture career paths. Students will engage in the importance of understanding economics, organizing a business, and developing leadership skills. We don't just focus on large corporations - we also learn how to create a business plan while exploring entrepreneurship and small business ownership. This course satisfies the Financial Literacy requirement and can also be taken for college credit as a concurrent class through SCCC.

Grades 9, 10, 11, 12

Credits: 5

INTRODUCTION TO BUSINESS CP

This course follows the curriculum outlined above and is designed for students whose academic courses are at the College Prep (CP) level.

Grades 9, 10, 11, 12

Credits: 5

ACCOUNTING



This course introduces students to the basic concepts of general accounting principles. Focus will be placed on the accounting equation, debit and credit accounts, and payroll. Emphasis will then be placed on transferring information to the general journal and ledger, as well as to multiple financial statements. Students will also be made aware of accounting career possibilities.

Grades 10, 11, 12

Credits: 5

Prerequisites: Introduction to Business or Departmental Approval

BUSINESS LAW

This course introduces students to various areas of business, criminal, and civil law. Many of the topics covered are very important to the students right now or will be within the next year or two. These include the legal issues involving buying a car, using a credit card, employment agreements, sales contracts, and for those going away to college – renting an apartment or house. Some of the topics will become important in early adulthood, such as starting your own business, copyright and patent laws, personal property rights and obligations, insurance and estate planning, and what to consider when signing certain contracts. Finally, some of the topics are just really interesting, including criminal law, cyberlaw, and e-commerce rules and regulations. The format of the class includes analyzing written cases, viewing and discussing videos of real courtroom cases, and debating real-life scenarios.

Grades 10, 11, 12

Credits: 5

AP MACROECONOMICS

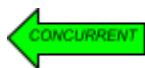
The purpose of the AP course in Macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. What is the effect of raising or lowering taxes? What causes changes in employment levels? How is GDP determined? When should two countries trade with each other? How are prices determined in different situations? These questions and more are answered through exploring our own government's fiscal and monetary policies, analyzing measures of economic performance, reviewing stabilization policies, predicting economic growth, and correlating the influence of inflation and international economics. Various economic schools of thought are introduced as students consider solutions to economic problems.

Grades 11, 12

Credits: 5

Prerequisites: Grades of A or B in Adv. CP level courses in Math and Science, and teacher recommendation

SOCIAL MEDIA MARKETING



This course provides an overview of social media and its application to the business setting. The course will include a hands-on view of current social media marketing tools and incorporate current topics from this dynamic field. The main focus will be on leveraging social media from a marketing perspective, including listening to customers and building brands on the social web.

Grades 11, 12

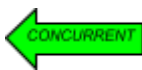
Credits: 5

MARKETING I

This class begins the thought processes and strategies behind developing a marketing plan and becoming a marketing professional. Students learn how to begin with a product concept, develop the right targets and segments, influence consumers' decisions, and gain competitive and strategic advantages over other companies. Creating a brand, developing a marketing mix, and establishing a global vision for a product or company are all part of this course. Students get to experience real-life marketing ideas, techniques, and strategies through in-class research, individual and group assignments, videos, and presentations.

Grades 9, 10, 11, 12

Credits: 2.5 (Semester)



MARKETING II

A continuation of Marketing I, we now go into the next phase of marketing which includes creating ads and promotional campaigns, incorporating public relations, developing marketing channels, and utilizing various methods of social media. As in Marketing I, class activities include research, individual and group assignments, videos, and presentations.

Grades 9, 10, 11, 12

Credits: 2.5 (Semester)

Prerequisite: Marketing I

Prerequisite for SCCC concurrent enrollment: Introduction to Business ACP

SPORTS AND ENTERTAINMENT MANAGEMENT

This course discusses the basics of managing a sports or entertainment business. Students are asked on multiple occasions to choose a sports or entertainment figure, venue, or event of their liking and work through the decision making processes for management based resolutions. Students are also asked to work through an event planning process where they create, from start to finish, an event of their choice. This project helps students understand the importance of preparation, creativity, client relations, budgeting, and hosting. Sports & Entertainment Management majors are becoming more prominent at colleges throughout the country. Additionally, the careers in this field are vast and increasing yearly. Whether you want to be LeBron James's next agent, the Giants' next GM, Madison Square Garden's next event coordinator, or Sony Music's next Social Media Representative, this course will help you discover what jobs are available and help you understand what they entail.

Grades 11, 12

Credits: 5

Prerequisites: Grade of C+ or better in Introduction to Business, and teacher recommendation

INVESTING 101



Investing 101 offers students with diverse educational goals an alternative to the conventional finance class. Students will get a basic introduction to stocks as well as learn practical applications of how to invest. This course aims to help students build the ability and knowledge to make their own investment decisions in the stock market. The focus will be on understanding key essential investing concepts, basic introduction to stocks, Investing for Retirement, Diversification and Risk Versus Return. Emphasis will be placed on making good financial decisions by using critical thinking skills and applied content knowledge. Students will also be made aware of possible career choices available. By the end of the course, students will have a solid foundation of knowledge and know how to start investing on their own.

Grades 11, 12

Credits: 2.5

STRUCTURED WORK EXPERIENCE

This course is designed for those seniors who are planning to enter the workplace after high school. The SWE program will include such topics as planning goals, developing resumes, job applications, interviewing, problem solving, workplace literacy, communications, and managing money. Students may be released early to attend work at school-approved job sites. If a student does not have a job by the first day of class, that student will be dropped from the program.

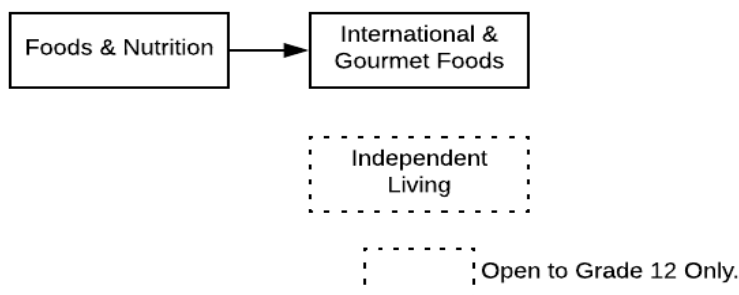
Grade 12

Credits: 10

Prerequisites: Successful completion of an advanced level business or computer technology course. By the first day of school, students must have a job for a minimum of 10 hours per week.

Family and Consumer Science

Courses in this area have been developed to provide students with lifelong skills that will prepare them to better fulfill their future roles as contributing members to an ever-changing society. Participation in the following areas of concentration will provide the student with the knowledge to lead a healthy lifestyle and expose them to career choices and skills for both entry-level jobs and continuing education.



FOODS AND NUTRITION

This introductory lab-based course focuses on the principles of food preparation and the importance of good nutrition. Students will become familiar with food preparation skills and techniques, which will enable them to prepare nutritious meals. Careers in the Food Service/Hospitality Industry are also explored.

Grades 9, 10, 11, 12

Credits: 5

INTERNATIONAL & GOURMET FOODS

The student will explore the cuisines of foreign lands, experience our own “regional” favorites and master the advanced food preparation techniques of cake decorating, garnishing, and pastries. Career choices in the Food Service/Hospitality industry are explored further with guest speakers representing schools such as Johnson and Wales and the Culinary Institute of America.

Grades 10, 11, 12

Credits: 5

Prerequisites: Foods and Nutrition and teacher recommendation

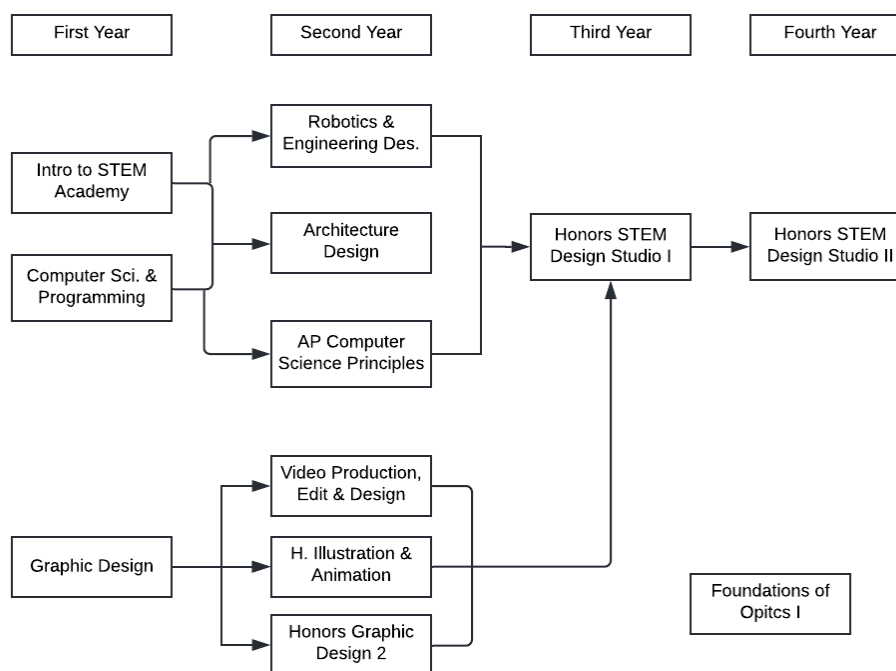
INDEPENDENT LIVING

This comprehensive course addresses the needs of the students as they prepare for life on their own. Through hands-on activities, the student will develop a range of skills related to career exploration, management, financial literacy, healthy living, foods and nutrition, and clothing and housing, enabling them to meet the daily challenges of 21st century life. This course satisfies the graduation requirement for financial literacy.

Grade 12

Credits: 5

Technology



INTRODUCTION TO STEM ACADEMY

Welcome to the first step in becoming a Technology Student Association (TSA) member. This course will introduce students to Science, Technology, Engineering, and Math, as well as demonstrate how STEM is a beneficial path to an increasingly competitive global marketplace. Students will be exposed to a variety of professional software that includes Photoshop, Solidworks, AutoCad, and others. This program will give students the skills necessary to be college ready and prepared for a rewarding career in one of several top industries. Students will have an opportunity to experience a studio environment while completing hands-on projects and exploring a variety of different STEM careers in the following fields of study. In addition, students will have the opportunity to compete at the state level through the Technology Student Association (TSA).

- Architecture
- Robotics / Engineering
- Computer Science
- Programming/Coding
- Electronics Manufacturing and Repair
- General shop tool use

Grades 9, 10, 11, 12

Credits: 5

COMPUTER SCIENCE & PRINCIPLES

This course introduces the student to the fundamentals of computer science using an emphasis on programming methodology and problem solving. Topics may include but are not limited to introductory concepts of computer systems, algorithm design, programming languages, software engineering, and data abstraction with related applications. At the beginning of the course, different programming languages are discussed and used to demonstrate the concepts. Students then have a choice to work on their Google IT Support Certification or delve deeper into the learning and understanding of coding.

Grades 9, 10, 11, 12

Credits: 5

GRAPHIC DESIGN I

This course serves as an introduction to visual communication. Students will expand their knowledge through the use of the Adobe Creative Cloud, specifically Photoshop, Illustrator, and InDesign. Students enrolled in this course will develop a comprehensive portfolio, which may be used to enhance the student's postsecondary studies and career opportunities. This is an introductory course which can lead to either Digital Photography or Video Production, Edit & Design.

Grades 9, 10, 11, 12

Credits: 5

HONORS GRAPHIC DESIGN II

This course will build on Graphic Design I by helping students apply what they have already learned about principles and elements of graphic design as well as industry-leading software on a more advanced level. Students will learn how to market and present themselves to prospective clients and or art directors. It is important for graphic designers to be able to use their classroom learning in “real-world” contexts. The design process will be stressed under the same constraints of a work environment. Understanding of form, balance, structure, typography, image, space and color will be further developed through lectures, readings, assignments, projects, and class discussion. All of these elements will be integrated and practiced in the execution of problem-solving projects related to the design process.

Grades 10, 11, 12

Credits: 5

Prerequisites: Graphic Design I and teacher recommendation

HONORS ILLUSTRATION & ANIMATION

Do you find yourself doodling and creating your own characters? If you want to take your imagination to the next level, then this is the course for you! Spend the year developing characters, storyboards, and mastering animation programs. You will learn the basic techniques of illustration, the technology to create short animations, the science of animation, and the history of the moving image in the arts and entertainment industry.

Grades 11, 12

Credits: 5

Prerequisites: Graphic Design I AND/OR Introduction to Art and teacher recommendation

ARCHITECTURAL DESIGN

This course is designed as an intermediate course in architectural design. Students enrolled in this course will build upon previous experience gained in Computer Aided Drafting. Topics covered include, but are not limited to, residential design, building code and handicapped accessibility.

Grades 10, 11, 12

Credits: 5

Prerequisites: Introduction to STEM Academy and teacher recommendation

ROBOTICS & ENGINEERING DESIGN

Students will be fully immersed in the 3D Design/Build World of Robotics and Engineering. Beyond studying the terminology and components of engineering, students will use the industry standard software SolidWorks to virtually build and test their projects. Then, they will use 3D printers to rapidly prototype their designs. In addition, students will have the opportunity to compete at the state level through the Technology Student Association (TSA) where students will build robots with VEX parts and program with RobotC.

Grades 10, 11, 12

Credits: 5

Prerequisites: Introduction to STEM Academy and teacher recommendation

HONORS STEM DESIGN STUDIO I

In this course, students will study in depth various advanced aspects of mechanical and architectural engineering. Using mathematics, science, English, history, and technology, students will create comprehensive design projects and presentations. Emphasis will be placed on various fields of engineering with consideration of student developed portfolios. Portfolio materials developed relative to their design solution will be examined in a technical, social, and historical context.

Grades 11, 12

Credits: 5

Prerequisites: STEM Robotics and Engineering Design or other second level STEM course and teacher recommendation

HONORS STEM STUDIO DESIGN STUDIO II

This exploration course builds on Advanced STEM Design I.

Grades 11, 12

Credits: 5

Prerequisites: Advanced STEM Design I and teacher recommendation

AP COMPUTER SCIENCE PRINCIPLES

Students will be introduced to the foundational concepts of computer science and be challenged to explore how computing and technology can impact the world. This course explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in. You will be introduced to a number of innovations in computing and digital media that have come to form the backbone of nearly all of our online and offline interactions. As this course guides you through the art and science of digital technology and helps you develop robust, computational thinking skills, you will become a master of innovation and be fully prepared to thrive in our digital world.

Grades 10, 11, 12

Credits: 5

Prerequisites: Computer Science & Programming or Introduction to STEM Academy and teacher recommendation

VIDEO PRODUCTION, EDIT & DESIGN

Students will study various aspects of broadcasting. Students will work individually and in cooperative learning environments to generate presentations integrating aspects of film, video, and computer animation. Through teaming and artistic collaboration, students will become part of the evaluation process. Portfolio materials developed will be examined in a technical, social, and historical context.

Grades 10, 11, 12

Credits: 5

Prerequisites: Graphic Design and teacher recommendation

FUNDAMENTALS OF OPTICS I

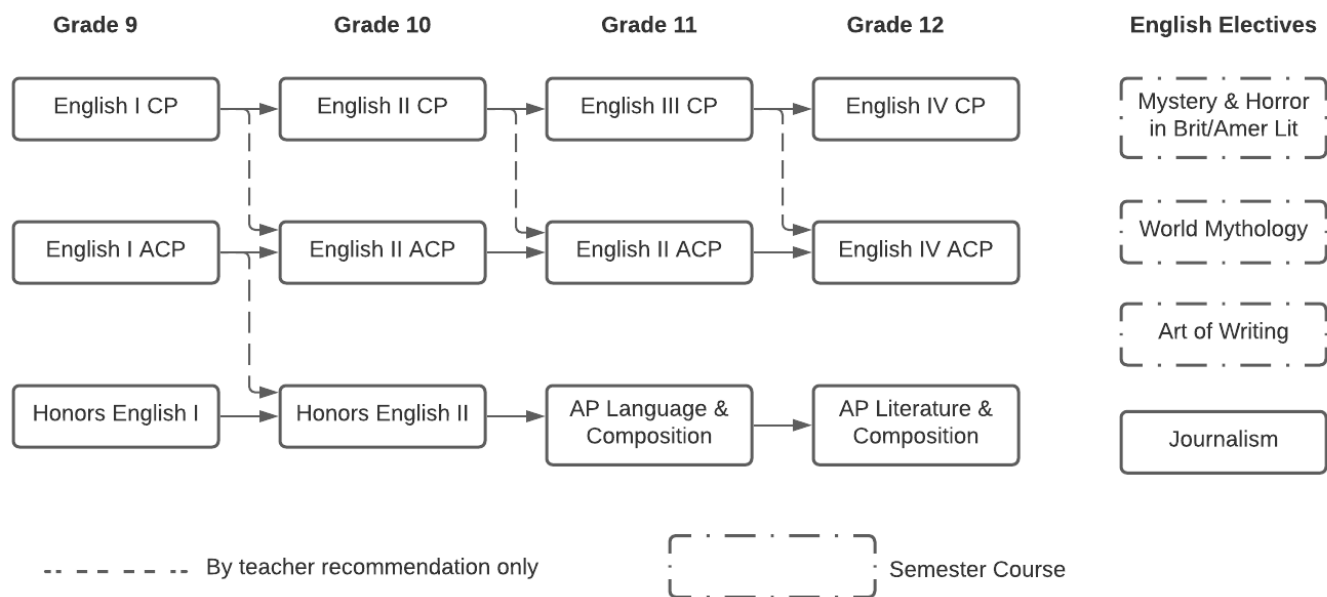
This course is an introduction to the optics and photonics industry with a focus on utilizing optical technology in devices and scientific research. Exploration into the history of optics provides context for how the study of light has reached the forefront of technological and scientific discovery. Students study terminology and the physical concepts necessary to understand how light is created, manipulated, and measured with the goal of constructing a foundation from which to delve further into the optics industry. Students will also conduct experiments using light. This introductory course is a required course for an Applied Science Associates Degree at Sussex County Community College.

Grades 11, 12

Credits: 2.5 (Semester)

ENGLISH

The English Department provides a diversified program that prepares students for post high school education or individual careers. Reading, writing, vocabulary, research skills, and grammar are stressed. The student should be cognizant of his/her individual educational goals and needs when selecting the program for English studies. Skills outlined in the New Jersey Student Learning Standards (NJSLS) are addressed in all courses.



ENGLISH I CP

The ninth grade college preparatory course provides the study of grammar, literature-based vocabulary, sentence structure, and paragraph development. In the area of composition, students move from paragraph development to creative and expository writing. Research skills are developed. In addition, the students study the major genres of world literature.

Grade 9**Credits: 5**

Prerequisite: Eighth grade English teacher recommendation

ENGLISH I ADVANCED CP

English I Advanced College Prep builds upon the ninth grade college preparatory course and is a more intensive course requiring more studying and more homework. Additional compositions are required, and students will read and study the more difficult world novels that are part of the college preparatory curriculum. The instructor will employ a faster pace that will allow for this enhancement.

Grade 9**Credits: 5**

Prerequisite: Eighth grade English teacher recommendation

HONORS ENGLISH I

The ninth grade honors program provides all of the experiences of the college preparatory program; in addition, the material studied is enriched, requiring students to pursue, in greater depth, the survey of the major genres of world literature with instruction in definition, development, and self-expression. The method and expectation of instruction allow for a high level of integration of the various topics of the program to establish relevance and to encourage superior performance. Many methods of oral and written evaluation are employed. Individual progress and growth are stressed through activities requiring self, peer, and instructor assessment.

Grade 9**Credits: 5**

Prerequisite: Placement will be based on the Honors Qualifying Process

JOURNALISM

This course will focus on the principles of journalism through the development of a school publication, including a school newspaper. Students will create original news, sports, feature and editorial stories using varied writing techniques. Students will learn to create computer-generated layouts and graphics.

Grades 9, 10, 11, 12**Credits: 5****ENGLISH II CP**

The tenth grade college preparatory course is designed to provide students with a survey of American literature. The course also includes a literature-based vocabulary program stressing meaning and usage. The composition program stresses expository writing building to a research project. Skills necessary for success on the New Jersey state test will be reinforced.

Grade 10**Credits: 5**

Prerequisites: English I CP and teacher recommendation

ENGLISH II ADVANCED CP

English II Advanced College Prep enhances the tenth grade college preparatory study of American literature. It is a more intensive course requiring more studying and more homework. More literature is read in its entirety and studied in greater depth, and additional compositions are assigned. A more rigorous vocabulary program is included. The instructor will employ a faster pace that will allow for this enhancement. Research papers/projects employing basic research elements are required.

Grade 10**Credits: 5**

Prerequisites: Grade of C or better in English I Advanced CP and teacher recommendation, or grade of A in English I CP and teacher recommendation

HONORS ENGLISH II

The basic subject matter of Honors English II parallels that of the tenth grade college preparatory courses. The honors students are given reading instruction designed to increase their ability to read at the fact and concept levels; however, they are also required to read at the value level. Students are asked to form opinions based on the merit of the ideas and writing techniques expressed and used during the various periods of the development of American literature. The students are required to examine the author's skills in the use of vocabulary and their approach to character development. American literature is studied from a social, historical, and philosophical viewpoint. A literature-based vocabulary program is stressed, and various research papers are required.

Grade 10

Credits: 5

Prerequisites: Grade of C or better in Honors English I and teacher recommendation, or grade of A in English I Advanced CP and teacher recommendation

ENGLISH III CP

The eleventh grade college preparatory course provides an opportunity to survey British literature. Special emphasis is placed on understanding the historical, cultural, social, economic, political, and religious influences on the development of literature. Close critical reading is stressed. The major thrust on the Elizabethan Age is Shakespeare and his contributions to English literature. Literature-based vocabulary is studied with weekly lessons and assessments. Emphasis is placed on expository writing with a focus on structure, grammar, and usage.

Grade 11

Credits: 5

Prerequisites: English II CP and teacher recommendation

ENGLISH III ADVANCED CP

English III Advanced College Prep elaborates on the eleventh grade college preparatory curriculum that includes British literature. *Hamlet* and/or *Macbeth* is studied, as are some Shakespearean lyrics and sonnets. This is a more intensive course requiring more studying and more homework. Additional literary works are read, and more compositions are written, requiring the pace of this class to be increased. Research is also required.

Grade 11

Credits: 5

Prerequisites: Grade of C or better in English II Advanced CP and teacher recommendation

MYSTERY & HORROR IN BRITISH AND AMERICAN LITERATURE

This elective course is a survey of the genres of mystery and horror in British and American literature. Students will gain an understanding of the roots of horror and mystery in literature and the contextual environments in which these stories and novels were created. Students will also analyze and respond to such literary elements as suspense, foreshadowing, situational irony, verbal irony, and dramatic irony. Both nonfiction articles and fictional works will be studied including, but not restricted to, the works of Nathaniel Hawthorne, Edgar Allan Poe, Henry James, Ambrose Bierce, H. H. Munro (Saki), Agatha Christie, and Stephen King.

Grades 11, 12

Credits: 2.5 (Semester)

Prerequisite: Grade of C or better in English I, II

WORLD MYTHOLOGY

This one semester elective explores topics around world myths including what they are and how they developed. Students who elect this course will come to an understanding that mythology offers valuable information about the nature of humanity and how myths represent and illustrate cultural diversity and the universality of the human experience.

Grades 11, 12

Credits: 2.5 (Semester)

Prerequisite: Grade of C or better in English I, II

CREATIVE WRITING

Creative Writing is a semester class designed to support students who have a passion for writing in their skills. As an elective, this class uses a skill-intensive and workshop approach to supplement and extend content taught in the English Language Arts curriculum. In a small-class, workshop environment, students acquire skills to improve their writing skills through an artistic, genre-based venue. Students deepen their understanding and ability to use the crafts behind writing within various genre-based units. In this course students have opportunities to deepen their passion for writing, build relationships, practice self-awareness and self-management through written expression and collaborate with peers.

Grades 11, 12

Credits: 2.5 (Semester)

ENGLISH IV CP

The twelfth grade college preparatory course examines a variety of literary genres including the novel, the short story, drama, and poetry through world literature. Students will critically examine texts to understand their value and meaning for the individual and within the context of the literary world. Students will develop and justify evaluations of literary texts while also extending their understanding to include other points of view. They will interpret text based on personal insight and literary theory. Essay writing leading to a research paper on a literary topic is required.

Grade 12**Credits: 5**

Prerequisites: English III CP and teacher recommendation

ENGLISH IV ADVANCED CP

The English IV Advanced CP course examines a variety of literary genres including the novel, the short story, drama, and poetry through world literature with a foundation of the classics. The course critically examines texts to understand their value and meaning not only for the individual reader, but also within the context of the larger literary community. Students will develop and justify personal evaluations of literary texts while also extending their understanding to include other points of view. Students will interpret text based on personal insight and literary theory, and will be introduced to literary discourse. Essay writing leading to a research paper on a literary topic is required. Since more difficult reading and more writing is required, this course is taught at an advanced pace.

Grade 12**Credits: 5**

Prerequisites: Grade of C or better in English III Advanced College Prep and teacher recommendation

ADVANCED PLACEMENT ENGLISH: LITERATURE AND COMPOSITION

The Advanced Placement course seeks to prepare the academically able student for the Advanced Placement Examination through close, critical reading of world selections of recognized literary merit chosen from various genres and through disciplined, organized, structurally sound essay writing. A research paper on a literary topic is required. The AP student is expected to have knowledge of the linguistic and grammatical conventions of the English language and to have a willingness to be challenged with a demanding curriculum. Preparation of the student includes rigorous practice geared towards the Advanced Placement exam.

Grade 12**Credits: 5**

Prerequisites: Grade of C or above in Honors English III and teacher recommendation

ADVANCED PLACEMENT ENGLISH: LANGUAGE AND COMPOSITION

The AP English Language and Composition course is writing intensive. The course incorporates reading and writing skills required to be successful in college and “civic engagement.” The student will be guided to become a responsive reader and a reflective writer through the use of texts from various genres. The course focuses on rhetoric and the conventions of written language. It expands the student’s understanding about the different levels of written and spoken language and which type is preferred for “academic discourse.” The student must have a willingness to be challenged with a demanding curriculum. Preparation of the student includes rigorous practice geared towards the Advanced Placement exam.

Grade 11**Credits: 5**

Prerequisites: Grade of C or above in Honors English II and teacher recommendation

ENGLISH LANGUAGE LEARNING

English Language Learning is designed to help students with limited English skills demonstrate basic proficiency in English by meeting the State of New Jersey minimum standards in reading and writing as measured by the New Jersey state assessments. Students in grades 9-12 are provided individual and small group instruction. Learning activities are provided in increasing difficulty on an individual basis. The basics of English as well as conversational skills are stressed.

Grades 9, 10, 11, 12**Credits: 5**

FINANCIAL LITERACY

Newton High School offers two one-semester courses that satisfy the financial literacy graduation requirement. This requirement can also be met through other elective courses, i.e. Intro to Business and Independent Living.

ECONOMICS

Economics is defined as the science of the production, distribution, and consumption of goods and services. This course will study the principles of economics that apply to the system as a whole. The course will emphasize national income and price determination. Students will study measures of economic growth and performance at a national and international level. Specialized focus will be placed on personal finances and the economic challenges posed in the transition from high school to higher education to adult life.

Grades 9, 10, 11, 12

Credits: 2.5 (Semester)

FINANCIAL LITERACY

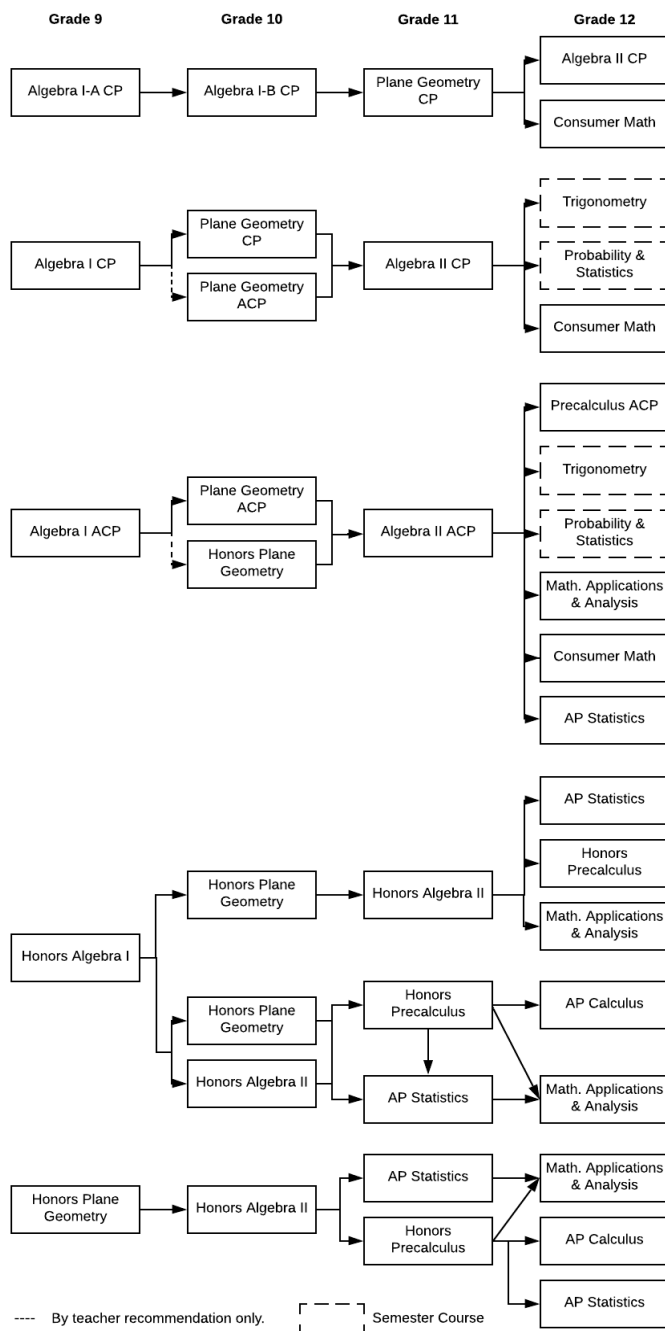
This course will study the principles of money management as they apply to personal financial responsibility. The course will emphasize planning, saving and investing. Students will study money, credit, debt and risk management. Additional topics to be covered include thinking critically as a consumer, civic financial responsibilities and insurance. Specialized focus will be placed on income as it relates to career paths chosen through adult life.

Grades 9, 10, 11, 12

Credits: 2.5 (Semester)

MATHEMATICS

The Mathematics Department offers a full range of college preparatory courses from Algebra I through Calculus at various ability levels. The student should keep his/her own educational goals in mind when selecting mathematics courses. Placement will be based on teacher recommendation and other qualifying information. Skills outlined in the NJ Student Learning Standards (NJSLS) for Mathematics are addressed in all courses.



ALGEBRA I-A CP

This course is the first in a sequence of two years that will cover the Algebra I CP curriculum. Students taking this course will complete the study of Algebra I by taking Algebra I-B CP in the following school year. The pace of this course will allow for intervention as needed. Students will be recommended to this level if they need to strengthen their Algebra skills.

Grade 9

Credits: 5

Prerequisite: Eighth grade teacher recommendation

ALGEBRA I-B CP

Upon completion of Algebra I-B, the second course in the sequence, students will have completed curriculum taught in a full year Algebra I course and will be prepared to take Geometry and Algebra II. Algebra I-A and I-B together meet the Algebra I requirement for graduation.

Grade 10**Credits: 5**

Prerequisite: Successful completion of Alg. I-A

ALGEBRA I CP

This course begins with pre-algebra skills and extends what students have learned to transition into more advanced topics. Topics include understanding the real number system, linear equations, inequalities, graphing, linear systems, factoring, quadratic equations and radicals.

Grade 9**Credits: 5**

Prerequisite: Eighth grade teacher recommendation

ALGEBRA I ADVANCED CP

Algebra I Advanced CP is an intensive course. It is expected that students will come into this course with a strong foundation in pre-algebra and number sense. Topics include linear equations, inequalities, graphing, factoring, rational expressions, fractional equations, quadratic equations, and radicals. In Algebra I Advanced CP, skills are enriched through advanced applications of the concepts, while the instructors employ a pace that allows this enhancement.

Grade 9**Credits: 5**

Prerequisite: Eighth grade teacher recommendation

HONORS ALGEBRA I

Honors Algebra I provides all of the experiences of the Algebra I Advanced CP program; in addition, the material studied is enriched and covered with much more intensity and depth. The method and expectation of instruction allow for a high level of integration of the various topics of the program to establish relevancy and encourage superior performance. Applications are stressed whenever possible. Additional topics include absolute value inequalities, applications of linear systems and additional graphing. Linear, quadratic and exponential functions will be stressed. Supplementary topics are covered in order to prepare the students for success in Algebra II Honors.

Grade 9**Credits: 5**

Prerequisite: Eighth grade teacher recommendation, strong math skills and work ethic

GEOMETRY CP

This course develops geometric ideas and builds upon them based on definitions, postulates and theorems. Plane Geometry CP has emphasis on geometric concepts with a constant review of skills taught in Algebra I CP. Formal proofs are introduced throughout the course while applications of the theorems are more thoroughly stressed.

Grades 10, 11**Credits: 5**

Prerequisites: Successful completion of Alg. I-A and Alg. I-B, Algebra I CP or ACP and teacher recommendation

GEOMETRY ADVANCED CP

Plane Geometry Advanced CP stresses reasoning and the traditional methods of proof while covering all of the concepts taught in Plane Geometry CP. Deductive proofs are introduced early and stressed throughout the remainder of the course. This course develops geometric ideas and builds upon them based on definitions, postulates and theorems. Topics covered include points, lines, planes, angles, polygons, circles, triangles, trigonometry, congruence and similarity, coordinate geometry, areas and volumes.

Grades 10, 11**Credits: 5**

Prerequisites: Grade of C or better in Algebra I Advanced CP or an A in Algebra I CP and teacher recommendation

HONORS GEOMETRY

Honors Plane Geometry stresses reasoning and methods of proof while covering topics such as lines, angles, polygons, circles, areas and volumes of polyhedrons. Traditional deductive proofs and abstract reasoning skills are the emphasis of this course. Students are expected to develop proofs using definitions, postulates and theorems.

Grades 9, 10**Credits: 5**

Prerequisites: Grade of C or better in Honors Algebra I (8th graders taking course at NHS) and teacher recommendation.

Additional requirements in place for 8th graders taking Honors Algebra I at their current middle school.

ALGEBRA II CP

This is a sequential course to Algebra I CP. Concepts covered include logarithms, complex numbers, progressions, polynomial functions, simultaneous equations and inequalities, graphs and real numbers as exponents.

Grades 11, 12

Credits: 5

Prerequisites: Successful completion of Algebra I and Geometry

ALGEBRA II ADVANCED CP

Algebra II Advanced CP builds on the algebraic and geometric concepts taught in Algebra I ACP and Geometry ACP. Skills are enriched through advanced applications of the concepts while the instructors employ a pace that allows this enhancement. Concepts covered include logarithms, complex numbers, progressions, polynomial functions, conic sections, simultaneous equations and inequalities, graphs and real numbers as exponents.

Grade 11

Credits: 5

Prerequisites: Grade of C in Algebra I Advanced CP or grade of A in Algebra I CP and teacher recommendation, successful completion of Geometry (or concurrent enrollment and teacher recommendation)

HONORS ALGEBRA II

Honors Algebra II is an intensive, accelerated course designed to prepare students for Honors Precalculus and AP Calculus. The material is enriched and covered with much more intensity and depth. The method and speed of instruction and number of topics covered require superior student performance. Additional topics include abstract operations, applications of linear systems, binomial theorem, Pascal's triangle and the analysis of graphs.

Grades 10, 11

Credits: 5

Prerequisites: Grade of C or better in both Honors Algebra I and Honors Geometry. Students who earn an A in Honors Algebra I may elect to take both Honors Geometry and Honors Algebra II concurrently, with teacher recommendation.

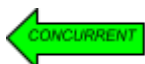
PRECALCULUS ADVANCED CP

Students intending to study mathematical and scientific related fields during their college experience should elect to take Precalculus. This course places emphasis on algebraic and trigonometric concepts, along with graphical techniques and analytic geometry.

Grades 11, 12

Credits: 5

Prerequisites: Grade of B or better in both Geometry Advanced CP and Algebra II Advanced CP

HONORS PRECALCULUS

This course covers trigonometric and circular functions, sequences and series, analytic geometry, complex numbers, polynomial functions, exponential and logarithmic functions, and limits.

Grades 11, 12

Credits: 5

Prerequisites: Grade of C or better in both Geometry Honors and Algebra II Honors, and teacher recommendation

TRIGONOMETRY

This is a semester course covering the unit circle and other circular functions; trigonometric functions, their graphs and identities; solutions to trigonometric equations, trigonometric form of complex numbers, vectors and applications of each.

Grades 11, 12

Credits: 2.5 (Semester)

Prerequisites: Successful completion of Algebra I, Geometry and Algebra II. Credits will not be given to students who already successfully completed Precalculus.

PROBABILITY AND STATISTICS

This is a semester course designed to introduce the student to probability theory and statistical inference. Topics to be covered will include permutations, combination, binomial theorem, odds, mutually and non-mutually exclusive events, frequency distributions, measures of central tendency and variability, normal distributions and normal curves, and interpretation of areas under the normal curve.

Grades 11, 12

Credits: 2.5 (Semester)

Prerequisites: Grade of C or better in Geometry Advanced CP and Algebra II Advanced CP; Grade of B or better in Algebra II CP

CONSUMER MATH

Consumer Math is designed to prepare the student for the practical applications of mathematics to life experiences. It covers family budgets, savings and checking accounts, mortgages, basic cash and credit buying, property sales and income taxes, auto, health and life insurance, and all forms of investing. This course also satisfies the Financial Literacy graduation requirement.

Grade 12

Credits: 5

Prerequisite: Teacher recommendation

MATHEMATICAL APPLICATIONS AND ANALYSIS

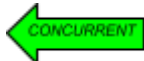
This course, designed to follow Precalculus, will broaden the student's background in mathematics and cover more college level mathematical concepts including non-routine problems. Students will study such topics as sets, logic, voting theory, probability and statistics concepts, counting principles, financial management and graph theory. Through this course, students will gain deeper insight into the applications of mathematics.

Grade 12

Credits: 5

Prerequisite: Grade of C or better in Precalculus or Trigonometry/Probability & Statistics

ADVANCED PLACEMENT CALCULUS AB



This course covers analytic geometry and is an introduction to both differential and integral calculus and their applications. Graphing calculators will be used to cover some concepts. This is equivalent to one semester of college Calculus.

Grade 12

Credits: 5

Prerequisites: Grade of C or better in Honors Precalculus or current enrollment in Honors Precalculus, and teacher recommendation

ADVANCED PLACEMENT STATISTICS



This is an introductory college-level statistics course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students cultivate their understanding of statistics using technology, investigations, problem solving, and writing as they explore concepts like variation and distribution; patterns and uncertainty; and data-based predictions, decisions, and conclusions.

Prerequisites: Grade of B or better in Honors Algebra II or ACP Algebra II

Credits: 5

Other Electives

CHOICES AND CHALLENGES

This course presents a review of math and language arts skills that are assessed in the SAT test. Test taking strategies and the fundamentals of essay writing are also covered. The art of student resume writing and the college search process are explored.

Grades 11, 12

Credits: 2.5 (Semester)

SENIOR SERVICE PROGRAM

This course is designed to offer seniors the opportunity to work with a high school staff member in projects varying in nature and complexity. Students will be assigned to high school staff as needed.

Grade 12

Credits: 2.5

Prerequisites: 2.0 G.P.A or higher and good school citizenship

Physical Education/Health

Each student is required by New Jersey state law to successfully complete four years of Physical Education unless he/she is excused for medical reasons. The Physical Education curriculum is designed to offer each student a variety of activities to help him/her develop sports' skills and strategies related to muscular strength, endurance, flexibility and cardiovascular endurance. Skills outlined in the New Jersey Student Learning Standards (NJSLS) for Health and Physical Education are addressed in all courses.

Appropriate Physical Education clothing and sneakers are required to be successful in these courses.

PHYSICAL EDUCATION/HEALTH

Physical Education: Each student is required by New Jersey state law to successfully complete four years of Physical Education unless excused for medical reasons. The Physical Education curriculum is designed to offer each student a variety of activities to help develop sports' skills and strategies related to muscular strength, endurance, flexibility and cardiovascular endurance. Skills outlined in the New Jersey Student Learning Standards (NJSLS) for Health and Physical Education are addressed in all courses.

Health Education: Each student is required by New Jersey state law to successfully complete four years of Health Education. Grades 9, 11 and 12 will receive education based on the following topics: Social and Emotional Learning, Bullying, Family Life and Substance Use and Abuse. Grade 10 students are required to take Drivers Education where they will receive the materials and knowledge for the NJ State Driver's Test. They will be instructed on how to obtain "Behind The Wheel" (6 hours).

Grades 9, 10, 11, 12

Credits: 5

PHYSICAL EDUCATION/HEALTH (w/ Lab Science)

Grades 9, 10, 11, 12

Credits: 4

Prerequisite: Enrollment in a Lab Science

HEALTH & WELLNESS

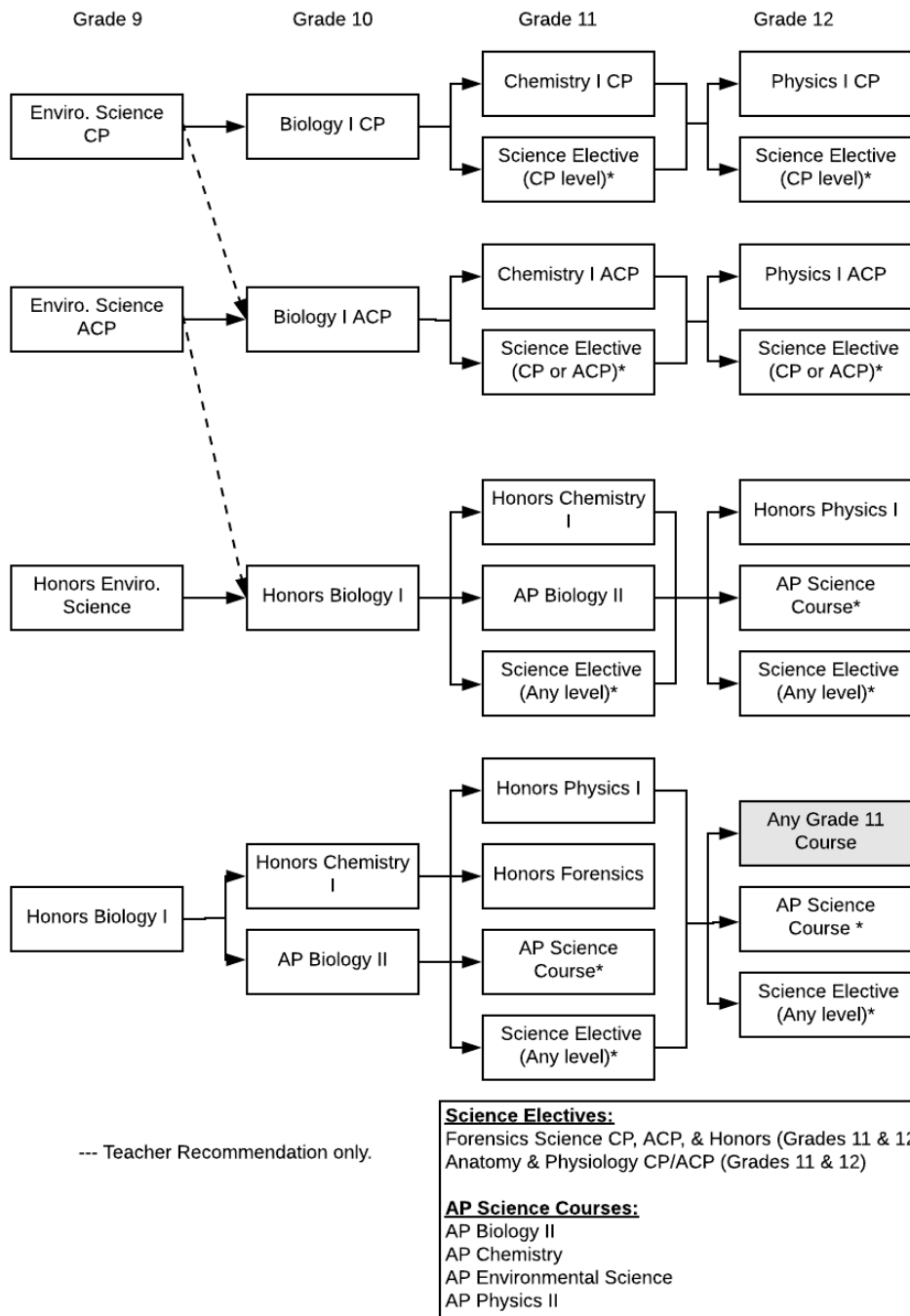
The primary goal of the Health & Wellness Course is to provide opportunities for students to gain the knowledge and experiences necessary for developing attitudes and practice opportunities to make informed decisions with regards to social, emotional, and physical well-being. This new knowledge will assist students to develop and maintain good health practices while living safely in a constantly evolving world. The course content will focus on personal health and wellness, as well as help students develop the practice of health-enhancing behaviors to avoid or reduce health risks.

Grades 10, 11, 12

Credits: 2.5 (Semester)

SCIENCE

The science courses are designed to educate students in basic scientific principles, recently advanced theories and newly developed technologies. Skills outlined in the New Jersey Student Learning Standards (NJSLS) for Science are addressed in all courses.



ENVIRONMENTAL SCIENCE CP (Lab Science)

The goal of this course is to introduce environmental knowledge and awareness so that student decision-making can be consistent with personal, societal, and environmental sustainability and well-being. The course includes aspects of earth science and biology, which combine to provide a rounded picture of environmental insights. Laboratory and outdoor investigations are conducted. Labs are performed during regularly scheduled classes.

Grades 9, 10

Credits: 5

Prerequisite: Placement will be based on the recommendation of the eighth grade science teacher.

ENVIRONMENTAL SCIENCE ADVANCED CP (Lab Science)

The goal of this course is to introduce environmental knowledge and awareness so that student decision-making can be consistent with personal, societal, and environmental sustainability and well-being. The course includes aspects of earth science and biology, which combine to provide a rounded picture of environmental insights. Laboratory and outdoor investigations are conducted. Labs are performed during regularly scheduled classes.

Grades 9, 10, 11, 12

Credits: 5

Prerequisite: Placement will be based on the recommendation of the eighth grade science teacher. Student is recommended to have taken or be taking Algebra I ACP.

HONORS ENVIRONMENTAL SCIENCE (Lab Science)

The goal of this course is to introduce environmental knowledge and awareness so that student decision-making can be consistent with personal, societal, and environmental sustainability and well-being. The course includes aspects of earth science and biology, which combine to provide a rounded picture of environmental insights. Laboratory and outdoor investigations are conducted. Labs are performed during regularly scheduled classes. **Students enrolling in this course for honors credit are expected to fulfill projects and assignments above and beyond the standard ACP course requirements.**

Grades 9, 10, 11, 12

Credits: 5

Prerequisite: Placement will be based on the recommendation of the eighth grade science teacher. Student is recommended to have taken or be taking Honors Algebra I.

AP ENVIRONMENTAL SCIENCE (Lab Science)

This course is the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students will participate in hands-on, laboratory and field investigations to apply scientific principles, concepts, and methodologies in order to better understand our natural systems and to critically think about environmental issues and potential solutions. This course involves a lunch lab two times per week.

Grades 11, 12

Credits: 7

Prerequisite: Grade of C or better in Honors Environmental Science/Honors Biology or grade of A in Environmental Science ACP/Biology ACP

BIOLOGY I CP (Lab Science)

Biology I CP presents a unique view of biological concepts in animal and plant studies, human physiology, disease, consumerism and careers. The Biology CP course covers all of the basic concepts in biology. Ideas are immediately applied to daily experience and many lab exercises add to the concrete application of principles.

Grades 10, 11

Credits: 6

Prerequisites: Environmental CP, Algebra I and teacher recommendation

BIOLOGY I ADVANCED CP (Lab Science)

Through laboratory work, class discussions and pertinent readings, students investigate the unifying themes of biology. The recent explosion of biological knowledge is blended with traditional topics as students probe the characteristics of life, cell biology, energy relationships, genetics, evolution, ecology, and the anatomy, physiology and health in the human body. Problem solving and critical thinking are stressed as students inquire into the nature of life.

Grades 10, 11

Credits: 6

Prerequisites: Environmental ACP or CP, Algebra I and teacher recommendation

Corequisite: Geometry ACP or Algebra II ACP

HONORS BIOLOGY I (Lab Science)

This course puts cutting edge topics at its core as it emphasizes the commonality of chemical and evolutionary processes among the diversity of living species today. Problem solving, critical thinking, and teamwork skills are stressed through laboratory exercises, class discussion, and library research as students investigate the unifying themes of biology. The current explosion of biological knowledge is blended with traditional topics as students use the process of science to probe biochemistry, energy relationships, heredity, the universal genetic code, development, evolution, populations, ecosystems, and the impact of science on society.

Grades 9, 10

Credits: 6

Prerequisites: Grade 9- Placement of freshmen will be based on the recommendation of the eighth grade science teacher and additional academic requirements. Grade 10- Environmental Advanced CP or Honors Environmental, Algebra I Advanced CP, teacher recommendation.

Corequisite: Geometry or Algebra II at the Honors or Advanced CP level.

CHEMISTRY I CP (Lab Science)

This course is designed to give the student a background in the basic principles of chemistry with emphasis on the problem solving method. The Chemistry CP course covers all of the basic concepts in chemistry. Ideas are immediately applied to daily experience and many lab exercises add to the concrete application of principles.

Grades 11, 12

Credits: 6

Prerequisites: Biology I CP, Algebra I and teacher recommendation

Corequisite: Geometry or Algebra II

CHEMISTRY I ADVANCED CP (Lab Science)

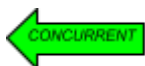
This course is designed to give the student a thorough background in the basic principles of chemistry with emphasis on the problem solving method. Chemistry I ACP is designed to adequately prepare the student to cope with the work that will be expected in a first level college course.

Grades 10, 11, 12

Credits: 6

Prerequisites: Biology I ACP or CP, Algebra I and teacher recommendation

Corequisite: Geometry ACP or Algebra II ACP

HONORS CHEMISTRY I (Lab Science)

This course is similar in its objectives to the Chemistry I ACP course. The difference is in the amount, depth and speed of the material covered. The Honors course covers an additional six chapters including organic chemistry and reactions, kinetics, equilibrium, and nuclear chemistry.

Grades 10, 11

Credits: 6

Prerequisites: Biology Advanced CP or Honors Biology I, Algebra I Advanced CP, teacher recommendation

Corequisite: Geometry and Algebra II at the Honors or Advanced CP level

FORENSIC SCIENCE CP (Lab Science)

Students in forensic science will use the principles of biology, physics, and chemistry to examine evidence used in criminal investigations. Students will participate in coursework and laboratory exercises to collect, analyze and interpret physical evidence. Some of the areas of forensic science covered will include trace evidence, forensic anthropology, serology, toxicology, pathology, odontology, DNA, latent fingerprints, hair/fiber analysis, questioned documents, ballistics and behavioral science. Students will use teamwork skills and scientific techniques to solve mock crimes throughout the school year in preparation for the final assessment, solving a mock murder.

Grades 11, 12

Credits: 5

Prerequisite: Two years of science at the CP level

FORENSIC SCIENCE ADVANCED CP (Lab Science)

Students in forensic science will use the principles of biology, physics and chemistry to examine evidence used in criminal investigations. Students will participate in coursework and laboratory exercises to collect, analyze and interpret physical evidence. Some of the areas of forensic science covered will include trace evidence, forensic anthropology, serology, toxicology, pathology, odontology, DNA, latent fingerprints, hair/fiber analysis, questioned documents, ballistics, and behavioral science. Students will use teamwork skills and scientific techniques to solve mock crimes throughout the school year in preparation for the final assessment, solving a mock murder.

Grades 11, 12

Credits: 5

Prerequisites: Two years of science at the ACP level, teacher recommendation

HONORS FORENSIC SCIENCE (Lab Science)

This course is similar in its objectives to the Forensics ACP course. The difference is in the amount, depth and speed of the material covered. The Honors course covers an additional three units including forensic pathology, entomology, and psychology.

Grades 11, 12

Credits: 5

Prerequisites: Chemistry ACP or Honors and teacher recommendation

PHYSICS I CP (Lab Science)

This course is designed to give the student a background in the basic principles of physics with emphasis on the problem solving method. The Physics CP course covers all of the basic concepts in physics. Ideas are immediately applied to daily experience and many lab exercises add to the concrete application of principles.

Grades 11, 12

Credits: 6

Prerequisites: Chemistry I CP, Geometry CP and teacher recommendation

Corequisite: Algebra II CP

PHYSICS I ADVANCED CP (Lab Science)

This course investigates and explains the physical laws of the universe. Problem solving and experimentation are stressed throughout the course. Topics included are force and motion, work power and energy conservation, momentum and collision theory, gravitation and satellite motion, thermal properties of matter, thermodynamics, wave motion, sound, light and optics, static electricity, DC electricity, atomic and nuclear physics. The study of physics is essential for students contemplating further work in the physical sciences, engineering, mathematics, computer sciences, biology and the health sciences.

Grades 11, 12

Credits: 6

Prerequisites: Biology I CP, Chemistry I Advanced CP, Geometry Advanced CP and teacher recommendation

Corequisite: Algebra II Advanced CP

HONORS PHYSICS I (Lab Science)

This course is similar in its objectives to the Physics I course. The difference is in the amount, depth and speed of the material covered. This course is intended for those students who desire and need a rigorous physics background for further study in engineering, mathematics or the sciences.

Grades 11, 12

Credits: 6

Prerequisites: Biology Advanced CP or Honors, Honors Chemistry I, Honors Algebra I, Honors Algebra II, Honors Geometry, and Chemistry teacher recommendation

Corequisite: Honors Precalculus

ADVANCED PLACEMENT BIOLOGY II (Lab Science)

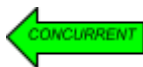
This course is the academic equivalent of a college course. Current topics are emphasized, including the origin of life, the development of cancer, molecular genetics, biotechnology, and emerging diseases. Major concepts are approached through advanced laboratory investigations. Sophisticated lab equipment and techniques provide valuable experience for the college bound student. Research assignments and field trips are also an integral part of the course. The course provides excellent preparation for students who intend to major in some aspect of biological science in college. Career opportunities in the biological sciences are explored. This course includes a lunch lab two days per week.

Grades 10, 11, 12

Credits: 7

Prerequisites: Honors Biology I, Honors Chemistry or corequisite, and teacher recommendation

Co-requisite: Honors Chemistry (juniors)

ADVANCED PLACEMENT CHEMISTRY (Lab Science)

This course is designed to be the equivalent of a college course. Students in this course will attain a depth of understanding through the study of the following topics: atomic theory and structure, chemical bonding, gas, liquids, solids, solutions, reaction types, stoichiometry, equilibrium, kinetics, thermodynamics, organic chemistry, and nuclear chemistry. This course includes a lunch lab two days per week.

Grades 11, 12

Credits: 7

Prerequisites: Honors Chemistry I, Honors Biology I, Honors Algebra II and teacher recommendation

Co-requisite: Honors Precalculus or AP Calculus

ADVANCED PLACEMENT PHYSICS II C: Mechanics (Lab Science)

This one semester course is a study in general physics on the college level. The course content includes linear and rotational mechanics, heat, energy relationships, energy conservation and fluid dynamics. This course is intended for those students who desire and need a rigorous physics background for further study in engineering, mathematics or the sciences. This course includes a lunch lab two days per week.

Grade 12

Credits: 3.5 (Semester)

Prerequisites: Honors Physics I or Honors Chemistry I with teacher recommendation

Co-requisite: AP Calculus

ADVANCED PLACEMENT PHYSICS II C: Electricity & Magnetism (Lab Science)

This one semester course is a study in general physics on the college level. The course content includes waves, electricity, charge, potential, current, circuits, magnetism, and induction. This course is intended for those students who desire and need a rigorous physics background for further study in engineering, mathematics or the sciences. This course includes a lunch lab two days per week.

Grade 12

Credits: 3.5 (Semester)

Prerequisites: Honors Physics I or Honors Chemistry I with teacher recommendation

Co-requisite: AP Calculus

ANATOMY & PHYSIOLOGY (Lab Science)

This course is for students interested in any medical or health-related career. Current topics include appropriate terminology, anatomical structures and functions, physiological systems, homeostatic imbalances, and healthy life choices. Major concepts are approached through advanced laboratory investigations. Sophisticated lab equipment and techniques provide valuable experience for the college bound student. Career opportunities in the medical sciences are explored.

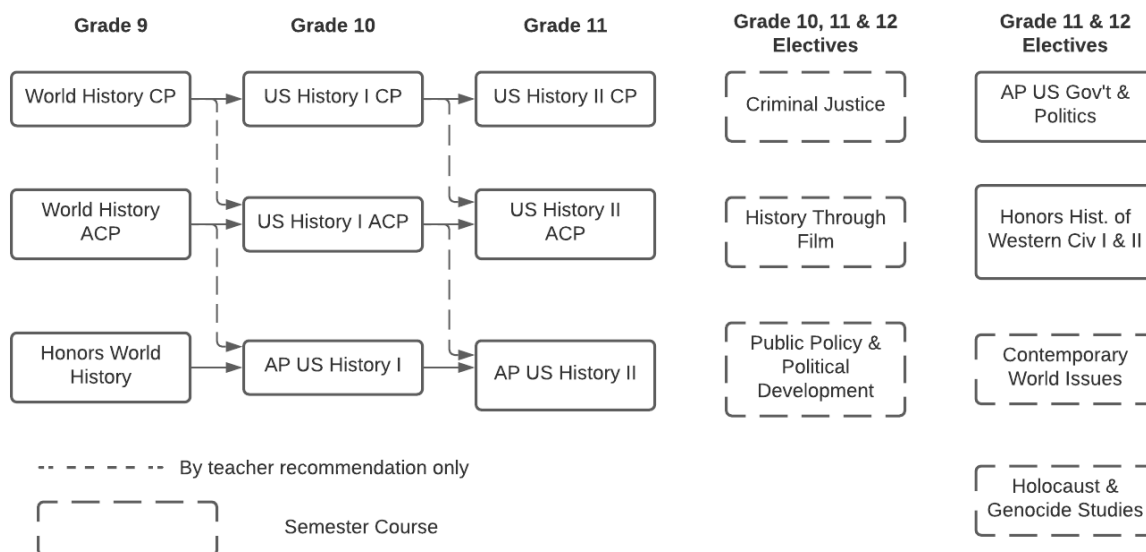
Grades 11, 12

Credits: 5

Prerequisites: Biology CP and teacher recommendation; or Biology ACP or Honors

Social Studies

Social Studies courses are designed to help young people become critically thinking adults who are able to effectively deal with the changing demands of our democratic society in a complex world. In addition to knowledge attainment, Social Studies deals with attitudes, values, and skills which are important in the occupational, social, familial, and political lives of adults in our society. Skills outlined in the New Jersey Learning Standards (NJSLS) for Social Studies are addressed in all courses.



WORLD HISTORY CP

World History CP covers the major developments in the history of mankind from the Renaissance Period to the modern era. It is a survey course which emphasizes certain critical periods and cultures in both the Western and nonwestern world. Special attention is given to important individuals who have shaped our world's history. Better understanding of the present through deeper knowledge of the past is an underlying objective of this course. The student will be encouraged to appreciate and respect the diverse cultures that are studied and to relate them to their own world. Various skills such as reading, note taking, library research, report and project preparation, map and graph reading and group participatory activities are emphasized. Increased knowledge of world geography is also a goal of this course.

Grade 9

Credits: 5

Prerequisite: Eighth grade teacher recommendation

WORLD HISTORY ADVANCED CP

World History Advanced CP is a comprehensive survey of the historical development of human cultures from the Renaissance Period to the present stressing their similarities and diversities. Attention is given to balancing political and economic development with the growth of ideas, religions, education, the arts and other aspects of intellectual and social history. The student will be encouraged to appreciate and respect the diverse cultures that are studied and to relate them to their own world. World History is designed to help students understand the past, develop an awareness of the present, and prepare for the future through an understanding of the past contributions of various cultures to our present world.

Grade 9

Credits: 5

Prerequisite: Eighth grade teacher recommendation

HONORS WORLD HISTORY

Honors World History is a comprehensive survey of the historical development of human culture from the Renaissance to the present. Designed for highly motivated students with advanced critical thinking, reading, writing and oral communication skills, this course will challenge students and prepare them for future expectations in an Advanced Placement level course. Students will evaluate the development of political institutions, economic trends, cultural change, and armed conflict, linking historical events to relevant trends in today's world. The development of sophisticated analytical and writing skills will enable students to function as contributing citizens in an ever-increasingly global society. These skills will be reinforced through numerous challenging reading, writing and oral assignments with emphasis placed on critical analysis and the ability to work independently.

Grade 9

Credits: 5

Prerequisites: Eighth grade teacher recommendation, grade of A in eighth grade history, strong reading and writing skills and work ethic. A writing assessment will also be part of the placement process.

UNITED STATES HISTORY I CP

United States History I CP covers various aspects of the history of the United States from the period of the Civil War to the Post Depression Era. Political, social, economic, military and geographic history is included. One marking period will be dedicated to the teaching of American Government and Principles. Special emphasis is also placed on the lives of individuals who have contributed to the development of our nation and its institutions. Special attention is also given to the history of our state. Throughout the course, students are encouraged to relate what they are studying to current affairs and problems.

Grades 10, 11

Credits: 5

Prerequisites: World History and teacher recommendation

UNITED STATES HISTORY I ADVANCED CP

United States History I Advanced CP curriculum covers American Government Foundations and Principles, and United States History spanning the time period from the Civil War to the Post Depression Era. At all stages of the course, students are encouraged to relate what they are studying to current affairs in both the nation and the world. Development of historical events and conflicts is thereby emphasized to assist the growth of an objective attitude toward controversial issues. Emphasis is placed upon improvement of reading skills, map skills, critical thinking processes, verbal skills and interpretative and research skills in teaching of this course.

Grades 10, 11

Credits: 5

Prerequisites: World History and teacher recommendation

ADVANCED PLACEMENT UNITED STATES HISTORY I

Advanced Placement United States History I is the first year of a two-year Advanced Placement curriculum. It covers the time period from the Exploration Period to the New Industrial Age. Advanced Placement United States History I encourages growth in a variety of intellectual and active skills such as critical thinking, decision making, geography and map skills, research techniques and interpretation of graphs, charts, and political cartoons. This is the first part of the two-part AP US History course.

Grades 10, 11

Credits: 5

Prerequisites: Grade of A in World History Advanced CP and teacher recommendation based on superior writing skills

UNITED STATES HISTORY II CP

United States History II CP encompasses curriculum including American Government and Economics, and US History from The Great Depression to the Interconnected Global Society. The topics include the political, economic, social, and geographical development of the United States from World War II to the present. The problems of growth and change in the areas of government, business, foreign policies and technology are emphasized. Great stress is placed on developing and applying attitudes of open-mindedness to controversial issues by a fair consideration of different perspectives.

Grades 11, 12

Credits: 5

Prerequisites: US History I and teacher recommendation

UNITED STATES HISTORY II ADVANCED CP

United States History II Advanced CP covers a two-part curriculum including American Government and Economics, and US History The Great Depression to the Interconnected Global Society. Topics include the political, economic, social and geographical development of the United States from World War II to the present. The problems of growth and change in the areas of government, business, foreign policies and technology are emphasized. Great stress is placed on developing and applying attitudes of open mindedness to controversial issues by a fair consideration of different perspectives. This course moves at an accelerated pace and covers topics in greater depth.

Grades 11, 12

Credits: 5

Prerequisites: US History I and teacher recommendation

ADVANCED PLACEMENT UNITED STATES HISTORY II

The course is the second year of a two year advanced placement curriculum. It covers the time period from the new Industrial Age to the present. The curriculum is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States History. This course prepares students for intermediate and advanced college courses by making demands equivalent to those made by full year introductory college courses. Students who take this course are encouraged to take the AP exam.

Grades 11, 12

Credits: 5

Prerequisites: Grade of B+ or higher in AP U.S. History I and teacher recommendation based on superior writing skills

ADVANCED PLACEMENT UNITED STATES GOVERNMENT AND POLITICS

The AP course in United States Government and Politics will give students an analytical perspective on government and politics in the United States and thorough preparation for the Advanced Placement exam. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It develops familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various political behaviors and outcomes. If it can be arranged, students would also have an opportunity to engage in an internship program through one of the municipal or county government agencies.

Grades 11, 12

Credits: 5

Prerequisites: Grade of B or higher in U.S. History courses at the ACP or AP level and teacher recommendation

SOCIOLOGY

Sociology is offered to senior college preparatory students. It provides the student with an opportunity to better understand the complex structure of American society. The historical backgrounds of sociology are explored, as is the nature of sociology as a science. The course deals with various facets of American culture, group dynamics, social problems and the role of the individual in society. Included among the areas of study are the problems of various minority groups, changing patterns of behavior within our American institutions, and the contributions of world cultures to American values and customs.

Grade 12

Credits: 2.5 (Semester)

Prerequisites: Previous Advanced CP History and English coursework is recommended

SOCIAL PSYCHOLOGY

This course introduces the basic concepts, terminology and vocabulary of psychology. Emphasis is placed on normal rather than abnormal behavior although certain personality disorders will be considered. Historical development of psychology as well as the major contributions of the world's great psychologists will be included in the course. The student will be encouraged to be more objective toward, and sensitive to, his own behavior as well as the behavior of others. Topics include a study of psychological methods, human growth and development, the development of the personality, sensation, perception, and emotion, conflict and adjustment, social behavior, personality disorders and leading psychologists. The course is recommended for college preparatory seniors who are considering a field in the social sciences or who are simply interested in obtaining a fuller understanding of human behavior.

Grade 12 **Credits: 2.5 (Semester)**

Prerequisites: Previous Advanced CP History and English coursework is recommended

CONTEMPORARY WORLD ISSUES

Contemporary World Issues is offered to junior and senior college preparatory students. This course will explore and analyze the current issues facing the United States and the world. Students will analyze the current role of the United States in the world and investigate controversial topics, analyze the political process and explore other problems facing society. Current magazines, newspapers, documentaries, internet sources and selected readings will provide the resources for the content of this course.

Grades 11, 12 **Credits 2.5 (Semester)**

Prerequisite: Grade of C+ or better in World History ACP and US History I ACP is recommended

HISTORY THROUGH FILM

History Through Film is a one-semester course. It will introduce historical themes, events, people and time periods through the medium of film. Each film will present a three-week historical study and critique. The first week covers the time period and people that are represented in the film. In the second week students will view and discuss the film. The third week is comprised of critiquing the historical representation through reviews of the film and individual opinion. Students will be required to research and read professional reviews pertaining to the film. History Through Film is a reading and writing intensive course. Internet access and computer skills are a necessity.

Grades 10, 11, 12 **Credits 2.5 (Semester)**

Prerequisite: Grade of C+ or better in English and History classes

CRIMINAL JUSTICE

Criminal justice is one of the most popular majors at colleges all across the United States. In this course students will be provided an overview of the criminal justice system in the United States. The course will examine the court system and take a look at the correctional system in the United States. Students will be able to discuss current issues involving the criminal system in the United States and discuss what effect they have on the citizens of the United States and the legal system.

Grades 10, 11, 12 **Credits: 2.5 (Semester)**

Prerequisite: Grade of C+ or better in History and English coursework is recommended

PUBLIC POLICY AND POLITICAL DEVELOPMENT

Public Policy and Political Development is an interdisciplinary curricular program for students that promotes competent and responsible participation in local and state government. The course helps participants learn how to monitor and influence public policy. In the process, students develop support for democratic values and principles, tolerance, and feelings of political efficacy. Students will work cooperatively to identify a public policy problem in their community. They then research the problem, evaluate alternative solutions, develop their own solution in the form of a public policy, and create a political action plan to enlist local or state authorities to adopt their proposed policy. Participants develop a portfolio of their work and present their project.

Grades 10, 11, 12 **Credits: 2.5 (Semester)**

HOLOCAUST AND GENOCIDE STUDIES

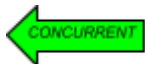
Holocaust and Genocide Studies will enable pupils to identify and analyze applicable theories concerning human nature and behavior; to understand that genocide is a consequence of prejudice and discrimination; and to understand that issues of moral dilemma and conscience have a profound impact on life. This course will further emphasize the personal responsibility that each citizen bears to fight racism and hatred whenever and wherever it happens. This will allow for a more thorough investigation of the topic than is achieved in previous history coursework. In a world where bullying is a constant problem, lessons related to responsibility, empathy, and doing the right thing are important to learn in history and life.

Grades 11, 12

Credits: 2.5 (Semester)

Prerequisites: Grades of C+ or better in Advanced CP History and English coursework is recommended

HONORS HISTORY OF WESTERN CIVILIZATION I



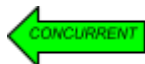
This course emphasizes the political, social, economic, technological, and cultural forces that influenced the historical development of Western Civilization to 1648. Major topics include Ancient Civilizations, Greece and Rome, Middle Ages, Renaissance, and Reformation.

Grades 11, 12

Credits: 2.5 (Semester)

Prerequisite: Teacher recommendation

HONORS HISTORY OF WESTERN CIVILIZATION II



This course is a survey of Western Civilization since 1648 with emphasis on the concepts and historical movements vital to understanding the modern world. Major topics include the development of law and government, the emergence of the major ideologies of the nineteenth and twentieth centuries, the industrial revolution and economic modernization, and the impact of social and cultural development in Western Europe.

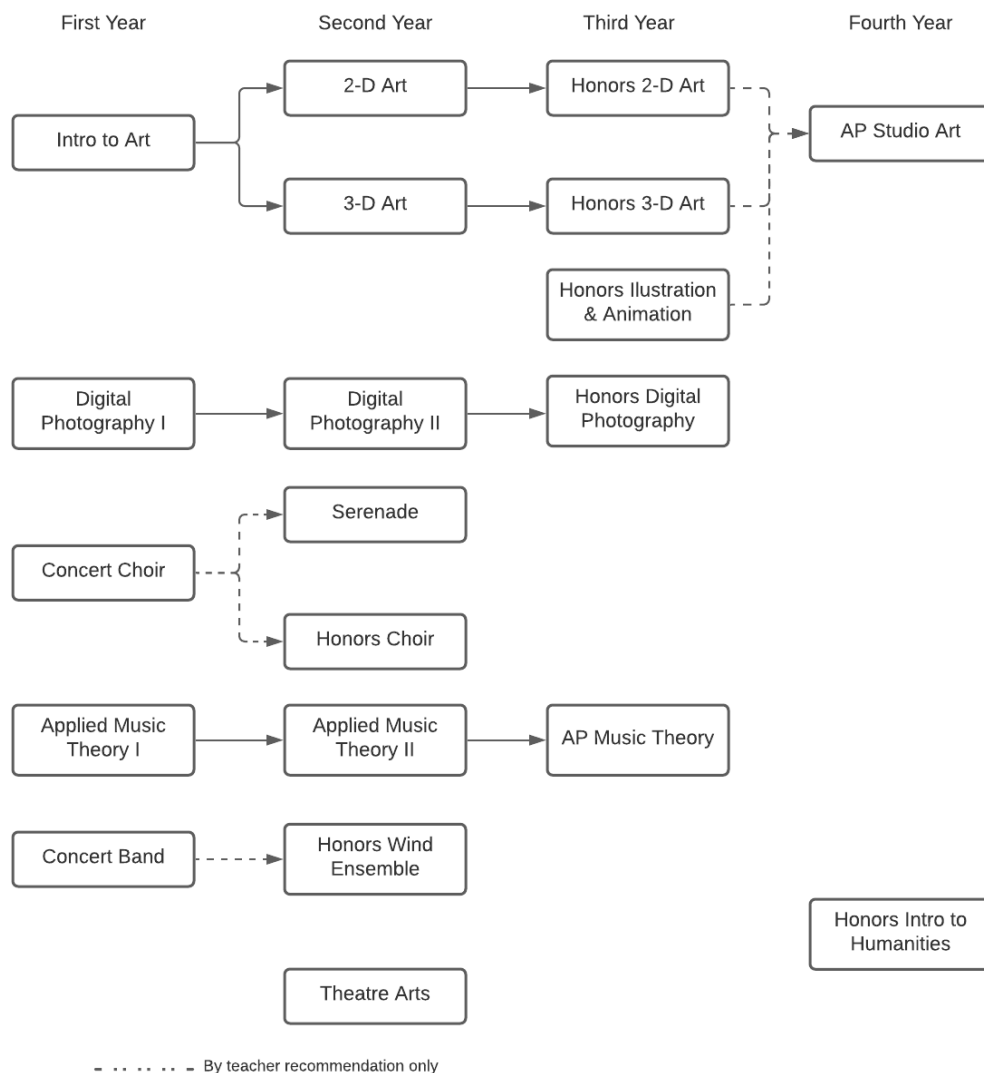
Grades 11, 12

Credits: 2.5 (Semester)

Prerequisite: Teacher recommendation

Visual and Performing Arts

The Visual and Performing Arts Department provides a wide variety of artistic and cultural opportunities. Learning about vocal and instrumental music is enhanced by "hands-on" experiences in many aspects of large and small ensembles. Visiting guests, professional lectures, demonstrations, performances, plus numerous field trips, concert tours and competitions highlight the curriculum instruction. The Visual Arts Department provides a wide variety of artistic, cultural, and creative opportunities. Learning includes "hands-on" experiences, media, aesthetics, history, culture, lectures, and visiting guests. All courses integrate the artistic relationships among self, cultures and the world.



PERFORMING ARTS

CONCERT BAND

This performance course teaches students to play and perform all styles of music. Musicality is encouraged through focus on balance, quality and style. All members of the band will perform in two concerts, at least one adjudicated band festival, and a performance at graduation. Each band member will also have one lesson per week. Smaller ensembles that are more specialized will also be available for students who are interested.

Grades 9, 10, 11, 12

Prerequisite: Basic music reading skills

Credits: 5

HONORS WIND ENSEMBLE

The Wind Ensemble is the premier instrumental performing arts ensemble consisting of students selected by audition. The Honors Wind Ensemble pursues the highest standards and is dedicated to bringing its audiences the finest artistic repertoire from all musical periods, cultures and styles. A high level of musicianship is demanded from every member of the ensemble. Students are required to attend two after-school rehearsals and two evening concerts as well as many community performances.

Grades 10, 11, 12

Credits: 5

Prerequisites: Teacher recommendation and audition

SERENADE

Students must complete an audition to be accepted to this ensemble. Students will perform music at an advanced level which includes SSAA and SSA. Students will begin to develop the solo voice, and will also be members of the concert choir. Students have the option to audition to participate in Touring Choir. All members of Serenade are required to attend two after-school rehearsals and two evening concerts.

Grades 10, 11, 12

Credits: 5

Prerequisites: Concert Choir and teacher recommendation

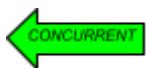
CONCERT CHOIR

Voice part, pitch control and vocal quality of each student are determined. It is not necessary to be able to read music to take this course. Students have the option to audition to participate in Touring Choir. Students are required to attend two after-school rehearsals and two evening concerts.

Grades 9, 10, 11, 12

Credits: 5

HONORS CHOIR



Students must complete an audition to be accepted to this ensemble. Students will perform music at an advanced level and are expected to develop the solo voice and be able to perform music in four to eight part harmony. Students have the option to audition to participate in Touring Choir. Students are required to attend two after-school rehearsals and two evening concerts as well as many community performances.

Grades 10, 11, 12

Credits: 5

Prerequisite: Audition required

APPLIED MUSIC THEORY I

This course is open to all students and is designed to present music through each of its elements: melody, rhythm, and harmony. The use of sight singing, solfege, rhythmic/melodic dictation, arranging and writing music, along with many other basic musical elements, will be studied.

Grades 9, 10, 11, 12

Credits: 5

APPLIED MUSIC THEORY II

This course is a continuation of all skills developed in Applied Music Theory I.

Grades 10, 11, 12

Credits: 5

Prerequisite: Applied Music Theory I

ADVANCED PLACEMENT MUSIC THEORY

The course continues the content in Applied Music Theory II on an advanced level. Students are exposed to more analysis in song form, sonata form, and symphonic structure. The history of music will also be discussed during the year. Greater emphasis will be given to music composition.

Grades 11, 12

Credits: 5

Prerequisites: Applied Music Theory I and II

THEATRE ARTS

This course is designed to develop an understanding of the role of theatre in society. Students will acquire the basic skills needed to prepare them for the pursuit of theatre at the community theatre or college/university level. Study will include theatre history, acting, stage direction, technical theatre, playwriting, film acting, stage management and production. Theatre Arts is a writing and performance intensive course. Students will be required to memorize lines and perform in class.

Grades 10, 11, 12

Credits: 5

VISUAL ARTS

INTRODUCTION TO ART

This foundational course is an exploration and discovery of creativity and understanding the connection between art and the world, and self. Through experimentation and application of the elements of art and principles of design, students will discover the possibilities of various media such as ceramics, sculpture, painting, and drawing.

Grades 9, 10, 11, 12

Credits: 5

DIGITAL PHOTOGRAPHY I

This course integrates the world of technology and fine arts by means of the digital camera. This course will not only focus on training students to compose and isolate well-balanced compositions, but also to master the science behind photo taking. Students will utilize a computer lab outfitted with the ADOBE SUITE, specifically Adobe Lightroom CC.

Grades 9, 10, 11, 12

Credits: 5

DIGITAL PHOTOGRAPHY II

The purpose of the course is to further explore the integration of technology and fine arts by means of advanced techniques of photography. Students will be challenged to further explore light, subject and composition, and to explore contemporary themes and social issues by means of photojournalism. Students will utilize a computer lab outfitted with the ADOBE SUITE, specifically Adobe Lightroom CC. Students will also explore themes and trends found in traditional film photography and in the work of prominent 20th century contemporary photographers.

Grades 10, 11, 12

Credits: 5

Prerequisite: Digital Photography I

HONORS DIGITAL PHOTOGRAPHY

This course is designed to allow serious photography students to further sharpen their craft by means of thesis exploration, weekly photo challenges, and portfolio development.

Grade 11, 12

Credits: 5

Prerequisites: Successful completion of Digital Photography II and teacher recommendation

3D ART

This course will further expand student's understanding of fine art and design through the study of 3D design media. The coursework will focus on two distinct areas of 3D design: ceramic and sculpture construction. Students will explore and apply both the aesthetic and functionality of three dimensional art. Additionally, students will identify major artists and art movements that have influenced 3D design as it exists today.

Grades 10, 11, 12

Credits: 5

Prerequisites: Intro to Art

HONORS 3D ART

This course focuses on advanced problems in sculptural processes through creative exploration. This in depth studio experience is designed to hone technical skills in various media. Through this, students are equipped to develop a concentration within a self-directed media. Students must be self-motivated with the ability to organize and direct art production.

Grades 11, 12

Credits: 5

Prerequisites: 3D Art

2D ART

Students will implement the concepts and techniques learned in Introduction to Art and apply them to more advanced skills of drawing and painting. A broad exploration of media, style, and subject matter will be explored. Students will improve their work by continuing critiques, and describing, analyzing, interpreting and judging their works based on aesthetic values.

Grades 10, 11, 12

Credits: 5

Prerequisites: Intro to Art

HONORS 2D ART

This class is the first part of a two-part AP Studio Art curriculum. Juniors may choose to work towards the development of a portfolio. Seniors can work to the advanced challenge of a college level course without submitting a portfolio. Representatives from art schools will visit to discuss portfolios, applications, areas of study and career opportunities.

Grades 11, 12

Credits: 5

Prerequisites: 2D Art

HONORS ILLUSTRATION & ANIMATION



Do you find yourself doodling and creating your own characters? If you want to take your imagination to the next level, then this is the course for you! Spend the year developing characters, storyboards, and mastering animation programs. You will learn the basic techniques of illustration, the technology to create short animations, the science of animation, and the history of the moving image in the arts and entertainment industry.

Grades 11, 12

Credits: 5

Prerequisites: Graphic Design I AND/OR Introduction to Art and teacher recommendation

ADVANCED PLACEMENT STUDIO ART

This ap course is a yearlong sustained investigation of a student driven question. Students will utilize the process of observation, practice, exploring and revision. Portfolios, in lieu of a written test, are submitted to the College Board Testing Service for evaluation. Students who elect to take this course are expected to complete two hours of work at home for each hour in class. This is a two part portfolio: 5 quality pieces mailed to the College board and Sustained Investigation of at least 10-12 completed (revised) pieces.

Grade 12

Credits: 5

Prerequisites: Honors 2D Art, Honors 3D Art, Honors Photography

HONORS INTRODUCTION TO HUMANITIES

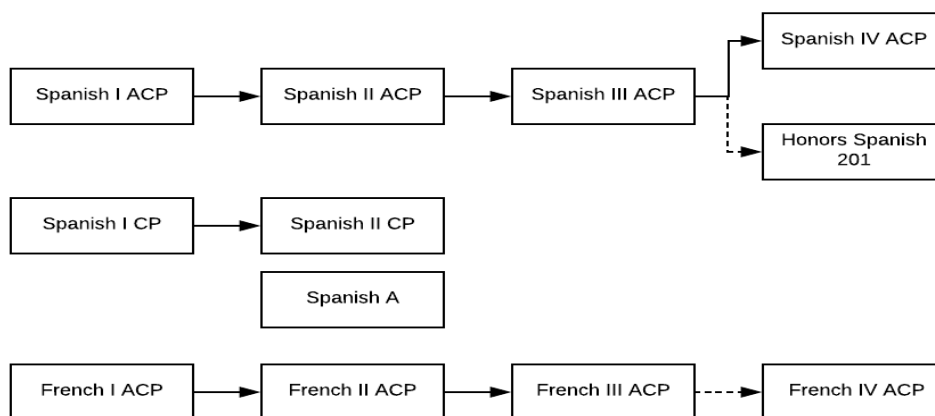
This course is designed to survey the philosophy, art, religion, music, drama, architecture, and dance of the various historical eras of Western, Asian, and African cultures. This is an honors course and is available to seniors who have a strong interest in the arts. Guest speakers, performers, field trips, and hands-on experiences in the arts will highlight and supplement the instruction.

Grade 12

Credits: 5

World Languages

The World Languages Curriculum emphasizes the five C's of language learning: Communication, Cultures, Connections, Comparisons, and Communities. The World Language curriculum follows the ACTFL (American Council of Teachers of Foreign Languages) proficiency guidelines for language acquisition. World Language Honor Societies recognize the achievement by students in all three languages. The department collaboratively celebrates significant cultural events each year in addition to other extracurricular activities offered to our students through membership in language clubs. Skills outlined in the New Jersey Student Learning Standards (NJSLS) are addressed in all courses.



---- Teacher Recommendation Required.

FRENCH I ADVANCED CP

The principal objective of level one French is oral communication. Students will learn and be expected to demonstrate minimal survival communication and courtesy required in everyday situations. Along with functional speaking and listening skills, students will be introduced to reading and writing skills. Students will also be exposed to various aspects of culture, customs and history of a variety of Francophone countries.

Prerequisites: Language Arts teacher recommendation and placement in other Advanced CP level courses

Grades 9, 10, 11, 12

Credits: 5

FRENCH II ADVANCED CP

French II continues to broaden the students' basic vocabulary and expand their skills in speaking, listening, reading and writing. The students will learn more complex language structures and be able to express themselves in various time frames in a more sophisticated manner. Cultural studies promote the expansion of the students' knowledge of geography, history, contributions, and accomplishments of the French speaking countries.

Grades 10, 11, 12

Credits: 5

Prerequisite: Successful completion of French I (Grade of C or better is strongly recommended)

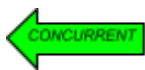
FRENCH III ADVANCED CP

French III will review and expand the reading, writing, conversational concepts and more advanced grammatical concepts acquired in French I and French II. Students will be exposed to and will be able to discuss a variety of material, both edited and authentic. Students will become further acquainted with the French culture with the additional study of the French-speaking world, its history, lifestyle, literature, current events and the arts. Short novels and film will be infused into the course.

Grades 11, 12

Credits: 5

Prerequisite: Successful completion of French II (Grade of C or better is strongly recommended)



FRENCH IV ADVANCED CP

Grammar concepts studied include the recent past, imperfect, future and conditional tenses as well as the subjunctive mood along with the direct and indirect object pronouns. A higher emphasis is given to pronunciation, speaking and writing. By the end of this course, students should be able to carry on a sustained conversation in the target language.

Grade 12

Credits: 5

Prerequisites: Successful completion of French III (Grade of B+ or better is strongly recommended) and teacher recommendation

SPANISH A

This course is designed to enable a student to meet the high school world language graduation requirement. Spanish A will challenge students to use language in meaningful contexts in order to broaden their understanding about themselves and their world. Students will be expected to perform meaningful, purposeful tasks that are tied to real-life language use in Spanish. The emphasis on the interrelationship between language and culture, as well as cultural comparisons of products, practices, and perspectives, is a strong recurring thread throughout the Spanish A curriculum. Students will have the opportunity to explore the customs and traditions of Spain and will gain a working knowledge of the various cultures of Latin America.

Grades 10, 11, 12

Credits: 5

This course fulfills the world language requirement for graduation.

SPANISH I ADVANCED CP

The course focuses on four competence areas of foreign language skills: listening, speaking, reading and writing. There is a strong emphasis on providing context and conversational topics which give the students the opportunity to practice the vocabulary and grammar topics introduced in each unit. Students start to comprehend listening and reading passages and they also start to express themselves more meaningfully in both speaking and writing. The course also gives the students an opportunity to learn more about the cultures and cultural practices of Spanish speaking countries. The course has been aligned to the national standards as set forth by ACTFL (The American Council on the Teaching of Foreign Languages).

Grades 9, 10, 11, 12

Credits: 5

Prerequisites: Language Arts teacher recommendation and placement in other Advanced CP level courses

SPANISH I CP

Spanish I CP will focus on oral communication and the interrelationship between language and culture. The purpose of Spanish I CP is to offer CP level students the opportunity to study two years of a World Language in preparation for attendance at a four year college or university.

Grades 9,10, 11, 12

Credits: 5

Prerequisites: Language Arts teacher recommendation and placement in other CP level courses

SPANISH II ADVANCED CP

Spanish II ACP continues to broaden the students' basic vocabulary and expand their skills in speaking, listening, reading and writing. The students will learn more complex language structures and will be able to express themselves in various time frames in a more sophisticated manner. Cultural studies promote the expansion of the students' knowledge of geography, history, contributions, and accomplishments of the Spanish speaking countries.

Grades 10, 11, 12

Credits: 5

Prerequisite: Successful completion of Spanish I (Grade of C or better is strongly recommended)

SPANISH II CP

Spanish II CP continues to broaden students' oral communication and the interrelationship between language and culture introduced in Spanish I CP. Emphasis is placed on comprehension of Spanish, as well as practicing in the target language using a variety of activities incorporating vocabulary and structures already studied. Supplementary materials are introduced to enhance language use. Aspects of contemporary Spanish culture are introduced through the use of media, games, adapted readings and in small or large group discussions.

Grades 10, 11, 12

Credits: 5

Prerequisites: Grade of C or better in Spanish I CP and Spanish teacher recommendation

SPANISH III ADVANCED CP

The purpose in Spanish III is to increase the students' level of oral proficiency to where they can create with language, participate in progressively more challenging conversations and communicate successfully in basic survival situations. Students will be exposed to and discuss a variety of material, both edited and authentic. Students will become further acquainted with the Hispanic culture through the study of geography, history, lifestyle, literature, and current events.

Grades 10, 11, 12

Credits: 5

Prerequisite: Successful completion of Spanish II (Grade of C or better is strongly recommended)

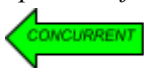
SPANISH IV ADVANCED CP

The emphasis on oral proficiency and the ability to communicate in survival situations continues in Spanish IV. Review and study of grammatical structures continues so that the students can improve their command of spoken and written Spanish. Students will be exposed to Spanish short stories and poems. Their knowledge of Hispanic culture is expanded through the study of literature, history, art, music, and current events.

Grades 11, 12

Credits: 5

Prerequisite: Successful completion of Spanish III (Grade of C or better is strongly recommended)

HONORS SPANISH 201

Spanish 201 is a four-credit Syracuse University course which allows students with skills at the intermediate level to continue their acquisition of the language and to prepare for continuing into advanced university courses. Intermediate-level skills are reinforced by applying them to new contexts, but the focus of the course is the systematic development of advanced-level skills. By the end of the course, students should be able to sustain understanding of main ideas and details over long stretches of connected discourses. They should be able to create with the language - to initiate, sustain and close basic communicative tasks.

Students can be expected to read with increased comprehension connected texts dealing with a variety of factual topics and to write well enough to meet practical needs.

Grade 12

NHS Credits: 5

Prerequisites: Teacher recommendation with a B+ average in Spanish III