

# HILLSBOROUGH HIGH SCHOOL



## PROGRAM OF STUDIES 2019-2020

Success does not come about by chance. It requires effort and making critical choices at key times. Choosing your courses for the next school year is an important part of charting your success in high school and in your post-secondary pursuits. It is important to make selections that prepare you for your goals as you see them today and the goals that might emerge as you mature and gain more life experience. It is important to your own development to choose classes that also bring you joy and help you discover new things about yourself. It is important to challenge yourself but also to do so realistically, because your emotional and mental development is just as important as what you do academically.

As you peruse this Program of Studies, focus on making selections that, first and foremost, satisfy the graduation requirements for the State of New Jersey so that you are primed to earn your high school diploma. Then, choose the courses that align with your goals and engage you in an enjoyable and memorable high school experience. Hillsborough High School offers a wide range of courses in multiple levels that meet the learning needs of a truly talented and diverse student population.

Your counselors will urge you to select alternates in the event that you cannot be scheduled into one of your first choices. Be certain to do that. Although courses are listed in this program, many of them (notably electives) fill to capacity or some of them cannot be offered due to insufficient enrollments. If you select your alternates in advance, your counselor will know which other options you would prefer and can make those adjustments accordingly.

Finally, although extracurricular activities are not a part of the Program of Studies, remember to get actively involved in school. Although you will learn a great deal through academics in high school, you will learn even more about yourself when you interact with your peers, participate in clubs/activities/athletics, collaborate on common goals, and make interpersonal connections that will remain important to you for the rest of your life.

Now, read on and make great choices!

Karen A. Bingert, Principal

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### GRADUATION REQUIREMENTS

In order to graduate from Hillsborough High School, a student must successfully complete the following courses. Students cannot earn credit towards graduation for any course taken prior to September 1 of their ninth grade year.

- |    |  |                |
|----|--|----------------|
| A. | A minimum of 120 credits   |                |
| B. | The minimum course requirements established by the State of New Jersey and the Board of Education, which include:  | <u>Credits</u> |
|    | 1. Four years of CP level English or higher  | 20             |
|    | 2. Two years of U.S. History   | 10             |
|    | 3. One year of World History/Cultures  | 5              |
|    | 4. Three years of Mathematics <sup>1</sup>   | 15             |
|    | 5. Three years of Science <sup>2</sup>   | 15             |
|    | 6. One year of Health & PE per each year of enrollment (includes human sexuality and family life)  | 16-20          |
|    | 7. One year of World Language  | 5              |
|    | 8. One year of a Visual and/or Performing Art  | 5              |
|    | 9. One year of Career Education, Consumer, Family & Life Skills or Vocational-Technical Education  | 5              |
|    | 10. Financial Literacy   | 2.5            |
|    | 11. Technological literacy infused throughout the curriculum   | N/A            |
| C. | Please reference testing requirements at <a href="http://www.state.nj.us/education/assessment/parents/GradReq.pdf">http://www.state.nj.us/education/assessment/parents/GradReq.pdf</a> . |                |

<sup>1</sup>Mathematics must include Algebra I, Geometry and a third year of mathematics that builds on the concepts and skills of algebra and geometry and that prepares students for college and 21st century careers.

<sup>2</sup>At least one year of Science must include content equivalent to Biology, and one additional Science course shall include Chemistry, Environmental Science, or Physics. There is a state science assessment for science.

## GUIDELINES FOR COLLEGE PREPARATION

### A. Academic Units

The academic unit is the term typically used by colleges and universities to express a quantitative evaluation of high school courses acceptable as preparation for college. A full year academic course is evaluated as one unit and a semester course is evaluated as a half unit. Admission requirements by four-year institutions generally require that a student has completed 16 academic units upon graduation from high school. College and universities determine what courses qualify as academic units. Generally speaking, courses in English, Mathematics, Science, World Language and Social Studies are acceptable. Physical Education and many electives are not considered academic units. Any questions regarding whether a course is considered “academic” by a college or university should be directed to the student’s school counselor.

### B. World Language

The required minimum years of study for four-year college applicants is two years of the same language taken during high school, grades 9-12.

## HONORS PROGRAM

The Honors Program has been developed to expand knowledge and awareness beyond the regular College Preparatory program for those who have an aptitude and interest in a specific area. This expansion is qualitative as well as quantitative. Admission is by invitation only and must be renewed yearly. Students may be invited to enter the Honors Program at any level, provided all prerequisites have been met.

The criteria for invitation includes:

1. Potential as indicated by standardized tests.
2. Performance to date
3. Teacher recommendation (Please note that recommendations may be rescinded by the end of the school year if stipulated requirements are not met by the students.)
4. AP Art – Portfolio review
5. Writing sample (English)
6. Testing (History, English)

### For Rising 9th Graders

Students who are not placed into honors may ask for reconsideration towards the end of the year. The parent should first contact the appropriate department supervisor to understand the reasons for denial of honors placement. By the conclusion of the school year, the department supervisor, upon request from the parent or student, will review any new data points for reconsideration into an honors placement. All requests for placement reconsideration must be communicated to the department supervisor by June 9, 2019. If a student receives a low or failing grade for the first marking period in an Honors course, the student may elect to change to a College Prep level course no later than the last day of the first marking period.

## GUIDELINES FOR COURSE SELECTION AND SCHEDULE CHANGES

### Procedure for Registration of Course Selections

For current high school students:

- Review the Program of Studies with your parents.
- Register for a minimum of 30 credits and a maximum of 35.
- Begin with the course selection worksheet located in the back of this booklet.
- Prior to scheduling an appointment with your counselor, enter your course requests through the Parent Portal of Genesis.
- Students will meet individually with counselors to review and finalize course requests.

In view of your progress to date, as well as your testing scores and teacher recommendation, your course selections will be approved or denied. If your selections appear to be in keeping with your goals, ability and performance, your registration will be complete. If, however, your selections appear to be unwise, your counselor will discuss possible alternatives with you.

### Schedule Change Policies

It is critical to make sound decisions early in the course selection process and be aware of policies involved with schedule changes. Student course requests compiled in early spring determine the master schedule for the following year. Minimum and maximum class size will be the determining factor in the consideration of schedule change requests. Requests for schedule changes to alter the sequence of classes will not be considered (i.e. lunch, phys. Ed. and teacher changes).

Schedule changes will be considered under the following conditions:

- Student has been scheduled for an incorrect class.
- Elective(s) changes are possible only if the new elective(s) are offered during the same period.
- Course drop for study hall.
- Course level change.

Schedule Change Deadlines and Grading

Last day to add a full-year course or 1 <sup>st</sup> semester course	The last day of the first full week of school
Last day to add a second semester course	The fifth day of the third marking period
Last day to change course level	The last day of the first marking period

- If any course is dropped within the first 15 days of the school, the course does not appear on the transcript. No grade is recorded for this brief period of instruction. The student will be subsequently enrolled in a study hall.
- If a student changes a level (English H to English CP) within the first 15 days of school, the grade will not follow to the new course, and a record of the former course will not be reflected on the transcript. It may be necessary for the student to complete missed assignments of the new course. Advanced level changes (English I CP to English I Honors) will not be permitted after the first week of school.
- If a student changes a level (English H to English CP) after 15 days of school, the grade will not follow to the new course. However, the transcript will reflect the former course indicating the grade status at the time of the withdrawal with a WP or WF. All course level changes must occur by the last day of the first marking period.

**ATHLETIC PARTICIPATION – ACADEMIC REQUIREMENTS**

The policy of the Board of Education requires all students in grades nine through twelve who wish to participate in interscholastic athletics and/or interscholastic co-curricular activities to meet the minimum credits required per year as stated in the Program of Students – Hillsborough High School. This shall not apply to ninth grade students during their first semester of high school.

To be eligible for athletic participation, a student must pass a minimum of 30 credits each year. Successful achievement (65 or above) in all courses is required to maintain full athletic eligibility. Any student who fails (or is failing at the start of an athletic season) two courses shall be ineligible for athletic participation. A student who fails (or is failing at the start of an athletic season) one course shall be given probationary eligibility, provided the student is passing a minimum of 30 credits.

During the probationary period, a student’s grades in all courses will be monitored every four weeks. If any class average falls below 65 during this probationary period, the student will be removed from the team and declared ineligible for the remainder of the semester. If, at the end of semester, this student fails any course, eligibility will be withheld for the next two semesters. A student may participate on probationary ineligibility a maximum of two times during the high school career.

**HARASSMENT**

It is important that all students feel safe and comfortable when in Hillsborough High School. Insults, harassment of any form, disrespectful behavior from one student to another, or forms of intimidation have no place within our high school or related school events. Words or actions that demean another person because of race, ethnic origin, religion, gender, sexual orientation, economic status or physical condition are unacceptable. If actions of this nature should occur, the victim is encouraged to speak with a teacher, school counselor or vice principal.

**SOMERSET COUNTY VOCATIONAL & TECHNICAL SCHOOL**

Students who are interested in studying particular vocational areas should give serious consideration to attending Somerset County Vocational & Technical School. They may attend a full-time or shared-time program. Students should apply at the end of Grade 8 for entrance in Grade 9 on a full-time basis since upperclassmen are admitted as openings are available. The shared-time program allows a student to take 15 credits of vocational training and four classes at our high school. **However, a student could experience course scheduling difficulties at the high school when enrolled as a shared-time student. It is important to discuss shared-time enrollment with your school counselor.**

Listed below are programs offered at Somerset County Vocational & Technical School. Interested students and their parents should contact the student’s school counselor for further information regarding admission to the vocational school. You may call the Somerset county Vocational & Technical High School at 908-526-8900 X 7243.

Auto Body Auto Mechanics Building Trades CISCO Networking Academy Commercial Art & Design	Electrical Construction Cosmetology Culinary Arts Diesel Mechanics Graphic Communications	Health Occupations Landscape Maintenance/Horticulture Tech Law & Public Safety Office Occupations Performing Arts (Dance/Drama/Acting)	Plumbing Small Engines Welding
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**If you plan on attending Vo-Tech (shared-time), you may have difficulties completing the necessary course requirements for graduating in four years, depending on the Vo-Tech program which you are enrolled. It is extremely important that you contact your high school counselor prior to entering high school in order to map out the courses you will need to take for completing both programs. In many cases, it may be beneficial for a student to complete one school year as a full-time Vo-Tech student or full time Hillsborough High School student.**

Academy for Health and Medical Services – This is a four-year program. Students must apply in 8<sup>th</sup> grade.

The Performing Arts Department

The Performing Arts Department at SCVTHS offers three choices for gifted and talented students. The program encourages growth in individuality and creativity, which helps students become more well-rounded, culturally aware and sensitive to the arts. All students are required to audition for acceptance into the department. The auditions are generally conducted during the month of March. For more information, please call 908-526-8900 X 7277.

## COURSE DESCRIPTIONS

### APPLIED TECHNOLOGY

#### Digital and Graphic Arts I

*Credits: 2.5*

*Course Length: Semester*

*Grade Level: 9-12*

*Prerequisite: None*

Graphic Arts is for the student who wants to learn about digital design, branding, printing and publishing. Major topics include design, layout and composition, screen printing, relief printing, stencil printing, desktop publishing, special effects, and careers in graphic arts and design. The students will use Adobe InDesign and PhotoShop to develop their layouts. Projects included are screen printed t-shirts, notepads, business cards and key chains. This program is highly recommended for students who want to pursue careers in graphic arts.

#### Graphic Arts II

*Credits: 5*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisite: Graphic Arts I*

Students in Graphics Arts II continue the study of printing and publishing. Major areas covered include: desktop publishing, design, composition, copy preparation, digital photography, special effects, color, registration and estimating cost, time and materials. Emphasis is placed on design, copy preparation, and finished product. In addition, students are taught advanced desktop publishing software applications.

#### Graphic Arts III

*Credits: 5*

*Course Length: Year*

*Grade Level: 12*

*Prerequisite: Graphic Arts II*

Graphic Arts III provides an opportunity for students to explore advanced topics in the printing and publishing industry. Major areas covered include: color separation, advanced special effects, graphic design, advanced finishing processes and advanced software application technology.

#### Web Page Design

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

In Webpage Design, students will develop the knowledge and skills to design and create interactive internet websites that exemplify current trends of the industry. Using various software applications and Hypertext Markup Language (HTML), the students will balance their newly acquired technical skills with artistry to create web pages that are conceptually interesting, easily navigable, visually pleasing and functional.

#### Energy & Power Technology

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

In Energy & Power Technology, students will explore various means of energy production. Specific focus is on the internal combustion engine and electrical generation. Lab activities require the disassembly, study, reassembly and operation of the small engine and electric generator. Students will also work with electric motors and mechanisms and apply principles of basic electricity/electronics to create devices that serve practical purposes. Although there are no prerequisites, course activities will support and require an understanding of basic mathematics and physics concepts. This course provides unique opportunity for students with diverse aspirations to study energy production and use through daily hands-on activities and projects.

#### Integrative STEM

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

Science, Technology, Engineering and Math are all integrated tightly into the modern society. In Integrative STEM, students will be focusing on the multiple types of Industry; Transportation, Construction, Manufacturing, Medical technologies, Agriculture, and Biotechnology. By studying these industries, students will learn how the

products and services affect their lives. By following the Engineering Design Process, students will also practice systematic thinking which will provide students with a structured way of generating ideas.

Overall, this course will integrate learning from various curricular areas and students will apply it to solve real world problems.

#### Mechanical Drawing I

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

In Mechanical Drawing I, students will learn to create and interpret engineering drawings. Through use of traditional drafting methods, the students learn the rudiments of mechanical drawing. Later in this semester course, students experience drafting with computer assistance. Projects are designed to provide learning experiences in sketching, geometric construction, orthographic projection and isometric drawing, in addition to other conventional drafting concepts.

#### Mechanical Drawing II

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Mechanical Drawing I*

In Mechanical Drawing II, the students transfer traditional drafting skills (acquired in Mechanical Drawing 1) to drawings produced with a CAD system. As students create computer generated orthographic and isometric images, they learn new skills that are essential in modern day engineering. Projects in Mechanical Drawing II transcend the scope of mechanical engineering to architecture and electronics.

#### Architectural Drawing I

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Mechanical Drawing I and Proficiency in Basic Mathematics*

In Architectural Drawing I, fundamentals of architecture and the communication of structural design are examined and developed. Residential design and construction are studied through a systems approach. Projects include the

production of detailed working drawings for design ideas and, in some cases, scale models will be produced. Students will use traditional drawing tools, as well as computer-aided drafting (CAD) to complete projects.

### **Architectural Drawing II**

*Credits: 5*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisite: Mechanical Drawing I and Architectural Drawing I*

Architectural Drawing II focuses on the principles and graphic communication of architecture, structural systems, and residential construction. With computer-aided design (CAD) as a primary tool, students will study and produce floor plans, roof designs, foundation plans, cabinet construction and elevation drawings.

### **Advanced Study in Drafting**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 12*

*Prerequisite: A final grade average of 85 or better in previous drafting courses; recommendation of the department supervisor and course instructor.*

Advanced Study in Drafting offers experienced drafting students an opportunity to further their experience in mechanical drawing or architectural drafting. Long-term assignments demonstrating mastery of skills and knowledge acquired through prior drafting courses will be developed jointly with the instructor.

### **Wood Technology I**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

In Wood Technology I, the students learn to use hand tools, measuring and layout tools, and they are introduced to machine and portable power tools. Tool/machine safety will be emphasized in the creation of projects. Some of the machines that will be explored are the miter saw, band saw, radial arm saw, surface sander, drill press, scroll saw, router table and jointer. Hand tools such as saws, planes, chisels, marking gauges and rules will be widely used. Popular projects include jewelry or decorative boxes, antique cutlery trays and various other antique reproductions. SAFETY PROCEDURES AND OPERATIONS WILL BE CONSTANTLY STRESSED.

### **Wood Technology II**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Wood Technology I and teacher recommendation*

Wood Technology II is a course that builds on the skills and projects from the Wood Technology I course. Focus will be on mastering the use of machines and hand tools to produce useful projects. Confidence and competence with tools will increase while safety is stressed at all times. Students will turn rough lumber into a finished product (such as a table, jewelry box, cabinet), etc.

### **Wood Technology III**

*Credits: 5*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisite: Wood Technology II and teacher recommendation.*

In Wood Technology III, students will refine their skills and knowledge of woodworking. Different time periods and styles of furniture will be studied and duplicated. Maintenance of machines and hand tools will be taught, and shop safety in the wood shop will be reinforced. Students will also learn about other composite materials, and use a variety of materials in school and community projects. Completion of this course provides students with the ability to tackle most home repair projects.

### **Advanced Study in Wood Technology**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 12*

*Prerequisite: A final grade average of 80 or better in three previous Wood Technology courses, recommendation of the department supervisor and course instructor.*

Advanced Study in Woodworking provides the student an opportunity to engage in self-directed learning through research, planning and creation of projects. The program enables students to participate in complex woodworking activities with the instructor. Project work will be completed in accordance with pre-established specifications and acceptable timelines. Typical areas of study include independent project work, machine maintenance, repairs, and assistance in the classroom.

## **ENGLISH**

### **English I CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9*

*Prerequisite: None*

English I CP focuses on building students' language literacy. The thematic approach of the program incorporates exercises in critical reading, writing, listening and speaking in a variety of contexts. Study units include analysis of the novel and short stories, drama, poetry, non-fiction and mythology. Basics of the writing process are provided and the argumentative research process is taught. Assessment strategies are an integral part of the course. In addition, the course of study includes vocabulary development and grammar/usage instruction.

### **English II CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10*

*Prerequisite: English I CP*

English II CP focuses on the reflection of human nature in literature. The class incorporates level-appropriate exercises in critical reading, writing, speaking, and listening in a variety of contexts. Students will study literary genres including poetry, short fiction, the novel, drama, and informational text. Additionally, students will build knowledge of vocabulary and grammatical structures. Throughout the course, students will explore several writing discourses including argumentation, analysis, research writing, and literary nonfiction.

### **English III CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 11*

*Prerequisite: English II CP*

English III CP focuses on the American tradition in literature from the early 1900s to present time. In addition to addressing issues of social conscience and personal responsibility, English III CP seeks to present an overview of literary movements. The writing units prompt students to express themselves narratively, persuasively, and reflectively in both times and researched writings. Synthesis writing and theme statement writing are another main focus. Vocabulary development and grammar study are an integral part of the course, along with an overview of assessment strategies.

### **English IV CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 12*

*Prerequisite: English III CP*

This course focuses on continuing to develop and expand students' language literacy. Most specifically, it engages seniors to examine the circumstances, questions, problems and dilemmas they encounter in the literary world and face in the real world. Students will build upon skills and experiences in the literacy classroom to develop a mature system of analysis in both literary and psychological landscapes. Additionally, they will research, propose, and defend solutions to problems in society. Students will explore a variety of communication discourses,, such as personal/reflective essay, literary analysis, proposal/research writing, and definitional persuasion. Students will be encouraged to develop personal connections and responses to classical drama, modern fiction, informational texts, poetry, music, and contemporary essays. This course will meet the requirements of the NJ Student Learning Standards.

## HONORS COURSES

### English I H

*Credits: 5*

*Course Length: Year*

*Grade Level: 9*

*Prerequisite: Department Approval. English I Honors is the initial course in an advanced reading, writing, vocabulary, and usage sequence.*

English I Honors immerses students in the sophisticated elements of reading and writing and elicits their responses to the voices of model authors. The course also covers a basic chronology of literature, which offers students the opportunity to explore various stages in the evolution of the English language. Students experiment with personal responses that are expressive, persuasive, creative, and informative. They will work with a variety of themes that provide distinct perspectives toward the process.

### English II H

*Credits: 5*

*Course Length: Year*

*Grade Level: 10*

*Prerequisite: Department Approval*

This second year Honors English course introduces students to Puritan, Romantic, Transcendental, Realistic, Naturalistic, and Modernistic literary schools of thought and seeks to develop in students an appreciation for the American Literary traditions. The reading selections of illustrative novels, short stories, poetry, essays, and drama prompt students to explore the following units: Authority vs. Individualism, Self-Reliance and Achievement, Society in Transition, and twentieth century Issues. This list is not

exhaustive. Students are expected to view the works of these periods as reflective of the social, historical, and literary characteristics of the times. The writing component focuses on discourses of definition,cause/effect, compare/contrast, problem/solution, and persuasion with a disciplined approach to both the writing process and structured writing.

### English III H

*Credits: 5*

*Course Length: Year*

*Grade Level: 11*

*Prerequisite: Department Approval*

Through an intensive study of social, psychological, and cultural issues, students will deepen their ability to read critically and to refine expository writing skills. Required summer readings set the thematic foundation for the year's work. Students read works from classic and contemporary American authors as an extension of their work during the sophomore year. Writing experiences range from composing a social research proposal to a reflective essay. Advanced vocabulary study requires students to expand their strategies through context, connotation, and degree of meaning. The English III Honors student is expected to demonstrate autonomy, initiative, and commitment to serious literary study and composition.

### English IV H

*Credits: 5*

*Course Length: Year*

*Grade Level: 12*

*Prerequisite: Department Approval*

This course offers students a challenging literary survey, examining the satirical to the serious from classical to post-modern works. The thematic focus, "Provocative Voices," encourages students to explore issues confronting mankind through a variety of interesting, thought-provoking literary vehicles, including essays, plays, poems, novels, and criticism. The writing component provides students with a variety of experiences paralleling those they will encounter in college writing courses. Students will be expected to research a topic and write a position paper using research to support a thesis statement. Additionally, students will write shorter papers in various discourses and engage in a debate.

### English IV Concurrent Enrollment

*Credits: 5*

*Course Length: Full Year*

*Grade Level: 12*

Prerequisites: English III CP or Honors & Department Approval; SAT EBRW score of 450+, ACT Reading score 24+, PARCC ELA 11 score of 4+, or Accuplacer WritePlacer College Level English Placement.

This class provides the opportunity to earn six (6) college credits through Raritan Valley Community College while still in high school. Students in this course will follow the college level curriculum of a first year writing course. This course will both satisfy the fourth year English requirement in high school *and* advance the student into a second year level of writing when entering college.

More specifically, this class requires students to develop critical reading and thinking skills and to write thesis-driven, text-based essays. In this course, students will read both non-fiction and fiction pieces of varying length. The course takes a process-oriented approach to writing that incorporates prewriting, drafting, reviewing, and revising. Students in English IV Concurrent learn research skills that will prepare them for college-level research and analysis.

### AP Language and Composition

*Credits: 5*

*Course Length: Year*

*Grade Level: 11*

*Prerequisite: Department Approval and a 90 average in English II H*

Advanced Placement English Language and Composition offers students the opportunity to pursue college level work in exposition and composition. Including considerable summer work, the course has an interdisciplinary focus, drawing on issues in literature, the arts, science, world cultures, government, and philosophy. Students learn from a variety of sources including novels, essays, stories, poems, magazines, newspapers, television programs, and films. Studying advanced writing skills, students will master writing techniques, develop their own style and voice, and prepare for the Advanced Placement Exam.

### AP Literature

*Credits: 5*

*Course Length: Year*

*Grade Level: 12*

*Prerequisite: Department Approval and a 90 average in English III H*

Advanced Placement Literature offers students the opportunity to pursue college level work in literature. Drawing from the curriculum authorized by the College Board, students work in an encompassing program, reading a wide variety of selections and responding in discussion and in written analysis. Students have the opportunity to earn college credit by taking the AP Examination near the conclusion of the course.

## ENGLISH ELECTIVES

### Creative Writing I

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

Through three major units on poetry, short story, and screenplay, students experiment with a variety of reading and writing activities designed to help them develop as imaginative writers. During the course, students develop a poetry portfolio, four types of short stories, and work both with a partner and independently developing a screenplay. Through these projects, students learn to analyze and critique their own writing styles and writing habits, as well as those of other authors.

### Drama

*Credits 2.5*

*Course Length - 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

In this course, students study the history of theatre, fundamentals of play production, basic acting principles, and theatre appreciation and assessment. Students will explore basic set, costume, and lighting design, while also experimenting with various acting techniques.

### Exploring Journalism

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

Exploring Journalism is an exciting opportunity to develop writing skills and experiment with forms of writing and technology. This class prepares students for work on the school newspaper, college level-writing and various careers. Topics include traditional areas of study such as news reporting, investigative journalism, feature writing, opinion writing, as well as arts and entertainment. Newer areas of study may include autobiographical writing, online magazine and blog writing. Students will maintain a writing portfolio

and will have the opportunity to contribute writing to class and school publications.

### Locating Gender in Literature

*Credits: 2.5*

*Course Length: Semester*

*Grade Level: 10 – 12*

*Prerequisite: Successful completion of English I*

This course will explore the pressures on both men and women to comply with traditional ideas of masculinity and femininity through both classic and adolescent literature. Students will examine what it means to “act like a girl/boy” or be labeled with a gender or identity. Applying masculinity theory, feminist theory, and lesbian, gay, bi, transgender, questioning theory to works of literature will facilitate open dialogues about gender identification in our society, thus encouraging greater tolerance of others.

### Philosophy and Popular Culture

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

For thousands of years, humans have been plagued by the same questions about reality and truth: Is there a god? Where do we come from? Do we have free will? Is morality objective or subjective? Is there a best way to live? Philosophy, the study of the natures and fundamental problems of existence and knowledge, fosters conversations about these questions in formal, academic settings and aims to come to understandings about the physical and metaphysical worlds. As part of units of study on god, morality, and free will, students will familiarize themselves with civilization’s foremost philosophical thinkers and academics; craft arguments as part of debates, short responses, and more formal papers; interrogate the extent to which popular culture takes part in and furthers philosophical thought; and most excitingly, engage in conversations that started thousands of years ago. The course should appeal to a variety of thinkers and linguistic, interpersonal, and intrapersonal learners and will consist of both fiction and nonfiction reading.

### Publications

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Any student not currently a staff member of either publication may apply for admission to the course through the publication advisor.*

**Students in Publications: Yearbook and Literary Magazine** learn the basic skills of journalism and demonstrate the mastery and application of these through the production of these two publications. Members of the staff also extend computer expertise and graphic design skills through using state-of-the-art desktop publishing software. In addition, students become adept at small business operations through the sales and marketing of both productions.

**Students in Publications: Journalism and School Newspaper** course will receive intensive instruction covering essential journalism topics and skills in the process of producing monthly issues of the school newspaper in a workshop setting.

### SAT Prep

*Credits: 2.5*

*Course Length: 1 Semester (1 marking period of English, 1 marking period of Math)*

*Grade Level: 10-12*

*Prerequisite: Algebra I and Geometry or equivalent.*

The SAT prep course is one semester. One marking period of the course will be taught by a math teacher and will focus on reinterpreting skills learned in Algebra I, Geometry, and Algebra II through the SAT lens. Students should have a strong mathematics base, and be prepared to tackle more difficult SAT questions using the skill set they already possess. One marking period will be taught by an English teacher and will focus on the reading, writing and essay portion of the test. Students will focus on skill building in vocabulary in context work, vocabulary, punctuation, word choice, grammar and formulaic writing for the essay. This course covers test taking strategies and builds test taking stamina through practice.

### Public Speaking

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

This introductory course is designed to develop students' presentation literacy. Heavy emphasis is placed on developing speeches with profound messages and delivering them with confidence and conviction. The course will provide instruction and practice in speech mechanics, topic selection, and oral interpretation. Students will engage in the following speaking activities: demonstration, informational speaking, declamation, "Talk like TED", and tribute speaking. Students will play an active role in evaluating peers through collaborative rehearsals and feedback sessions.

### **Baseball: The Soul of America**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 10-12*

*Prerequisite: None*

Baseball has been and forever will be linked with America. From racial integration, to the development of its players' union and the "colonization" of Asian and Latino markets, to the increasing reliance on statistical data in the workplace, the history of baseball is interwoven with the history of America itself. The course will utilize both literature and informational texts to open with an introductory unit on the origins of the sport. In this unit, students will learn of the many myths surrounding the development of the sport, why such myths are important, and what the myths add to the creation story behind the sport. Following the unit on the origins of the sport, students will learn how the game spread from America's cities to the rural outposts of America thanks to the outbreak of the Civil War. It will lead up to the game's first great stars, Babe Ruth, and what Ruth meant for America and the idea of American celebrity in the early years of the 20th Century.

## **FAMILY & CONSUMER SCIENCE**

### **Family Living**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 10-12*

*Prerequisite: None*

This course asks students to answer the question, "Who am I?" Discussions center on past, present and future lifestyles within society. Emphasis is placed on self-understanding, interpersonal relationships (dating, love and marriage, pregnancy and children) along with the adjustments and responsibilities of parenting, human sexuality and aging. Role-playing and discussions are an integral part of this class. For example, this class gets "married," "has children" and may "divorce" as part of their study of family living. This course is NOT part of the district Family Life program offered to all students in the health classes; however, some of the course content in this elective course addresses such issues as drugs, relationships, marriage, contraception, families, pregnancy and parenting.

### **Fashion Design**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

In this course, students study fashion history and accessories, marketing,

garment detail and construction. Creative student design is stressed in projects that showcase a growing knowledge of color, composition, draping and fabric selection. Students use computer software to design and create fashion prototypes. This course exposes students to careers in the fashion industry. This class will include use of sewing machines to prepare project work.

### **Advanced Fashion Design**

*Credit: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: Fashion Design*

In this course, subjects covered in Fashion Design are reviewed and enriched through further exploration. This course involves terminology and fundamentals of fashion, design, clothing and marketing. Students study garment detail and construction, textile creation and manufacturing/merchandising of garments. Studio experiences using more complex processes and materials are undertaken. Information learned in this course may lead students to a career in one of many aspects of the fashion industry.

### **Fabric Creations**

*Credit 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

Fabric Creations is a course that introduces students to the textile industry in fashion. In this hands-on class, students will learn about different types of fibers, the creation of fabrics through weaving and dyeing and how to pick the right type of fabric for your design. Information learned in this course may lead students to a career in one of many aspects of the fashion design industry.

### **Interior Design**

*Credit 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

This course enables students to design living spaces. Areas of study include: color; line; pattern; shape; furniture styles; wall, window, and floor coverings. Students gain practical experience in reading floor plans, painting interiors, wallpapering walls, and designing window treatments. Special projects may include floor cloth designs and furniture design. Computer room design may be included.

### **Advanced Interior Design**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: Interior Design*

Subject matter covered in Interior Design is reviewed and enriched through further exploration. This course involves terminology and fundamentals of interior space, room design, construction, and accessories. Students study the integration of line, pattern, shape and color in room and home design; window, wall and floor treatments; designing on a budget and accessorizing a room. Studio experiences using more involved processes and materials are undertaken. Information learned in this course may lead students to a career in one of many aspects of the interior design industry.

### **Intro to Culinary Arts & Baking**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

Intro to Culinary Arts is a single semester course that provides instruction in, and practical application of, food production for students considering a career in the foodservice industry or are interested in expanding their knowledge of cooking at home. The Intro to Culinary Arts course is designed to prepare students for further study and foundational knowledge of the foodservice industry as well as for at home cooking opportunities. A variety of cooking techniques and ingredients will be explored and used for preparation of fruits and vegetables, baked goods, protein foods, and kitchen maintenance.

### **Baking**

*Credits: 2.5*

*Course Length: 1 semester*

*Grade Level: 9-12*

*Prerequisite: Basic Foods/Intro to Culinary Arts*

This course builds upon the experience and skills learned in Basic Foods. Students will learn to make a variety of baked goods such as fancy cookies, pastries, pies, yeast breads, cakes, and candies. Presentation will be a focus as the students design and frost a layer cake individually and practice making and using fondant. Creativity is a must and an appetite for baked goods is helpful.

### **Advanced Baking**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grades: 10 - 12*

*Prerequisites: Basic Foods/Intro to Culinary Arts and Baking, or permission of instructor*

Take your baking skills to the next level! In Advanced Baking students will use the

skills and experience from Baking to create new and innovative baked goods. Students will work with filo dough and freshly prepared puff pastry, decorate tiered cakes, invent new cookies, and experiment with sourdough breads. Products will be evaluated by industry standards, which will assist students in pursuit of a career in the baking field.

### **Culinary Arts**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: Basic Foods/Intro to Culinary Arts*

Culinary Arts is a single semester course that provides instruction in, and practical application of, food production for students considering a career in the foodservice industry or are interested in expanding their knowledge of cooking at home. They will learn why safety and sanitation must be controlled at all times and how to use the equipment in a professional kitchen safely. Knife skills will be further practiced and students will begin to improve their accuracy and speed in producing knife cuts. Students will explore how our senses are used to experience food. A variety of cooking techniques and ingredients will be explored and used for preparation of breakfast foods, soups and appetizers, fruits, vegetables and legumes, as well as sandwiches.

### **Advanced Culinary Arts**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 10-12*

*Prerequisite: Basic Foods/Intro to Culinary Arts and Culinary Arts*

Advanced Culinary Arts is a single semester course that builds upon the skills learned in the Culinary Arts course. Students combine classroom instruction in major culinary topics with professional level laboratory experiences to gain a deep understanding of the food service industry. In this course students will begin by reviewing safety and sanitation and how the HACCP system ensures the safety of the food they serve. They will practice their knife skills to increase their speed and efficiency. Standardized recipes will be explored as well as the many different types of dining experiences available in the foodservice industry. Students will learn about and prepare pasta and grains, stocks and sauces, meats and poultry, fish and shellfish, and a variety of foods from the garde manger station.

### **Nutrition: Healthy Choices**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

Do you want to learn how to take care of your body through understanding and making healthy food choices? This one semester, non-foods-lab class will help to answer, "Why we eat what we eat?" and "How does what we eat affect our bodies?" Whether you are active or sedentary, you need to understand how to make healthy rather than unhealthy food choices to meet your own specific dietary needs and personal activity levels. We will study such topics as: nutrition through the various stages of life (infant through elderly), nutrition training for various activities, human and sports physiology, nutrients (proteins, fats, carbohydrates, vitamins, and minerals), the digestive process, reading and understanding nutrition labels, nutrition and wellness, career options, etc. This is about YOU and YOUR HEALTH for YOUR LIFE! Start now and make a healthy choice.

### **Independent Living**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: None*

Emphasis in this course is on living in today's complex world. Money management, consumer skills, and decision-making are developed and practiced through meal planning; consumer buying practices in clothing, home furnishing, and food; interior design techniques; and clothing and textiles applications. Responsibilities of parenting, human sexuality, and aging are discussed. Course content is applied to the students' present and projected adult lifestyles. (This is NOT part of the district Family Life program offered to all students in the health classes; however, course content in this elective course does address such issues such as drugs, relationships, marriage, contraception, families, pregnancy and parenting.)

### **Pre-School Child/Nursery**

*Credits: 10*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisite: None*

In this full-year, double-block course, students learn the principles of child development and teaching methods in order to work with children in hands-on settings. During the first semester, students student teach in elementary schools and during the second semester students run the preschool program on campus. Students interested in working with children or the field of education are encouraged to take this course.

## **FINANCIAL LITERACY**

### **Financial, Economic, Business and Entrepreneurial Literacy**

*Credits 2.5*

*Course Length: 1 Semester*

*Prerequisite: None*

This class will focus on personal financial literacy and an understanding of foundational concepts in economics. Students will demonstrate an understanding of how the economy works and their own role in the economy. Students will also develop the necessary skills to effectively manage personal finances.

## **FINE ARTS**

### **AP Art History**

*Credits: 5*

*Course Length: Year*

*Prerequisites: Open to sophomores, juniors, and seniors with department approval*

AP Art History is designed to provide the same benefits to secondary school students as those provided by an introductory college course in art history. Students will examine major forms of artistic expression from the ancient world to the present and from a variety of cultures. Students will learn to look and analyze works of art within their historical context, and articulate what they see or experience in meaningful ways by learning to frame an understanding that relates how and why works of art communicate visual meaning. The AP Art History course content and AP Examination reflect these distributors: 40-50% painting and drawing, 25% architecture, 25% sculpture, and 5-10% other media (printmaking, photography, ceramics, fiber arts, etc.). This course will help students apply fundamental art and art historical terminology, interpret art and develop an appreciation for the process of making and displaying art, understand the purpose and function of art. The student will also learn to analyze art in the context of historical evidence and interpret art by examining such issues as politics, religion, patronage, gender and ethnicity, understand the cross-cultural and global nature of art, and develop the ability to perform higher order thinking skills and articulate visual and historical concepts in verbal and written forms.

### **AP Art Studio**

*Credits: 5*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisite: Art II, or Advanced Drawing and Advanced Painting, plus portfolio presentation and teacher recommendation.*

Advanced Placement Art Studio offers students the opportunity to pursue college level work in art. It is intended for the highly motivated student interested in the serious study of art. The AP Art Studio 2-D Design program is a rigorous class in which students must provide clear evidence of concept understanding, visual organization and technical skill. The course work involves significantly more time than the typical high school art course. This course prepares the student for the AP Art Studio Exam.

### **Art I**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: None*

Art I is recommended for students who are interested in exploring a wide range of "hands on" activities. Typical areas of study may include drawing, painting, ceramics, printmaking, sculpture and fiber arts. The instructor will help students not only strive to produce quality finished products but also attempt to inspire diversified, creative thinking. In addition to learning the basic developmental skills and techniques in each area, this course will expose students to the works of famous artists and stress the design principles and elements of good composition. This course will prepare the student for advanced art courses.

### **Art II**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Art I*

In Art II, students continue exploration in the areas of drawing, printmaking, painting, three-dimensional construction, crafts, and art history. Emphasis is placed on color and on more advanced techniques and materials. Students will develop greater observational skills while creating a portrait. Students will also explore abstraction. Typical areas of study may include: drawing and rendering, pen and ink, painting on stretched canvas, advanced printmaking, sculpture, wheel throwing, and jewelry-making.

### **Art III**

*Credits: 5*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisite: Art II*

In Art III, emphasis is placed upon the individual's growth in the ability to observe, to think through problems, and to plan and to carry projects to a

conclusion. Subject matter areas covered in previous grades are reviewed and enriched through further exploration. The development of skills and mastery of one's own style is encouraged as well as the development of individual student portfolios. Typical areas of study might include: drawing, painting, silk-screen printing, sculpture, etching, jewelry, graphic design, and illustration.

### **Cartooning & Animation**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: Drawing or Art I suggested*

This advanced drawing course explores cartooning and animation as an art form and serious career path. It stresses the development of artistic expression and using traditional techniques, as well as digital technology. Drawing and computer skills are expanded upon to exaggerate, distort, and manipulate visual elements. Drama, mood, original characters and situations in single frame and strip cartoons, comic books, flip books, and animation cells are created. Famous cartoonists and works of animation are also studied.

### **Crafts**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

This course is designed to encourage experimentation while developing an appreciation for and understanding of quality craft techniques. Emphasis will be placed on creative design, function of product, personal interpretation, potential of materials, and good craftsmanship. Areas of exploration may include: batik, jewelry making, fiber exploration, ceramics, fabric design and metalwork.

### **Drawing**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

Students are taught strategies and techniques to heighten powers of observation and eye-hand coordination resulting in realistic line, shade, perspective and color drawings. Drawing styles, such as blind and modified contour, are explored using materials such as pencil, conte, pen & ink, pastel, colored pencil and mixed media. To be able to express one's vision and ideas through drawing is one of the most important skills an artist can have. Taking this course first

provides a strong base for taking other departmental selections.

### **Advanced Drawing**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: Drawing*

This advanced level course may be taken multiple times for credit and improvement of skill levels. Subject matter areas covered in Drawing are reviewed and enriched through further exploration. Wider experimental use of the various media will be stressed as a means of furthering individual development in the ability to use pencil, pens, crayons, charcoal, pastels and chalks, transparent and opaque watercolors, and various combinations of media. Portraiture is explored. Studio experiences using more involved processes and materials are undertaken.

### **Graphic Design for the Artist**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: Drawing, Art I or Portfolio Review*

This course explores various phases of a commercial artist's job. By using traditional techniques and digital technology, creative artwork for such things as advertising, printing and promotion is produced. Drawing and computer skills to create high quality, original layouts, illustrations and graphic designs are expanded. Typical areas of study might include: package design, corporate identity, technical and book illustration, and print and media advertising.

### **Painting**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: Drawing or Art I*

Students explore numerous subject possibilities through the excitement of working with color and a variety of paint media. Emphasis is on good composition, paint handling, and color theory. Creative approaches to idea and skill development and composition are stressed. Typical areas of study might include: watercolors, oils, acrylics, tempera, and mixed media.

### **Advanced Painting**

*Credits: 2.5*

*Course Length: 1 semester*

*Grade Level: 9-12*

*Prerequisite: Painting*

This advanced level course may be taken multiple times for credit and improvement of skill levels. This class will build on color and painting techniques

learned in the beginning painting course. In addition to watercolor, acrylic, and mixed media, more sophisticated and complicated techniques are introduced (such as monoprint painting, large and extra-large / life-size canvas painting, mural painting, etc.). The emphasis on personal expression to make a statement is stressed. This course enables students to add advanced color work to their portfolios.

### **Photography**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

This is a course designed to emphasize black and white photography as an art form. It stresses the principles of art and design, the study of famous photographers and their works, and the history of the camera. Working in the photography studio, students are prepared to use 35mm cameras and various darkroom equipment/techniques to prepare photograms, cliché verre, photographic negatives and enlargements. Computer manipulation of visual images is introduced.

### **Advanced Photography**

*Credits: 2.5*

*Course Length: 1 semester*

*Grade Level: 9-12*

*Prerequisite: Photography*

This advanced level course may be taken multiple times for credit and improvement of skill levels. This course is designed to further a student's understanding of photographic design and help promote creative problem solving while exploring applications of black and white photography on an advanced level. Topics covered include commercial, studio, and portrait photography. Students explore abstract photography, research the masters of photography, and practice advanced darkroom techniques such as solarization, toning and printing on a non-papered surface. Montages and photo manipulation are addressed. Digital camera use is introduced and computer manipulated photography is explored. Students are responsible for developing a professional portfolio for college or a possible career in a photography-related field.

### **Digital Photography**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

This course is designed for students to learn basic digital photographic concepts. The student will learn about simple and complex digital cameras. Working extensively with computer photo manipulation programs, students will create and manipulate digital images for their portfolio. Students will learn composition techniques, emphasizing work in the principles and elements of design while creating portraits, landscapes, montages, etc., all done with the computer.

### **Portfolio/Advanced Studio**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 11-12*

*Prerequisite: Permission of instructor.*

Creating a portfolio requires careful planning with an overall strategy. This is an advanced art course for the student who intends to go to a specific art school, take art in college, or make a career in the world of art. Further development of the skills already acquired in other art courses is stressed. Upon entry to the class, the student's existing portfolio of collected artwork is reviewed. Each student is then guided to enhance the portfolio with diverse works to fulfill college and art school requirements. A variety of media, styles, techniques, and subject matter is covered. College and art school selection, portfolio presentation, and the interview process are explored.

### **Sculpture & Ceramics**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

Concentration in this course is on three-dimensional art. Students work on a wide range of sculptural techniques both additive (clay, wire, paper mache, foam board) and subtractive (plaster, wood, stone carving) as well as assemblage (using found objects to create sculpture). This course also provides instruction and experience in the techniques of hand-built and wheel-thrown pottery with decorating and glazing experiments to enhance the finished piece.

### **Advanced Sculpture & Ceramics**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: Sculpture & Ceramics*

This advanced level course may be taken multiple times for credit and improvement of skill levels. This course is the logical continuation on an advanced level of the other Sculpture & Ceramics

course. While materials are similar (clay, plaster, paper, cardboard, mixed media, etc.), the approaches to composition and form are conceptually more sophisticated. The creation of new, more advanced forms (beyond the simple cylinder) will be created on the ceramics wheel. More complicated sculpture techniques will be introduced, such as modeling a life-size human head from clay and creating hand-built teapots and relief wall pieces.

### **Video and Film I**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

This course provides both a practical and theoretical knowledge of video production and film study that can be used as a basis for more advanced work, career preparation, or enhancement of personal skills. Students will learn how to use a prosumer video camera as well as how to script, direct, shoot, light, edit, and produce short video pieces. They will learn a new visual vocabulary through examination and discussion of famous historic and contemporary films. Hands-on production will enable students to transfer learned classroom skills to real-world production opportunities.

### **Advanced Video and Film**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Video and Film I*

This advanced level course may be taken multiple times for credit and improvement of skill levels. Starting from the strong theoretical and practical base begun in Video and Film I, students will further their understandings of video production and film study. Stressing film and video as an art form, students will develop sensitivity to the nuances of movement, further understand light and exposure, and master the basic tenets of good composition in the moving image. The advanced students will continue to use a prosumer camera to script, direct, light, shoot and produce short video pieces. Emphasis will be placed on the non-linear editing of footage from classroom and other shoots. The language of film continues to be a focus as historic and contemporary films are screened and discussed. Credit may be available for this course from Raritan Valley Community College for a fee. If the credit is available, more information will be provided in the spring.

## INDEPENDENT STUDY PROGRAM

The Independent Study Program is designed to provide opportunities for students to extend or explore learning experiences. Students may engage in Independent Study in a variety of ways: Extended or Enriched Independent Study (EIS), which allows a student to investigate an area of interest that is an extension of the current courses offered; Community Service (CS), which consists of voluntary service in a variety of school or community settings; or Career Exploration (CE), which allows the student an opportunity to explore a specific career or occupation in depth through an internship. Independent Study is available to students in Grades 10-12; credits earned apply toward graduation but not toward class rank. The Study cannot be used to fulfill specific course requirements as specified by the Board of Education. **A student doing Independent Study must secure a mentor; submit a proposal, which must be approved by a school committee; and engage in the activities without major assistance from teachers.** In many cases the Study will take place outside the normal hours of the school day. For additional information, students should see their school counselors.

### REACH Senior Option

*Credits: 2.5*

*Course Length: 1 semester*

*Grade Level: 12*

*Prerequisite: Admission by request of student, and recommendation of counselor and REACH coordinator*

The REACH Senior Option provides internships for students interested in exploring careers in helping and public service professions. Applying as juniors for placements in their senior year, students volunteer for 4.5 hours a week for one semester in township and county offices and other professional settings. They submit email summaries of their activities to the internship coordinator at regular intervals, complete a final paper describing how the internship affected their career goals and, with the site-mentor's help, complete a final project that enhances their sites' core missions.

## INFORMATION & COMMUNICATION TECHNOLOGY

### Accounting I

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: None*

Accounting I is designed to develop an understanding of the principles and concepts of accounting using both manual and automated approaches. The objective of this course is to keep complete records for both a proprietorship and partnership. Students are taught the principles of accounting through the entire accounting cycle from analysis to financial statements. Computers are used throughout the course to provide realistic accounting experience.

### Business Organization & Management

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 10-12*

*Prerequisite: None*

This course will provide students with a basic understanding of business administration. Management procedures for different types of business will be studied. Topics to be covered include: basic economic concepts of American business, forms of business organization, internal business organization structures, marketing procedures, advertising functions, financial management, personnel management and labor relations. Students will have an opportunity to explore many career possibilities in various types of business organizations.

### Business Presentations

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

The goal of this class is to develop students as comfortable, confident, effective presenters in business settings. The class will employ a step-by-step and project-based approach to teach students the full capabilities of Microsoft PowerPoint, including: using templates, working with charts and tables, creating handouts, integrating sound, images, video and other media effectively. Students will also learn to use an appropriate framework to develop a presentation and techniques to successfully deliver it. With the help of real-world examples, hands-on techniques, and review questions, the students will be able to clearly communicate their knowledge and ideas for a variety of uses now and in the future.

### Law

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 10-12*

*Prerequisite: None*

The goal for this course is to develop a greater awareness and appreciation of how our laws and legal system impact society now and in the future. The scope of study will include: the development of our laws and structure of our court system, criminal and personal injury law, making ethical decisions, laws currently affecting students, and business law. This will include contracts, setting up a business, owning property, and filing bankruptcy. Students will gain and display knowledge through classroom and small group discussions, case studies, guest speakers, written exercises, and participation in mock trials.

### Marketing

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

The goal for the course is to develop a greater awareness and appreciation of marketing and its impact in business and society, as well as provide a foundation for those majoring in marketing or business. The scope of study will include basic marketing concepts, marketing strategy and planning, Social Media and E-Commerce, and the four P's of Marketing (Product, Price, Promotion and Place). Students will gain and display knowledge through classroom and small group discussions, case studies, guest speakers, problems and written exercises, and the creation and strategic execution of a product and marketing plan.

### Personal Keyboarding

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

Personal Keyboarding is a "hands-on" course using correct computer keyboarding techniques. It provides students with an introduction to the mechanics of computer operation and the use of word processing software. The ability to input, format, edit, store, retrieve and print documents will be emphasized. In the use of word processing, students will produce letters, reports, tables and other materials necessary for personal and business use.

## MATHEMATICS

College Preparatory Courses College Preparatory Courses are designed to provide students with the knowledge and skills they need to succeed in college and

careers as well as to be prepared to compete in a global marketplace.

### **Algebra I CP**

*Credits: 5 (10\* credits)*

*Course Length: Year*

*Grade Level: 9*

This course is the first in the sequence of high school math classes. Students are introduced to the symbols, language, and concepts which form the basic foundation for later studies in both math and science. Major topics include: techniques for solving first and second degree equations in a single variable, solving linear equations and inequalities in two variables by graphing, solving systems of linear equations, functions, and operations on polynomials, rational expressions and radical expressions. Some students will be selected to take a ten-credit double period of Algebra I. ***This course must be taken for the first time during the regular school year in a Hillsborough Township Public School.*** \*A double-period of Algebra I will be scheduled for select incoming ninth grade students who are identified as at risk for not being College and Career Ready in mathematics. Students identified for a double-period of Algebra I will be required to take the double period; parents may not opt their children out of the course.

### **Geometry CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-10*

*Prerequisite: Algebra I*

This course provides the student with the opportunity to develop the two modes of thought: inductive and deductive reasoning. The student studies the roles of definitions, axioms, and theorems in developing a deductive system often by writing proofs. Topics studied via this approach include: concepts of distance, perpendicularity and parallelism, congruence and similarity, circles, areas and volumes of figures in two and three dimensions. The techniques of algebra are employed throughout the course. ***This course must be taken for the first time during the regular school year in a Hillsborough Township Public School.***

### **Algebra II CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-11*

*Prerequisite: Geometry*

In this second year of algebra, the student extends the skills and concepts started in Algebra I but at a higher level of difficulty. Major topics included in the course are: the field properties of the real numbers; techniques of solving first and second degree equations and inequalities in one

and two variables; techniques of simplifying and operating on polynomial, rational, and irrational expressions; linear and quadratic relations and functions; complex numbers; exponential functions; and logarithms; polynomial and radical equations; and introduction to trigonometry. ***This course must be taken for the first time during the regular school year in a Hillsborough Township Public School.***

### **Selected Topics in College Math**

*Credits: 5*

*Course Length: Year*

*Grade Level: 12*

*Prerequisite: Algebra II*

The primary focus of this course is to strengthen and reinforce the student's skills in algebra and geometry through the use of scientific and graphing calculators. This course offers many opportunities to practice these skills along with practice on SAT types of questions. Topics such as set theory, logic, and probability theory will be explored in depth. Many applications to "real-life" situations are also considered, including consumer mathematics. The course prepares the student for college courses in mathematics for other than mathematics, science or engineering majors.

### **Statistics CP**

*Credits: 2.5*

*Course Length: 1 semester*

*Grade Level: 12*

*Prerequisite: Algebra II*

This course is an introductory, non-calculus based study of statistics for seniors only. Students are introduced to major concepts and tools for collecting, analyzing, and drawing conclusions from data. Graphing calculators are not required but highly recommended.

### **Discrete Math CP**

*Credits: 2.5*

*Course Length: 1 semester*

*Grade Level: 12*

*Prerequisite: Algebra II*

This semester course for seniors only studies topics that many students have minimally studied in the past. Students will study the following problem solving strategies: election theory, networking, logic, probability, and mathematical induction. Graphing calculators are highly recommended but not required.

### **Algebra III and Trigonometry CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisite: Algebra II*

The objective of this course is to strengthen the student's algebra skills and then give a detailed introduction to

trigonometry with the goal of preparation for Math Analysis. This course includes a review of fundamental concepts of algebra, including real numbers, exponents and radicals, algebraic expressions, fractional expressions, factoring polynomials, complex numbers, and solving systems of equations and inequalities. Particular attention will be given to the concept of a function, including general properties, notation, graphing, transformation, and inverses. Students will also revisit and expand on their understanding of linear, polynomial, exponential, and logarithmic functions. The course will also include an introduction to trigonometric functions and their inverses. If time permits, students will also learn about sequences and series. This course builds an understanding of "real-world" problems, establishing a firm foundation for future work in mathematics and its applications.

### **Math Analysis CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Algebra II*

This challenging course provides a sound transition to college-level mathematics. The major topics studied include the elementary functions, which consist of: polynomial, trigonometric, exponential and logarithmic functions. Students also learn how to transform these functions. Sequences, series, conic sections, limits and an introduction to calculus are also studied.

### **Calculus CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisite: Math Analysis*

This course is intended for those students who accelerated their math studies in the previous three years and who are ready to begin the study of calculus. It is especially valuable to students who plan to major in business, engineering, mathematics or in the social and life sciences in college. Major emphasis is given to derivatives; curve sketching, exponential and logarithmic functions, integration, trigonometric functions, and differential equations. Extensive applications to biology, medicine, business economics, ecology, social sciences, and physical sciences occur throughout the course.

### **Honors Courses & Advanced Placement**

Admission to these courses requires departmental approval in advance. These courses are designed to challenge students to the limits of their abilities. In addition to possessing an appropriate mathematical background and

demonstrating a consistently solid work ethic, students must possess innate mathematical curiosity while combining multiple mathematics concepts to solve non-routine problems.

### Geometry H

Credits: 5

Course Length: Year

Grade Level: 9-10

Prerequisite: Algebra I and Department approval

This course provides the student with the opportunity to develop the two modes of thought: inductive and deductive reasoning. The student studies the roles of definitions, axioms, and theorems in developing a deductive system often by writing proofs. Topics studied via this approach include: concepts of distance, perpendicularity and parallelism, congruence and similarity, circles, areas and volumes of figures in two and three dimensions, as well as coordinate methods. The techniques of algebra are employed throughout the course. **This course must be taken for the first time during the regular school year in a Hillsborough Township Public School.**

### Algebra II H

Credits: 5

Course Length: Year

Grade Level: 9-11

Prerequisite: Geometry and Department approval

In this second year of algebra, the student extends the skills and concepts started in Algebra I but at a higher level of difficulty and with greater emphasis on derivation and proof. Major topics included in the course are: the field properties of the real numbers; techniques of solving first and second degree equations and inequalities in one and two variables; techniques of simplifying and operating on polynomial, rational, and irrational expressions; linear and quadratic relations and functions; complex numbers; exponential functions; and logarithms. This enriched course includes graphing equations in three variables and determinants. **This course must be taken for the first time during the regular school year in a Hillsborough Township Public School.**

### Math Analysis H

Credits: 5

Course Length: Year

Grade Level: 10-12

Prerequisite: Algebra II and departmental approval

This challenging course provides a sound transition to college-level mathematics. The major topics studied include the elementary functions which consist of: polynomial, trigonometric, exponential and logarithmic functions. Students also learn how to transform these functions. Sequences, series, conic sections, limits and an introduction to calculus are also studied.

### AP Statistics

Credits: 5

Course Length: Year

Grade Level: 11-12

Prerequisite: Math Analysis and departmental approval

The purpose of Advanced Placement Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will be exposed to four broad conceptual themes: exploratory analysis, planning a study, probability, and statistical inference. The AP Statistics course is an excellent option for any student who has successfully completed Math Analysis, regardless of the student's intended college major. Students who successfully complete the course and AP examination may receive college credit and/or advanced placement for an introductory college statistics course. Depending upon the specific college, this course may not satisfy the college's math requirement for admission. Concurrent enrollment is available with Raritan Valley Community College for a fee. Further information will be available later in the Spring.

### AP Calculus (AB)

Credits: 5

Course Length: Year

Grade Level: 11-12

Prerequisite: Math Analysis H and department approval

This course is offered to the student who has had considerable success with previous studies in mathematics and who plans to pursue more advanced work in mathematics, business, engineering, or the physical sciences. Major emphasis is given to the concept of the derivative, the integral, and their applications. Successful completion of this course prepares the student for the Calculus AB Advanced Placement exam.

### AP Calculus (BC)

Credits: 5

Course Length: Year

Grade Level: 11-12

Prerequisite: AP Calculus (AB) and department approval

This course is offered to the student who has successfully completed the AP

Calculus (AB) course. Such a student plans further study in the areas of mathematical sciences, engineering, or physical sciences. The course quickly reviews derivatives, integrals, and their applications. This course also includes topics such as infinite series and differential equations. This course prepares the student for the Calculus BC Advanced Placement Exam.

### Additional Mathematics Courses

#### Applications of Mathematics

Credits: 5

Course Length: Year

Grade Level: 12

Prerequisite: Algebra II, Seniors

This course is designed so students learn mathematics in the context of practical applications organized in the conceptual categories included in the Common Core State Standards: Number and Quantity; Algebra; Functions; Modeling; Geometry; and Statistics and Probability. The course is intended for students who have difficulty with the abstract nature of the traditional approach. Preparation for community college entrance exams (e.g., Raritan Valley Community College ACCUPLACER test) will be included in the curriculum. **This course does not meet the state graduation requirement for a 3rd year of mathematics.**

#### SAT Prep

Credits: 2.5

Course Length: 1 Semester (1 marking period of Math, 1 marking period of English)

Grade Level: 10-11

Prerequisite: Algebra I CP and Geometry CP

This semester course will consist of two nine-week sessions; one focusing on verbal skills, the other on math skills. Students will engage in critical reading and algebraic and geometric problem-solving strategies. Strategies will be applied to SAT test items in order to familiarize students with the test format.

#### Mathematics Targeted Intervention: Educational Proficiency Plan

Credits: 2.5 or 5

Course Length: 1 Semester or 1 Year

Grade Level: 9-12

Prerequisite: Scoring below proficiency on one or more of the state PARCC assessments: PARCC 8, Algebra 1 EOC, Geometry EOC, Algebra 2 EOC

This course is mandatory for students who score below proficiency on one or more of the state mathematics assessments. The course targets the individual needs of students through the use of on-line

evaluation, instruction and practice with teacher support and monitoring. It will improve the understanding of mathematics concepts while supporting the student's progression in mathematics. This course meets state mandates and **no waiver for exemption from the course will be granted if a student is assigned.** Students may be required to take this course more than once during their high school careers.

## Computer Programming Courses

### Computer Programming I

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: Geometry*

This semester course enables students to use the computer in problem-solving tasks. Students learn the Software Development Method of solving problems: planning and designing a solution; translating the design into a structured, organized program; and running and testing the program on a computer system.

### Computer Programming II

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: Satisfactory performance in Computer Programming I and departmental approval.*

This semester course builds on the Software Development method discussed in the Computer Programming I course. Object-oriented programming will be introduced. Students will develop skills to organize and design projects using objects and classes. The course will begin with a tool that helps to introduce the concept of object-oriented programming. Students will: instantiate and use objects, write code and select and use fundamental control structures. Next, students will be introduced to JAVA. They will develop well-structured projects that incorporate selection and repetition structures, primitive data types, and arrays.

### Distributed Applications Development H

*Credits: 5*

*Course Length: Year*

*Grades: 10 – 12*

*Prerequisite: Satisfactory completion of Computer Programming I and Computer Programming II*

This full-year course extends and applies the skills acquired in the Computer Programming 1 and Computer Programming 2 Honors courses within a distributed environment architecture. Topics include Client/Server Architecture; Linux Server Configuration and Administration; Wireless Technology, IPv4

& IPv6, Open Source software, Installation and Configuration of FTP, DNS, SMTP DHCP, and other server services; Database technology via MySQL; Internet vs internet, HTTP, TCP/IP Protocol; Dynamic Web Page development via CGI, PHP, Perl, JavaServerFaces, HTML, XHTML; Overview of Internet Security(Firewalls, Authentication, and Encryption); Ethics in Computing; Phases of Applications Development: Planning, Design and Development, Research and Marketing, Release and Support.

### AP Computer Science

*Credits: 5*

*Course Length: Year*

*Grade Level: 10 - 12*

*Prerequisite: Satisfactory performance in Computer Programming II and department approval*

The AP Computer Science course covers topics that would normally be studied in six semester hours of college-level work. The course is intended for students who might major in computer science or other disciplines that require significant computer use. The course is not a substitute for any college preparatory math course or calculus. Students will program in JAVA with major emphasis on programming methodology, algorithms, data structures and their applications. Students who complete the course will be prepared for the Advanced Placement Computer Science Exam (Level A). After the exam in May, students will be introduced to additional data structures including: stacks, queues, linked lists, and trees.

## MUSIC

### Freshman Band

*Credits: 5*

*Course Length: Year*

*Grade Level: 9*

*Prerequisite: Prior Band Experience*

Freshman Band is an instrumental ensemble emphasizing the performance of wind literature of all genres. It also builds upon middle school experiences, including listening, rhythm, intonation, and tone quality. Students are required to attend rotating sectional lessons during the school day in addition to a daily in-school band rehearsal. Attendance is required at additional evening rehearsals and all performances. At the end of the freshman year, students are eligible for Concert Band, or they may audition for Wind Ensemble.

### Concert Band

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Prior Band Experience*

Concert Band is an instrumental ensemble emphasizing the performance of wind literature of all genres. The selected literature develops students' skills in ensemble performance, including tone quality, intonation, and overall musicianship. Students also refine listening cues and awareness of the history and evolution of instrumental music. Music reading, appreciation, interpretation and solo performance are also incorporated. Students meet for rotating sectional lessons and daily in-school band rehearsal. Participation at additional evening rehearsals/performances is required.

### Wind Ensemble

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Teacher Approval/Audition*

This course emphasizes wind literature of all genres. Musical pieces are chosen to challenge students in all aspects of theory and performance. The focus of this course is the same as that in Concert Band, but with a higher level of musical difficulty. Students are required to attend rehearsals and performances in addition to daily Wind Ensemble rehearsal (in-school) and rotating sectional lessons.

### Orchestra

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: Prior strings experience or teacher approval*

String Orchestra emphasizes the performance of string literature of all genres. Literature is selected to develop the students' skills in ensemble playing, tone quality, intonation, and overall musicianship. Students will also enhance their listening skills, music reading, interpretation and solo performance. An awareness of string music history, appreciation and careers in music are also incorporated throughout the course. Students are required to participate in additional after-school rehearsals and performances.

### Concert Choir

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: Prior choral experience is preferable, but not required*

Through this performance ensemble, students are exposed to a variety of musical styles. Physical foundations of singing, sight-singing and the mechanics of music are emphasized. Introductions to ear training, music history and conducting are also taught. A piano accompanist

(approved by the Choral Director) is also eligible for credit in this course. Students are required to attend additional evening rehearsals and performances

### **Mixed Chorale**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: One year of Concert Choir or teacher approval/audition*

Mixed Chorale is a selective vocal ensemble emphasizing the refined performance of choral literature for Soprano, Alto, Tenor, and Bass (SATB) voices. Musical selections represent the highest quality of classical and jazz compositions. This course further develops the students' choral sound, individual musicianship and awareness of vocal music history. A piano accompanist (approved by the Choral Director) is also eligible for credit in this course. Students are required to attend additional evening rehearsals and performances.

### **Treble Chorale**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: One year of Concert Choir or teacher approval/audition*

Treble Chorale is an audition-based, selective vocal ensemble. Students will study music theory, advanced sight-singing, and perform SSAA (soprano/alto) musical repertoire. This course further develops the students' choral sound, individual musicianship and awareness of vocal music history. A piano accompanist (approved by the Choral Director) is also eligible for credit in this course. All students are required to attend additional evening rehearsals and performances, and must perform in the Winter and Spring Choral Music Concerts.

### **Guitar**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

This course is an introduction to the guitar. Students will develop the skills necessary to perform a variety of musical styles on the classical guitar. Skills in listening and composition will also be developed. An ensemble performance at the end of the course provides a culminating experience. In-class guitars are provided.

### **Advanced Guitar**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: Guitar I plus teacher approval after audition*

This intermediate guitar course is open to students who have successfully completed Guitar I or any student who is otherwise approved by the teacher. Students will advance their skills in classical and acoustic guitar. Emphasis is placed on intermediate individual and ensemble playing, musicianship, technique, and in developing an awareness of the histories of various music styles and genres. Music appreciation, listening skills, and composition skills are also enhanced. Students are expected to attend all practices and performances.

### **Music Technology & Applications**

*Credits: 2.5*

*Course Length: Semester*

*Grade Level: 9-12*

*Prerequisite: None*

This course is for students with little or no experience in playing a musical instrument or reading music. Using MIDI (Musical Instrument Digital Interface) and various computer programs, the students will begin to read music, develop notation skills, and produce musical compositions. Through classroom experiences, students will develop listening and analytical skills, noting contour recognition, intervals, analytic and melodic motives, error detection and chord progressions. While this is an introductory course for most students, the hands-on approach and project-driven nature of this course will give the student a sophisticated insight into digital music as well as a richer understanding of musical elements

### **Advanced Music Technology & Applications**

*Credits 2.5*

*Course Length: Semester*

*Grade Level: 9-12*

*Prerequisite: Music Technology and Applications and teacher approval after audition*

This course is designed for students with a musical background and those who can read music. Students will enhance their musical skills and explore the realm of digital music. Listening and analytical skills will be developed through the use of specially designed software and projects whereby the students create their own music. The students will work in a music production environment utilizing a software-based multi-tracking system MIDI, synthesizers, digital audio and notation software. The students will develop an understanding of the signal process and tools of music production as they incorporate text, sound, graphics and other disciplines into their projects.

### **Music Theory I**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: None*

Music fundamentals with particular emphasis on reading and writing music are the focus of this course. No prior music experience is necessary. Other content areas include: introductions to the mechanics of music (pitch names, meters, and writing skills), history, major and minor key signatures and scales, harmony (intervals, chords, and harmonization), listening, ear training, musical analysis, and composition. It will be expected for all students enrolled in any level of Music Theory to sing not only as a part of small and large groups, but individually as well. Students will be required to take tests comprised solely of singing short melodies on sight (Sight Singing) in addition to listening to short melodies and writing down the correct notes and rhythms that were played (Melodic and Rhythmic Dictation). Students interested in music-related careers are encouraged to enroll in theory classes to prepare for college theory requirements.

### **Music Theory II**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 9-12*

*Prerequisite: Music Theory I or teacher approval after student testing*

This course is designed to meet the needs of students wishing to further their knowledge of music theory. Content areas include: musical analysis, composition, harmonic progressions, form, listening, history, and melodic organization. It will be expected for all students enrolled in any level of Music Theory to sing not only as a part of small and large groups, but individually as well. Students will be required to take tests comprised solely of singing short melodies on sight (Sight Singing) in addition to listening to short melodies and writing down the correct notes and rhythms that were played (Melodic and Rhythmic Dictation). Students interested in music-related careers are encouraged to enroll in theory classes to prepare for college theory requirements.

### **AP Music Theory**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Music Theory I and II or teacher recommendation after student testing*

This course offers students an opportunity to receive college credits by taking a college level music theory and

composition course. The goal is to develop the students' abilities to recognize, understand and describe the materials and processes of music that are heard and presented in score. Aural, analytical, and composition skills are enhanced through written and listening exercises. Building upon this foundation, this course includes more creative tasks, such as the harmonization of melody by selecting appropriate chords in composing a musical bass line to provide two-voice counterpoint, or the realization of figured-bass notation. Students are encouraged to compose original works based on their knowledge of music theory. Students who perform successfully on the Advanced Placement Exam given each May will receive advanced standing and /or credit in a majority of colleges and universities.

## **PHYSICAL EDUCATION & HEALTH**

The 9-12 Comprehensive Health and Physical Education program provides diverse learning opportunities to Hillsborough High School students that cover the 2009 New Jersey Core Curriculum Content Standards for Health and Physical Education. The standards cover wellness, personal and interpersonal skills, drugs and medicines, human relationships and sexuality, motor skill development, and fitness. The program provides both mandatory health and physical education classes for students to develop important lifelong skills and knowledge and elective programs that allow students to explore new activities or participate in sports they love.

Every student must complete a year of Health and Physical Education for every year they are enrolled at Hillsborough High School. Each year students will be scheduled for one marking period of Health or Driver Mathematics Physical Education & Health Education, one marking period of a specific grade level Physical Education course, and two marking periods of elective activities. The list of elective offerings is extensive and constantly being updated and include team sports, fitness activities and individual sports.

## **Health Courses**

### **Health 9 – Interpersonal Skills & Decision-Making and Human Relationships 1**

Through the study of physical, emotional and social growth, the students develop a better understanding of interpersonal skills, decision-making and human sexuality. Topics such as drugs and alcohol, peer pressure, self-understanding, love, dating, anatomy and birth control are discussed to create a stronger, more knowledgeable foundation to aid in rational decision-making and the forming of healthy relationships.

### **Health 10 – Driver Education**

This course teaches the basic fundamental knowledge about safe driving. Emphasis is placed on state laws regulating driving, road courtesy and the development of sound defensive driving techniques. At the end of the course students will take the State of New Jersey Knowledge Test on traffic laws, rules and regulations.

### **Health 11 – CPR & First Aid, Nutrition and Stress, Mental Health & Addiction**

Through the basic principles of First Aid, students learn how to exercise reasonable caution in life's activities, as well as how to help the sick and injured. Every student also learns the proper techniques in administering CPR and practices on a Rescue Anne. Students will also study about nutrition, stress, mental health and addiction. The Stress, Mental Health and Addiction unit focuses on coping with stress, addressing mental health concerns and the prevention and treatment of substance abuse problems. Students will be asked to create policies designed to address these serious societal concerns.

### **Health 12 – Personal Growth & Adult Health and Human Relationships 2**

Students will examine various personality profiles and best determine which category best fits their behavior. They will discuss living independently of their families in situations such as college dorms or their own apartments and developing healthy relationships and family lives. Current topics involving dating, family relationships, trends in social behaviors and health care will also be discussed.

New Jersey Family Life Education Law states, "any pupil, whose parent or guardian presents to the school principal a signed statement that any part of the instruction in family life education is in conflict with his/her conscience, or sincerely held moral or religious beliefs, shall be excused from that portion of the course where such instruction is being given and no penalties as to credit or graduation shall result therefrom." In order for a student to be excused as per

the state law, the parent or guardian must present a written, signed statement to the Health and Physical Education Supervisor explaining how instruction in health, safety, family life education, or sex education is in conflict with the family's conscience or sincerely held moral or religious beliefs. After receipt of this letter, the school may contact the parent or guardian to discuss the concerns or provide clarity on the curriculum. Upon approval the student will be scheduled into a Physical Education activity for the duration of the family life unit.

## **Physical Education Courses**

### **Physical Education 9 – Introduction to Physical Education**

This course will lay the foundations for personal wellness and prepare students for their high school Physical Education experience through three units: Introduction to Fitness, Team Activities, and Dance. Students will be exposed to the basics of personal fitness, be introduced to many of our elective team activities, and learn the basics of dance and other rhythmic activities.

### **Physical Education 10 - Adventure Challenge**

Students will learn the value of teamwork and collaboration while also challenging themselves to go outside their comfort level to climb various obstacles. This will be accomplished as students in the class work together to complete various team-building activities and challenges and climb and navigate our rock wall and high ropes course.

### **Physical Education 11 – Fitness through Global Sports and Non-Traditional Games**

The goal of this course is to expose students to a variety of new global sports and non-traditional games to provide alternative ways for students to stay active.

### **Physical Education 12 – Lifelong Fitness**

In this course, students will explore various lifelong activities such as golf, tennis and dance while continuing to learn and practice personal fitness. At the end of the course, each student will design a personalized, lifelong fitness plan to achieve a specific wellness goal. This will help prepare students to be active throughout their entire lives.

## **Health and PE Electives**

### **Sports Injuries I**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 10-12*

*Prerequisite: None*

In this course, students will be introduced to the field of athletic training and sports medicine. Students will explore basic injury prevention, evaluation and treatment as well as taping procedures used in sports. Major areas of study include anatomy, kinesiology and an in-depth examination of the lower extremities.

### **Sports Injuries II**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 10-12*

*Prerequisite: Sports Injuries I*

In this course, students will expand their study of injury evaluation and rehabilitation techniques used in sports medicine. The anatomy, function and related injuries of the upper extremities, thorax and abdomen, head, neck and spine will be explored. Other areas related to the field of sports medicine will be investigated such as substance abuse, sports psychology, nutritional practices and ethical issues.

## **SCIENCE**

All science courses include regularly scheduled laboratory activities during which the student is required to comply with safety regulations and policies established by the Science Department. All science courses promote a student-centered process approach to learning and doing science. Students are challenged through the completion of experiments, problem-solving strategies and presentations.

### **College Preparatory Courses**

College preparatory courses are designed to challenge students with coursework that will enable them to gain admission to and achieve success in a two-or four-year college program. The courses provide for the learning of appropriate content, concepts, and skills developed through both experimental and theoretical approaches. The courses support students in taking ownership for their learning as the students engage in the three-dimensions of the NGSS. Students must be enrolled in at least the corequisite math course.

### **Environmental Science CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Co-requisite: Algebra I CP*

Environmental science is an interdisciplinary science involving the study of human interactions with the living and nonliving world. It is an interdisciplinary science, meaning it involves many fields of study. Topics include interrelationships and use of the land, air and water, spheres of the Earth, ecosystems, climate, biodiversity, populations, energy resources and human impacts on the environment. The course is a combination of hands-on activities, field experience and computer modeling.

### **Geophysical Science CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

Geophysical Science CP has been developed to provide students with a deep understanding of the Earth and the cosmos. The course begins with astronomy, focusing on the origin of the universe, the life cycle of stars, and motion of orbiting objects in the solar system. This is followed by an investigation of the early formation of the Earth and its continued transformation through the cycling of matter. The course concludes with the interaction of dynamic systems responsible for the continental and oceanic features of Earth. Laboratory investigations are an integral part of the course.

### **Biology CP**

*Credits: 6*

*Course Length: Year*

*Grade Level: 9-12*

*Corequisite: Geometry CP*

This is the field of science in which the student discovers and describes the basic phenomena associated with living things including structure and function, matter and energy transformations, interdependence, heredity and variation, as well as evolution and biodiversity. Regularly scheduled labs seek to establish a deeper and more comprehensive understanding of the topic.

### **Chemistry CP**

*Credits: 6*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Biology CP; Students need to be able to generate proportions and solve algebraic equations proficiently.*

*Corequisite: Algebra II CP*

This phenomena-based course establishes the basic fundamentals of chemistry through both experimental and theoretical processes. Skills are developed using investigation, calculations, and laboratory techniques. These skills are

developed along with concepts of modern atomic theory and practical applications. Emphasis is placed on the development of the ability to think logically and to solve problems.

### **Physics CP**

*Credits: 6*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisite: Chemistry CP*

*Corequisite: Math Analysis CP or Alg.III/Trig CP; Students need to be able to solve algebraic equations proficiently.*

This course presents students with an introduction to a variety of topics in physics, including forces, energy, momentum, electricity, magnetism, and waves. Students will participate in a variety of different activities, such as projects, inquiry-based labs, mathematical problem solving, and scientific argumentation. Upon mastery of the course (per AP Physics I prerequisites), students will have the background necessary for an introductory level college class or AP Physics I.

### **Honors and AP Courses**

Admission to these courses is by recommendation only. These courses are designed to challenge students and to foster student ownership of their learning as the students engage in the three-dimensions of the NGSS. *It is imperative that students demonstrate the capacity to think logically in the abstract and also exhibit the motivation to struggle with the academics to make connections between their learning and their life.* Students are expected to be well above average in mathematics, reading, writing and study skills. Students must be enrolled in at least the corequisite math course.

### **Biology H**

*Credits: 6*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: By recommendation*

*Corequisite: Geometry H*

This rigorous course deals extensively with biochemical, physiological, and evolutionary aspects of the living world. Challenging laboratory work is used to introduce and expand topics and to stress the importance of technique and measurement in science. Students are expected to synthesize information to be able to explain the how and why of scientific phenomena.

### **Chemistry H**

*Credits: 6*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: By recommendation and a course grade of 85 or better in Geometry H or a course grade of 95 or better in Geometry CP.*

*Corequisite: Algebra II H*

This rigorous course uses a conceptual and mathematical approach to the topics and concepts of modern chemistry. Emphasis is on depth of study rather than superficial coverage of many topics. The principles of atomic theory, quantum chemistry, kinetic theory, equilibrium, bonding and stoichiometry will serve as the basic "core" of the course. Students are expected to synthesize information to be able to explain the how and why of scientific phenomena.

### **Environmental Science H**

*Credits: 6*

*Course Length: Year*

*Grade Level: 9-12*

*Corequisite: Geometry CP*

*Prerequisite: By recommendation*

Environmental Science is the interdisciplinary study of human interactions with the living and nonliving world. Topics include the interrelationships and the use of the land, air, and water spheres of the Earth, ecosystems, climate, biodiversity, populations, energy resources, and human impact on the environment. Challenging laboratory work is used to introduce and expand topics and to stress the importance of techniques and accurate measurement in science. An outdoor field experience and independent study project are an integral component of this course. Students are expected to synthesize information to be able to explain the how and why of scientific phenomena.

### **Physics H**

*Credits: 6*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: By recommendation and a course grade of 80 or better in Chemistry H or a course grade of 95 or better in Chemistry CP. Students must have earned a grade of 85 or better in Math Analysis CP.*

*Corequisite: Math Analysis H*

The purpose of this course is to give students a broad and thorough introduction to major areas of physics including mechanics, oscillations/wave motion, electricity and magnetism, optics, and modern physics. Challenging problems are used to develop analytical reasoning and an ability to interpret scientific data. Students are expected to synthesize information to be able to explain the how and why of scientific phenomena. The course will prepare students for future academic work in

physics (Advanced Placement Physics 2 or C/or college physics). The emphasis in this course is on the algebra and trigonometric-based approach to the above-mentioned areas of physics.

### **AP Chemistry**

*Credits: 7*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: By recommendation and a course grade of 85 or better in Chemistry H or 95 or better in Chemistry CP. All prospective students will be required to score a minimum of 80% on the Hillsborough High School Chemistry Honors midterm and final exams or a minimum of 90% on the Hillsborough High School Chemistry CP midterms and final exams.*

*Math requirement: A course grade of 80 or better in Algebra II H or a course grade of 95 or better in Algebra II CP.*

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year and is designed to prepare students for the Advanced Placement Chemistry exam. The course covers such topics as: the structure of matter, kinetic theory of gases, chemical equilibrium, chemical kinetics and the basic principles of thermodynamics. Laboratory work is an important component of this class. This course is designed to be taken only after successful completion of the honors high school chemistry course. Students can expect 5 hours/week of work outside of class. This course has a summer assignment with a test on the summer material on the second day of class. Confirmed placement in the course is contingent upon scoring a minimum of 80% on the summer assignment test which is administered on the second day of class.

### **AP Biology**

*Credits: 7*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisites: By recommendation and a course grade of 85 or better in Biology H AND Chemistry H or a course grade of 95 or better in Biology CP AND Chemistry CP. All prospective students will be required to score a minimum of 80% on the Hillsborough High School Biology Honors AND Chemistry Honors final exams or score a minimum of 90% on the Hillsborough High School Biology CP AND Chemistry CP final exams.*

The AP Biology course is designed to be the equivalent of the general biology course usually taken during the first college year and is designed to prepare students for the Advanced Placement Biology exam. It stresses rigorous analysis

of several major areas of biology as opposed to superficial coverage of many. These areas will include, but are not limited to, physiology, molecular biology, evolution, cytology and genetics. This course has a summer assignment. Confirmed placement in the course is contingent upon scoring a minimum of 80% on the summer assignment test which is administered on the second day of class.

### **AP Physics 1**

*Credits 7*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: By recommendation and a course grade of 95 or better in Physics CP or a course grade of 85 or better in Chemistry H. Students must have earned a grade of 90 or better in Math Analysis CP. All prospective students will be required to score a minimum of a 90% on the Hillsborough High School Physics CP final exam or an 80% on their Hillsborough High School Chemistry Honors final exam.*

*Corequisite: Math Analysis H*

The AP Physics 1 course is equivalent to a first-semester college course in algebra-based physics. Course topics include Newtonian mathematics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound; and an introduction to electric circuits. This course utilizes an inquiry-based instructional approach to develop a deep understanding of foundational physics principles, experimental investigation, abstract reasoning, and problem-solving as it prepares students for the Advanced Placement Physics 1 exam. This course has a summer assignment. Confirmed placement in the course is contingent upon scoring a minimum of 80% on the summer assignment test which is administered during the first week of class.

### **AP Physics 2**

*Credits: 7*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisites: By recommendation. Prior completion of AP Physics 1 or a course grade of 90 or better in Physics H or a course grade of 95 or better in Physics CP. A course grade of 85 or better in Math Analysis H or a grade of 90 or better in Algebra II H or a grade of 95 or better in Math Analysis CP. All prospective students will be required to score a minimum of an 80% on their Hillsborough High School Physics Honors or AP Physics 1 final exam or a 90% on their Hillsborough High School Physics CP final exam.*

The AP Physics 2 course is equivalent to a second-semester college course in

algebra-based physics. Course topics include fluid mechanics, thermodynamics, electricity and magnetism, optics, and atomic and nuclear physics. This course utilizes an inquiry-based instructional approach to develop a deep understanding of foundational physics principles, experimental investigation, abstract reasoning, and problem-solving as it prepares students for the Advanced Placement Physics 2 Exam. This course has a summer assignment. Confirmed placement in the course is contingent upon scoring a minimum of 80% on the summer assignment test which is administered during the first week of class.

### **AP Physics C**

*Credits: 7*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisites: By recommendation and prior completion of AP Physics 1 or AP Physics 2 or a course grade of 90 or better in Physics H. A course grade of 85 or better in Math Analysis H or a grade of 97 or better in Math Analysis CP. All prospective students will be required to score a minimum of an 80% on their Hillsborough High School prerequisite science final exams.*

*Corequisite: Calculus CP or AP Calculus*

The AP Physics C course is a college-level calculus-based physics course designed to further refine the skills of abstract reasoning, creativity, experimental investigation, and problem-solving learned in the first year of physics. This course provides a foundation in topics in physics for students interested in future academic work in science, particularly in the fields of engineering, physics and applied mathematics. The emphasis in this course is on the calculus-based approach to the areas of mechanics, electricity, and magnetism. This course is designed to prepare students for the Advanced Placement Physics C Exam. This course has a summer assignment. Confirmed placement in the course is contingent upon scoring a minimum of 80% on the summer assignment test which is administered during the first week of class.

### **AP Environmental Science**

*Credits: 7*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: A course grade of 80 or better in Environmental Science H and/or Biology H AND Chemistry H and/or Physics H (you need one life science and one physical science course) or a course grade of 95 or better in Environmental Science CP and/or Biology CP AND Chemistry CP and/or Physics CP (you need one life*

*science and one physical science course). All prospective students will be required to score a minimum of an 75% on their Hillsborough High School science Honors final exams or an 85% on their Hillsborough High School science CP final exams.*

The AP Environmental Science course is designed to be the equivalent of a one semester, introductory college course in environmental science. This course provides instruction in Earth systems and resources, the living world, population, land and water use, energy resources and consumption, pollution and global change. This course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world while emphasizing methods for analyzing and interpreting information and experimental data, including mathematical calculations. This course teaches students how to identify and analyze environmental problems, to evaluate the ecological and human health risks associated with these problems, and to critically examine various solutions for resolving or preventing them. This course includes a laboratory and/or field investigation component. This course has a summer assignment. Confirmed placement in the course is contingent upon scoring a minimum of 80% on the summer assignment test which is administered on the second day of class.

## **Additional Science Electives**

### **Anatomy & Physiology CP**

*Credits: 6*

*Course Length: Year*

*Grade Level: 12*

*Prerequisite: Passing grades in both Chemistry and Biology.*

The major focus of this elective course is human anatomy and physiology. Labs will include dissections. Video conferences, presentations and projects are an integral component of this course.

### **Medical Laboratory Techniques CP**

*Credits: 6*

*Course Length: Year*

*Grade Level: 12*

*Prerequisite: Two years of science*

This course prepares the student to learn fundamental science content and practical laboratory techniques. It is especially recommended for the student considering a career in medical technology, pharmaceutical research, allied health fields or in the biological sciences. Areas of study include basic laboratory techniques, forensic science, preparation of solutions, and instruction on the operation of medical laboratory testing

equipment, urinalysis, histology, toxicology, and hematology.

### **Organic Chemistry H**

*Credits 2.5*

*Course Length: Semester*

*Grade Level: 11-12*

*Prerequisites: Chemistry Honors or a course grade of 95 or better in Chemistry CP. All prospective students will be required to score a minimum of 80% on their Hillsborough High School prerequisite Chemistry final exam.*

The course in Organic Chemistry is designed for students interested in continuing their studies in chemistry. Organic Chemistry is an extensive discipline and as such, this course is intended to provide students with a brief survey of some of the topics associated with the chemistry of carbon compounds. Potential topics include structure and bonding, stereochemistry, reactions and mechanisms, and the methods utilized to investigate chemical reactions. Throughout the course, emphasis is placed on proper and safe laboratory techniques, utilizing experimental investigations to foster student development of critical thinking, abstract reasoning, and quantitative problem solving skills.

### **Introduction to Engineering Principles H**

*Credits 2.5*

*Course Length: Semester*

*Grade Level: 12*

*Prerequisites: A physics course. A course grade of 90 or better in Physics CP. A course grade of 85 or better in Math Analysis CP. All prospective students will be required to score a minimum of 75% on their Hillsborough High School prerequisite Physics final exam.*

This elective course will introduce students to the problem-solving principles and protocols involved in engineering. This course utilizes an inquiry-based instructional approach to engage students in the engineering design process to introduce students to the fields of engineering.

### **Astronomy CP**

*Credits: 2.5*

*Course Length: Semester*

*Grade Level: 12*

*Prerequisite: Algebra II CP*

This semester elective will involve students in the study of the following topics: history of the universe, astronomical scale, galaxies, life cycles of stars, cosmology, the United States Space Program, living and working in space, and the potential for extraterrestrials. Current events in astronomy are included in the course as they occur.

## SOCIAL STUDIES

### World History/Cultures CP

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: None*

Students in this course study the historical, political, geographic, and cultural traditions of the world's people. The main courses of study for this class all revolve around the interdependence of all the people of the world. The course begins with the introduction of the Renaissance, Reformation, and Scientific Revolution; moves into the Age of Exploration and subsequent Enlightenment; discusses the Age of Revolutions and the Industrial Age; and ends with Imperialism in the 19th and 20th Centuries. A consistent emphasis is placed on the dignity, value, and contributions of different societies.

### United States History I CP

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: None*

This course is designed as a survey of our nation's early American history. This course examines a chronological survey of the major turning points, issues, people and events in American history addressing the colonial period, events leading up to the American Revolution, the origins of our Constitution, reform movements, Manifest Destiny, the Civil War and Reconstruction, the impact of the frontier and the changing nature of business and government. Students will learn fundamental concepts in geography, economics and civics to get a better understanding of American history. The students will also examine historical documents and materials, utilize primary sources, complete written projects and papers as well as conduct historical research to develop as critical thinkers and become more well-rounded members of the community. This course must be taken for the first time during the regular school year in Hillsborough High School.

### United States History II CP

*Credits: 5*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisite – US I, US I CP, or US I Honors*

This is a full-year course for juniors and seniors who have completed United States History I. This course offers a survey approach to the study of United States History. Some of the topics studied are: foreign policy, war, inflation, cities, capitalism, communism, socialism, ethnic diversity, etc. Emphasis is also placed on

improving the reading, writing, and speaking skills of students.

## Honors and Advanced Placement Social Studies Courses

Honors and Advanced Placement Social Studies class entrance is based on academic excellence and teacher recommendation. Admission to these courses is by department approval only. These courses are designed to challenge top students to the limits of their abilities. It is imperative that the student has the motivation to be competitive in the academic area. Students are expected to be well above average in reading, writing, and study skills.

### World History H

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: Successful completion of testing regimen*

World History Honors is an advanced, freshman-level course designed to provide students with an in-depth narrative of events and movements in World History from the end of the Renaissance to the present. Students will investigate the broad themes of intellectual, cultural and political history and will appreciate how those ideas are reflected in trends of philosophy, popular literature and the arts. Because events in history can only be understood in terms of their social context, this course will examine demographics and the influences of social classes and gender roles on history. The course will also focus on economic history and the role of industrialization by reviewing the development of commercial practices and changing economic structures to recognize multicultural influences on the world, particularly through an examination of imperialism and colonialism.

### United States History I H

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Course grade of 80 or better in World History H or 90 or better in World History CP*

United States History I Honors is a demanding intellectual experience. It gives the students a background in the chronological history of our nation from colonial times to the late nineteenth century. The students interpret major issues of American History, i.e., British colonial policies, American expansionism, and the growth of political parties. As part of the experience, students analyze and

interpret primary sources. They take notes from printed materials and lectures and write essays and analytical papers. This course must be taken for the first time during the regular school year in Hillsborough High School.

### AP United States History

*Credits: 5*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisite: Course grade of 80 or better in US History H or 90 or better in US History I CP*

The AP U.S. History course is a continuation of U.S. History 1 Honors and is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and to weigh the evidence using both primary and secondary sources and interpretations presented in historical scholarship. An AP U.S. History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. Content ranges from the Gilded Age through present times. Students may receive college credit based upon their score on the AP US History Exam taken in May. Summer work is required. Credit may be available for this course from Raritan Valley Community College for a fee.

### AP European History

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisites: For grades 11-12, World History CP or World History H; for grade 10, course grade of 90 or better in World History H and teacher recommendation.*

AP European History focuses on developing students' abilities to think conceptually about European history from approximately 1450 to the present and apply historical thinking skills as they learn about the past. Five themes of equal importance — interaction of Europe and the world, poverty and prosperity, objective knowledge and subjective visions, states and other institutions of power, and individual and society — provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change

over time and make comparisons among various historical developments in different times and places. The course also allows teachers flexibility to teach certain topics of their choice in depth. AP European History is designed to be the equivalent of a two-semester introductory college or university European history course.

### **AP Human Geography**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisites: For grades 11-12, World History CP or World History H; for grade 10, course grade of 90 or better in World History H and teacher recommendation.*

Ever wonder why certain towns have multiples of one store but not another? Curious about how location influences your culture and identity? Intrigued by countries around the world? Check out AP Human Geography! This class will take you on a journey of global understanding through the study of patterns and processes that have shaped human understanding and the Earth.

### **AP World History**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisites: For grades 11-12, World History CP or World History H; for grade 10, course grade of 90 or better in World History H and teacher recommendation.*

The purpose of AP World History is to develop greater understanding of the evolution of global processes and contacts in different types of human societies. The course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge, leading interpretive issues, and skills in analyzing historical evidence. The course offers balanced global coverage, with Africa, the Americas, Asia, Europe, and Oceania all represented. Students are encouraged to take the Advanced Placement examination upon completion of this course. Summer work is required.

### **AP U.S. Government and Politics**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisites: For grades 11-12, none; for grade 10, course grade of 90 or better in World History H, teacher recommendation, and concurrent enrollment in US History I H.*

AP US Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. Students will participate in a variety of activities exercising their civic duty, including but not limited to attending public meetings, working on political campaigns, performing community service, and writing letters to the editor. The course also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will become acquainted with a variety of theoretical perspectives and explanations for various behaviors and outcomes. By completing this course, students will know important facts, concepts, and theories pertaining to U.S. government and politics. They will understand typical patterns of political processes and behavior as well as their consequences (including the components of political behavior, the principles used to explain or justify various government structures and procedures, and the political effects of these structures and procedures). Students will develop skills in interpreting basic data relevant to U.S. government and politics. In addition, students will critically analyze relevant theories and concepts, apply them appropriately, and develop their connections across the curriculum. Summer work is required.

### **AP Psychology**

*Credits: 5*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisite: Grade of 80 or better in most recent required social studies class*

The AP Psychology course is designed to introduce students to the biological basis of human behavior as well as the statistical methods necessary to analyze psychological research. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields of psychology. They also learn about the ethics and methods psychologists use in their science and practice. Summer work is required.

### **AP Microeconomics/AP Macroeconomics**

*Credits: 5*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisites: Algebra II*

The purpose of an AP course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both

consumers and producers., within the economic system. The purpose of an AP course in macroeconomics is to give the students a thorough understanding of the principles of economics that apply to an economic system as a whole. Students are encouraged to take the Advanced Placement examinations in both areas upon completion of this course. Summer work is required. Algebra and basic calculus are used throughout the curriculum. Concurrent enrollment in Algebra III or higher is encouraged. This course meets the requirement for 2.5 credits in financial literacy.

## **Social Studies Electives**

**These courses do not meet U.S. History Graduation Requirements**

### **Community Connections**

*Credits: 2.5*

*Course Length: 1*

*Semester Grade Level: 10-12*

*Prerequisite: None*

The overarching goal of this course is to make a difference by learning about service and engaging in hands-on activities. Students will develop skills by studying and serving the needs of the community in which they live. One part of this course will consist of building relationships with senior residents ("adopting a grandparent"). Students may also engage in other projects such as need identification and community beautification. Students will use disciplinary lenses and techniques of research in the social sciences to meet the course goals. Students will investigate issues facing groups in Hillsborough and other communities with which they identify. As part of their research, they will consider the strengths and weaknesses of policy proposals to address social problems and develop action plans and recommendations for government at all levels.

### **Economics CP**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade level: 11-12*

*Prerequisite: None*

This half year course is designed to expose students to micro- and macro-economic concepts as well as basic financial literacy. The course is divided into two sections; the first half of the semester consists of the microeconomic study while the second half is both macroeconomics and financial literacy. Microeconomics covers

scarcity, price determination, the theory of the firm externalities, and supply and demand. Macroeconomics details public finance, fiscal and monetary policy, inflation, unemployment, and economic growth to round out the semester-long course. While consumer topics are covered during the course, an emphasis is also placed on critical thinking skills, as well as the understanding, application and analysis of those economic concepts. Students will learn to question, evaluate marginal costs and benefits, and explore the various ways in which one action causes secondary actions. This course meets the requirement for 2.5 credits in financial literacy.

#### **Gender Studies CP**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 11-12*

*Prerequisite: None*

This semester course for students in grades 11 and 12 examines the role of gender in people's lives. Students will analyze how attitudes toward gender changed throughout the 20th century and early 21st century. Special attention will be given to the flapper and the suffragette era, the 1950s housewife and family life, and the 1960s and 1970s. Students will also look at how gender issues today impact their lives. Students will discuss topics such as abortion, body image (eating disorders, steroids, and plastic surgery), alternate lifestyles and how the media portrays the different sexes. The final unit will discuss gender throughout the world and discuss topics like honor killings and female genital mutilation.

#### **Genocide and Holocaust CP**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 11-12*

*Prerequisite: None*

This semester course is an examination of hate and prejudice, the history of anti-Semitism, and the Holocaust, and genocide studied through primary and secondary sources, literature and film. This course specifically emphasizes the study of comparative genocides and directly fulfills the state's mandate for genocide and Holocaust education. Students examine the Armenian genocide, Irish famine, genocide in Asia, Bosnia, Rwanda, and Darfur, the genocide of America's indigenous peoples, and slavery. The Holocaust, genocide, and human rights studies' program is especially appropriate for students who are interested in social work, psychology, criminal justice, law, public administration, international policy, sociology/ philosophy, anthropology, and religion.

#### **Government and Politics CP**

*Credits: 2.5*

*Course Length: 1 semester*

*Grade Level: 11-12*

*Prerequisite: None*

This course is designed to provide students with a practical knowledge and understanding of the American government and its direct connection to their lives. Students will be able to apply knowledge of the Constitution and demonstrate their understanding of how the American system of government functions on the local, state and national levels as well as the impact on individual citizens. Students will also be able to demonstrate their understanding that US citizens have both rights and responsibilities in order for our government to maintain order in our society.

#### **Individual & Interpersonal Behavior CP**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 11-12*

*Prerequisite: None*

This course stresses the study of individuals as they react to the pressures of everyday life. Emphasis is placed upon such topics as: learning theory, personality development, relationships, stress, and emotional illness. Students examine these and other similar topics by using various readings and video, research, discussion and debate.

#### **Popular Culture\***

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 11-12*

*Prerequisite: None*

Why do memes go viral? What defines a culture? Find out by taking the History of Popular Culture! This is a semester course that explores the themes, success, failures, and history of Popular Culture during the 20th and 21st centuries. This course will focus on pop culture in the United States starting with the 1920s and 30s and continuing to the present day. Using excerpts from readings, television clips, movie clips, music, radio, art, and news articles, we will learn about the development of popular culture and the impact that popular culture has on individuals living in the United States. By taking this course you will become a more critical consumer of popular culture.  
\*Pending board approval.

#### **Sociology CP**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade level: 11-12*

*Prerequisite: None*

This junior and senior elective course of study is developed around a thematic approach to sociology and social issues. The inquiry approach is used to motivate students to think critically about a wide range of topics that can apply specifically to their lives as well as people throughout the world. The course is divided into five major areas: culture, conformity and deviance, groups and group dynamics (bullying, cliques, and leaders), marriage and family life, and problems resulting from social change in America. Studying sociology enables students to develop a better understanding of the world around them as well as their own behaviors and attitudes. It emphasizes an understanding of their responsibility to their community, nation, and world.

#### **America in the New Millennium CP**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 11-12*

*Prerequisite: None*

This elective, semester course is designed to complement the required United States history course sequence. America in the New Millennium CP consists of seven units beginning with a brief study of current interpretations of the U.S. Constitution as well as contemporary Constitutional controversies and then moves to a 7-week study of the ideas, people, events and technologies that shape the politics, society and economy of 21st Century America. In addition, five two-week units focus more specifically on U.S. citizenship responsibilities, the economy, policy and problems concerning immigration, global competition for energy, and the impact of emerging technologies, especially in communications. Students will practice and learn the curriculum through numerous activities which employ cooperative learning, Howard Gardner's theory of multiple intelligences and differentiated instruction. Assignments that require the higher-order thinking skills from Bloom's Taxonomy will monitor student achievement. Students will analyze and evaluate suggested solutions to the many challenges that face the nation. Students will also be given opportunities to propose alternative solutions.

## **SPECIAL EDUCATION**

### **RESOURCE CENTER**

The Resource Center Program offers a variety of courses for educationally classified students attending classes in the mainstream of the high school. The placement of individual students in the Resource Center is based on a referral

from the Child Study Team. All courses are developed in accordance with the student's Individualized Education Plan (IEP) and class curriculum.

### **Study Skills 9**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9*

*Prerequisite: None*

This full-year course is designed to provide instruction in study skills and support in the areas of academic and personal management skills. Students will explore the strategies and accommodations present in their IEPs to further enhance self-advocacy. Strategies covered include studying, note-taking, test-taking, coping skills and problem-solving techniques. The program also addresses standardized assessments preparation and the development of vocabulary skills. The course stresses the application of study skills / strategies to other academic courses. The progress of students in their academic classes is also monitored.

### **Study Skills 10**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10*

*Prerequisite: None*

This full-year course serves to support and reinforce the skills introduced in the ninth grade study skills class, while continuing to provide monitoring and oversight of a student's academic progress. Students are engaged in working with specific study skills, such as note-taking, test-taking skills, job skills, conflict resolution, and other skills that they can apply directly to their school and work experiences. Additionally, the study skills teacher will provide academic support and will monitor the progress of each student, acting as a liaison between student, parents, and the Child Study Team.

### **Study Skills 11**

*Credits: 5*

*Course Length: Year*

*Grade Level: 11*

*Prerequisite: None*

This full-year course is designed to provide reinforcement in all areas tested on the standardized assessments and support in the areas of academic and personal management skills. During junior year test-taking strategies will be introduced and practiced, along with SAT vocabulary. Test-taking skills, time management, and character education will also be covered. The program stresses the application of study skills / strategies to other academic courses. The progress of students in their academic classes is also monitored.

### **Study Skills 12**

*Credits: 5*

*Course Length: Year*

*Grade Level: 12*

*Prerequisite: None*

This full-year course is designed to provide instruction to support the transitioning senior. This course covers research skills, study skills and strategies for college, basic life skills for the post-secondary student, and essential job skills. Post-secondary options are explored with consideration given to the individual student's aptitudes and interests. The program stresses the application of study skills and strategies to other academic courses. The progress of students in all their courses is monitored.

### **English I**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9*

*Prerequisite: None*

This course serves to provide students with basic writing, reference, and reading skills to aid in the development of functional literacy and cultural awareness. Students will be engaged in the acquisition and exercise of basic grammar, reading, and writing skills necessary for a solid understanding of literature. Writing components will include cause/effect, compare/contrast, and persuasion. Students will also acquire library and research skills. These skills will be applied by various means to encourage students to become more independent readers and writers. Special emphasis will also be placed on the skills needed for success on standardized assessments.

### **English II**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10*

*Prerequisite: English I*

This course provides instruction on building and enhancing English language skills necessary for reading, speaking, listening, and writing. Selected novels, short stories, and plays provide the basis for reading instruction and increasing knowledge of vocabulary. Composition instruction and practice include all phases of the writing process. Additionally, emphasis will continue to be placed on the preparation for the standardized assessments.

### **English III**

*Credits: 5*

*Course Length: Year*

*Grade Level: 11*

*Prerequisite: English II*

This course provides students with vocabulary, reading, writing, and composition skills. The students are exposed to modern and classical

literature, oral presentation skills, and all phases of the writing process. The topics examined by reading selections are related to themes of social conscience, peace advocacy and freedom. Students will also receive a comprehensive review for the standardized assessments.

### **English IV**

*Credits: 5*

*Course Length: Year*

*Grade Level: 12*

*Prerequisite: English III*

This course places emphasis on refining literacy skills and the writing process. The students will read short stories, plays and several novels and apply the basic literary analysis and interpretation to these readings. Major emphasis is placed on essay writing and the exploration of career opportunities.

### **Math Apps.**

*Credits: 5*

*Course Length: Year*

*Grade Level: 12*

*Prerequisite: CST Recommendation*

This course focuses on building math skills and functional competence. Students improve computational skills by applying them to real-life experiences and important everyday situations, such as paying taxes, managing a household, buying and maintaining a car, etc. Calculators and computer simulations are used to provide practice and lesson reinforcement.

### **Algebra I**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: Algebra I*

This course is designed to develop basic algebra skills for students in a small group setting. Students will receive instruction in the rules of arithmetic, systems of linear equations, applications of algebra, exponents and polynomials, factoring, fractions, irrational numbers, radical expression, quadratic equations, percent and problem-solving skills. Students enrolled in Algebra I must take the NJ Algebra I End-of-Course Assessment.

### **Geometry**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: None*

This course is designed to develop basic geometry skills for students in a small group setting. Topics of study include lines, angles, planes, congruent triangles, quadrilaterals, similar polygons, measurement, area, volume, perimeter, and circles. Attention is placed on the development of proofs, postulates and

theorems in preparation for the Grade 11 HSPA.

## **Algebra II**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Algebra I and Geometry*

This course is designed to expand students' algebra knowledge with an emphasis on real world skill application. Students will review and receive instruction in simplifying linear equations and inequalities; solving and graphing quadratic equations; simplifying polynomials and rational expressions; working with powers, roots, radicals and fractional exponents; and solving rational equations with an emphasis on building mastery of new skills with frequent drill and practice.

## **Chemistry**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Environmental Science*

This course establishes the basic fundamentals and functions of Chemistry and Physics through their everyday applications. Students will gain a basic understanding of chemistry and physics using a combination of theory, problem-solving, laboratory techniques, and project completion. Topics such as properties of matter, changes in matter, forms of energy, energy transfer and conservation and forces in motion, consumer chemistry, energy in society, and the interpretation of current scientific events are studied utilizing a variety of hands-on and practical tasks.

## **Biology**

*Credits: 5 (pending BOE Approval)*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: Environmental Science*

This course is designed to provide students with a basic knowledge of biological science. Emphasis will be placed on the body systems, nutrition, plant life, health hazards and treatments. Information and skills are applied to everyday experiences through discussion, hands-on activities and regularly scheduled labs. Students enrolled in Biology must take the NJ Biology Competency Test.

## **Environmental Science**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: None*

This course is designed to explore how the physical and biological worlds are related. Students will learn about pollution,

population, land use, ecosystems, natural resources, energy, changing population and conservation. Instruction includes experiments, projects, and discussion of topics related to the environment in which we live.

## **Geophysical Science**

*Credits 5*

*Course Length: Full Year*

*Grade Level: 9-12*

*Prerequisite: None*

This course is designed to provide students with the knowledge and understanding about relationships between the structure, processes and resources on Earth and in relation to the solar system. Units of study include geology, meteorology, astronomy, as well as the basic concepts of chemistry and physics. Students will have the opportunity to learn through lab investigations, cooperative groups, and inquiry.

## **World History I**

*Credits 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: None*

This course is designed to survey all aspects of the culture, history, traditions, politics and geography of the world and its people. Emphasis is placed on map skills, locating and interpreting information to be able to make informed decisions as an individual in society. Through these activities students will gain a better understanding and appreciation of the many contributions of societies throughout the world. Instruction of reading and writing skills is incorporated into the curriculum.

## **US History I**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: None*

This full-year course is a survey of our nation's history from the colonial period to the twentieth century. Emphasis is placed on mastering basic social studies concepts and having students understand the basic responsibilities of the United States' government and its citizens. Reading, writing, and communication skills instruction is also incorporated throughout the curriculum.

## **US History II**

*Credits: 5*

*Course Length: Year*

*Grade Level: 10-12*

*Prerequisite: US History I*

This course is a survey of United States History from the 1900's to the present. Students explore the rise of the United States of America as a world power while learning geography, cultural literacy, and important events of the twentieth century. Instruction of reading and writing skills is incorporated into the curriculum.

## **Work Readiness/Community Work**

*Credits: 12-15*

*Course Length: Year (Two-Three Periods)*

*Grade Level: 9-12*

*Prerequisite: CST Recommendation*

This course provides students with a full-year of class instruction in generic employability skills. Emphasis is on developing independent living and transition from school to work. Career assessments and the skills needed for decision-making and problem-solving are stressed. Students have the opportunity to work in the community (Community Work, 15 credits) and/or shadow employees in a variety of job sites within the building (Work Readiness, 12 credits). The purpose of these placements is to assess the student's overall acquisition of employment skills and refine those skills as needed.

## **Spanish I**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: None*

This full year course is designed to provide beginning world language learners the basic tools necessary for interpersonal, interpretative and presentational modes of communication emphasized in national and state standards. Instruction is thematic in nature to reinforce use of Spanish for authentic communication of basic facts, needs and emotions. Culture is infused in each thematic unit in recognition of the fact that language and culture are inseparable. Grammar exercises are strengthened through daily drill and practice exercises that include reading, writing and listening skills.

## **Consumer Economics**

*Credits: 2.5*

*Course Length: Semester*

*Grade Level: 9-12*

*Prerequisite: None*

This course is designed to help students develop a practical perspective and understanding of personal financial management, basic economics and entrepreneurial literacy. The program will highlight financial decision making and

their direct applications to everyday work and consumer situations. Students will have the opportunity to think critically, understand the need to make sound financial choices in both personal finance and business and apply them to real life problem solving situations when managing money. This course meets the requirements for 2.5 credits in Financial Literacy for Special Education.

## WORLD LANGUAGES

### **Level One: CP Chinese, French, German, Italian, and Spanish**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: None*

The broad objective of all levels of modern language study is the development of the three modes of communication: interpersonal, interpretive, and presentational. The first level places particular importance on the presentational and interpersonal skills. Students are prepared to understand the spoken word before they attempt to explore spelling and writing skills. The communication skills are shaped to develop a "personal" kind of communication, so that at the end of the first level, students are able to function in everyday situations in the target language. Interpretive skills are developed through reading and listening practice. Students learn to read, almost immediately, what they have learned to say. The interpersonal and presentational skill of writing is somewhat limited in Level I. Grammar is reinforced through structured exercises based on practical situations. Since culture, the sum total of the beliefs and behavior of a people is best reflected by language, a major emphasis is placed on the appropriate use of language in culturally authentic situations. The Level I world language course is geared to satisfy the requirements of the New Jersey Core Curriculum Content Standards. Cross Content Workplace Readiness skills are emphasized throughout the course as well as the career awareness component are emphasized throughout the course.

### **Level Two: CP Chinese, French, German, Italian and Spanish**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: Satisfactory completion of Level One.*

Level Two is a continuation of Level One, building on the basics presented in the first year. There is a slight shift of emphasis from the listening-speaking

aspect of communication to the reading-writing skills; however, all three communication modes continue to be enhanced. Students become much more aware of idiomatic expression, and grammar is covered in more detail in practical situations. The respective country's culture is studied as well as the language to promote interest in and understanding of its inhabitants and satisfaction of the requirements of the world language state standards. Workplace readiness continues to be emphasized as students deepen their skills in this area. The second year satisfies the entrance requirements of many colleges and universities.

### **Level Three: CP Chinese, French, German, Italian and Spanish**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: Satisfactory completion of Level Two.*

Level Three is a continuation of Level Two, completing the study of the finer points of grammar and idiomatic expression. The main objective of the third year courses is to enable students to continue to attain a measurable degree of communicative competency and proficiency in each of the three communication modes: interpersonal, interpretive, and presentational. This is made possible through practical exercises and activities that focus on meaningful, personalized communication. Advanced vocabulary is presented in authentic situational contexts. More advanced grammar concepts are presented to form a coherent, cohesive story. Culturally authentic materials are presented to the students for reinforcement of the communication skills. Short selections in literature are studied to introduce students to literary genres and gems of the past. An emphasis is placed on cultural topics reflecting history, customs, traditions and lifestyles of the people whose language is being studied.

### **Level Four: CP Chinese, French, German, Italian and Spanish**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: Satisfactory completion of Level Three.*

Level Four is a continuation of the first three levels of study. After a comprehensive review of grammar, the subjunctive mode is introduced in culturally authentic situations. Advanced literature is studied and analyzed, with careful attention paid to cultural aspects of the language under study. All three communication skills are enhanced

through constant practice and presentation on the part of the learner. Fluency in speaking and writing are major components in the fourth level of language study. Authentic materials are used to further immerse the student in the culture of the target language.

### **Culture & Society A/B: Chinese, French, German, Italian, and Spanish CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisites: Satisfactory completion of Level IV.*

The Culture & Society A/B Course would provide students who have passed Level IV of the language with an opportunity to extend their learning of the target language in relation to the specific cultural topics relevant to that language. Particular attention would be placed upon literature, modern events, history, customs, etc., and the class would be conducted solely in the target language. Furthermore, this would provide an opportunity for students to expand their language ability and prepare them for colleges/universities, the AP Exam (if they choose to take this course directly after level IV), and/or the STAMP Test for the Seal of Biliteracy.

### **AP French, AP German, AP Italian, AP Spanish, AP Chinese**

*Credits: 5*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisite: Satisfactory completion of Level IV and teacher recommendation*

The senior advanced course has two main objectives. This course prepares the student for all of the major areas of the Advanced Placement language test. The main emphasis, however, is on the refinement of the three communication modes: interpersonal, interpretive and presentational, with a heavy importance placed on the presentational abilities of the student. Advanced Placement courses are presented on a college level of instruction. Students who complete this course should be able to take intermediate and advanced world language courses when they enter college. Many colleges and universities grant college credit for students who attain successful scores on the Advanced Placement test administered in the spring

### **AP Spanish Literature and Culture**

*Credits: 5*

*Course Length: Year*

*Grade Level 11-12*

*Prerequisite: Satisfactory completion of Level IV and teacher recommendation.*

The AP Spanish Literature and Culture course is designed to provide students with a learning experience equivalent to that of an introductory college course in literature written in Spanish. The course introduces students to the formal study of a representative body of texts from Peninsular Spanish, Latin American, and U.S. Hispanic literature. The course provides opportunities for students to demonstrate their proficiency in Spanish across the three modes of communication (interpersonal, interpretive, and presentational) and the five goal areas (communication, cultures, connections, comparisons, and communities) outlined in the Standards for Foreign Language Learning in the 21st Century. The overarching aims of the course are to provide students with ongoing and varied opportunities to further develop their proficiencies across the full range of language skills - with special attention to critical reading and analytical writing — and to encourage them to reflect on the many voices and cultures included in a rich and diverse body of literature written in Spanish. Many colleges and universities grant college credit for students who attain successful scores on the Advanced Placement test administered in the spring.

#### **El Español Para Hispanohablantes I CP (Spanish for Spanish Speakers I)**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: Native speaker of Spanish*

This course is designed for native speakers of Spanish who wish to reinforce their spelling and grammar while engaging in culturally and intellectually stimulating activities. Current events, Hispanic television shows, music, art, literature, customs and traditions will be addressed as students progress through intensive grammar, vocabulary and syntax reinforcement. Students exiting “El Español Para Hispanohablantes I” will have mastered the grammar and vocabulary taught in Spanish I CP and Spanish II CP.

#### **El Español Para Hispanohablantes II CP (Spanish for Spanish Speakers II)**

*Credits: 5*

*Course Length: Year*

*Grade Level: 11-12*

*Prerequisites: Successful completion of El Español Para Hispanohablantes I*

This course is designed for native speakers of Spanish who have successfully completed El Español Para hispanohablantes I. Interpretive, interpersonal and presentational skills will be deepened. As in the first level of this sequence, current events, art, music and literature will be studied with an eye to

individualized correction of student grammatical errors. Students who complete this course will have mastered the vocabulary, grammar, and syntax taught in Spanish III CP and Spanish IV CP. With a recommendation from the teacher, students who successfully complete El Español Para Hispanohablantes II may elect to take AP Spanish the following year.

#### **Latin I CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: None*

Latin I provides the basics of Latin vocabulary, grammar and syntax. There is extensive study of the influence of Latin on the English language, as well as on all of the Romance languages. The exploration of the culture and civilization of Ancient Rome is an integral part of the Latin I course. The study of Latin I is especially beneficial in building students’ English vocabulary skills.

#### **Latin II CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: Satisfactory completion of Level I*

Latin II CP is a continuation of Latin I. All of the vocabulary, grammar and syntax studied in the first year is reviewed and enhanced in the second year. More advanced forms are presented to the students to prepare them to better meet the requirements of the New Jersey Core Curriculum Content Standards. The three modes of communication continue to be stressed, with increasing importance being placed on the presentational skills. Latin II CP satisfies the requirements of many colleges and universities.

#### **Latin III CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: Satisfactory completion of Level II.*

Latin III CP is a continuation of the first two levels of Latin studies. Advanced vocabulary, grammar and syntax are emphasized. The three communication modes are reinforced with an increased emphasis on the interpretive skills in reading masterpieces of Latin literature. Presentational skills are enhanced by original writings in Latin on the part of the students. Latin III CP satisfies the entrance requirements of more demanding colleges and universities.

#### **Latin IV CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: Satisfactory completion of level III.*

Latin IV CP is a continuation of the first three levels of Latin studies. Advanced vocabulary, grammar, and syntax are emphasized. Poetry by Ovid, Horace, and Martial, as well as historical writings by Roman emperors, Roman citizens and observers of Roman life are read, analyzed, and compared to present day politics, daily living, and world events and their impacts.

#### **ESL (English as a Second Language)**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: None*

The ESL courses offered are designed for students with limited English proficiency. Eligibility and placement in the appropriate course(s) are assigned through a state mandated screening assessment. Small group and individualized instruction are provided whenever circumstances allow in order for students to improve English language proficiency in all linguistic domains while following a logical progression for second language acquisition.

#### **Transitional English**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: None*

This course is designed for students who have successfully met or are close to meeting their ESL program basic proficiencies yet have significant gaps that affect both their reading and writing skills. The course will provide an opportunity for students to expand English vocabulary, to improve English syntax, and to increase their knowledge of English idioms through a variety of reading selections.

#### **American Sign Language I CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: None*

ASL I is designed to provide students with an introduction to American Sign Language. In ASL I, students will study basic hand shapes, body movements and facial expressions to convey thoughts to other ASL literate individuals. This course focuses on the development of basic vocabulary, structures, and patterns needed for appropriate concept communication through sign language. Along with the linguistic introduction of American Sign Language, the cultural awareness of the Deaf community will be studied on a daily basis.

### **American Sign Language II CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: Satisfactory completion of ASL I*

ASL II is designed as a continuation of American Sign Language I. In ASL II, vocabulary and key concepts from the first year will be enhanced and students will continue to study and develop skills related to sentence structure, grammatical rules, and vocabulary. The areas of focus include vocabulary development, sentence structure, sign choice, numbers, phonology, morphology, the use of space, adjectives, nouns, pronouns, non-manual cues, and storytelling. Students will work within the three modes of the language: interpretive, interpersonal, and presentational. Along with the linguistic features of American Sign Language, this course will provide students with a deeper understanding of the history of the Deaf Community while increasing cultural awareness.

### **American Sign Language III CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: Satisfactory completion of ASL II.*

ASL III is a continuation of Level Two, completing the study of the finer points of grammar and idiomatic expression. The main objective of the third year course is to enable students to continue to attain a measurable degree of communicative competency and proficiency in each of the three communication modes:

interpersonal, interpretive, and presentational. This is made possible through practical exercises and activities that focus on meaningful, personalized communication. Advanced vocabulary is presented in authentic situational contexts. More advanced grammar concepts are presented to form a coherent, cohesive story. Culturally authentic materials are presented to the students for reinforcement of the communication skills.

### **American Sign Language IV CP**

*Credits: 5*

*Course Length: Year*

*Grade Level: 9-12*

*Prerequisite: Successful completion of ASL III*

ASL IV is a continuation of Level Three, completing the study of the finer points of grammar and idiomatic expression. The main objective of the fourth year course is to enable students to continue to attain a measurable degree of communicative competency and proficiency in each of the three communication modes: interpersonal, interpretive, and presentational. This is made possible through practical exercises and activities that focus on meaningful, personalized communication. Advanced vocabulary is presented in authentic situational contexts. More advanced grammar concepts are presented to form a coherent, cohesive story. Culturally authentic materials are presented to the students for reinforcement of the communication skills.

## **MISCELLANEOUS ELECTIVES**

### **Library Service**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 11-12*

*Prerequisite: Written approval of librarian.*

This semester course is designed to provide a student with the basic skills of library service: circulation, organization and technical services. The instruction provided by the librarian includes in-depth experience with electronic databases and the use of library technology. Students need to have demonstrated good attendance, be generally conscientious, socially adept and able to think on their feet in order to deal with the responsibilities of the course. Students will successfully complete classwork, quizzes and a short reading response essay.

### **Technology Education Community**

#### **Helpdesk**

*Credits: 2.5*

*Course Length: 1 Semester*

*Grade Level: 10-12*

*Prerequisite: None*

This semester-long course is designed to provide students with a hands-on study of technology, digital citizenship and helpdesk support in the high school. As effective managers of the Tech Hub helpdesk, students will troubleshoot problems throughout the day and come up with solutions using computational thinking and design. Throughout this course, students will build a professional portfolio that showcases their original work and highlights their understanding of core concepts of technology and its impact on global society.

## ELECTIVE GRADUATION REQUIREMENTS

These courses meet the Career Education, Consumer, Family & Life Skills, or Vocational-Technical Requirement:		These courses meet the Visual and Performing Arts requirements:	
Accounting I Advanced Baking Advanced Culinary Arts Advanced Fashion Design Advanced Interior Design Architectural Drawing I, II Baking Business Org/Management Business Presentations Culinary Arts Energy and Power Technology Fabric Creations	Family Living Fashion Design Financial Literacy* Graphic Arts I, II, III Independent Living Interior Design Integrative STEM Intro to Culinary Arts & Baking Law Marketing Mechanical Drawing I, II Nutrition: Healthy Choices Personal Keyboarding Pre-School Child/Nursery (2 Pds) Web Page Design Wood Technology I, II, III	Advanced Drawing Advanced Guitar Advanced Music Tech and App Advanced Painting Advanced Photography Advanced Printmaking Advanced Sculpture & Ceramics Advanced Video & Film AP Art History AP Art Studio AP Music Theory Art I, II, III Cartooning and Animation Concert Band Concert Choir Crafts Digital Photography Drama	Drawing Freshman Band Graphic Design for the Artist Guitar Mixed Chorale Music Tech and Apps Music Theory I, II Orchestra Painting Photography Portfolio/Advanced Studio Printmaking Public Speaking Sculpture & Ceramics Video & Film Wind Ensemble Women's Chorale

## FINANCIAL LITERACY REQUIREMENT

<b>These courses meet the financial literacy requirement for graduation:</b>
Financial Literacy* AP Macroeconomics/AP Microeconomics Economics CP Consumer Economics

\*Financial Literacy can fulfill **either** the Financial Literacy requirement **or** the Career Education requirement but not both.

## FRESHMEN ELECTIVES LIST

<u><b>Academic &amp; Other Electives</b></u>	<u><b>Career Education, Consumer, Family &amp; Life Skills</b></u>	<u><b>Electives with Mandatory Prior Class (Prerequisite in Parentheses)</b></u>
Financial Literacy Creative Writing Philosophy and Pop Culture Exploring Journalism  <u><b>Visual &amp; Performing Arts</b></u> Art I Cartooning & Animation Concert Choir Crafts Digital Photography Drama Drawing Freshmen Band Guitar Music Technology & Applications Music Theory I Orchestra Photography Public Speaking Sculpture & Ceramics Video & Film	Business Presentations Digital and Graphic Arts Energy and Power Technology Fabric Creations Fashion Design Integrative STEM Interior Design Intro to Culinary Arts & Baking Marketing Mechanical Drawing I Nutrition: Healthy Choices Personal Keyboarding Web Page Design Wood Technology I	Advanced Drawing (Drawing or Art I) Advanced Photography (Photography) Baking (Intro to Culinary Arts) Culinary Arts (Intro to Culinary Arts) Computer Programming I (Geometry) Computer Programming II (Computer Program I) Advanced Fashion Design (Fashion Design) Advanced Interior Design (Interior Design) Painting (Drawing) Advanced Guitar (Guitar) Advanced Music Tech & Apps (Music Tech & Apps) Music Theory II (Music Theory) Advanced Sculpture & Ceramics (Sculpture & Ceramics) Graphic Design for the Artist (Drawing)

## Course Sequence Guide

ENGLISH DEPARTMENT			
	College Prep	Honors	AP/Dual Enrollment
Grade 9	English I CP	English I H	
Grade 10	English II CP	English II H	
Grade 11	English III CP	English III H	AP Language & Composition
Grade 12	English IV CP	English IV H	AP Literature & Composition English II2/113 - RVCC*

\*Students should review the requirements for dual enrollment with their counselor.

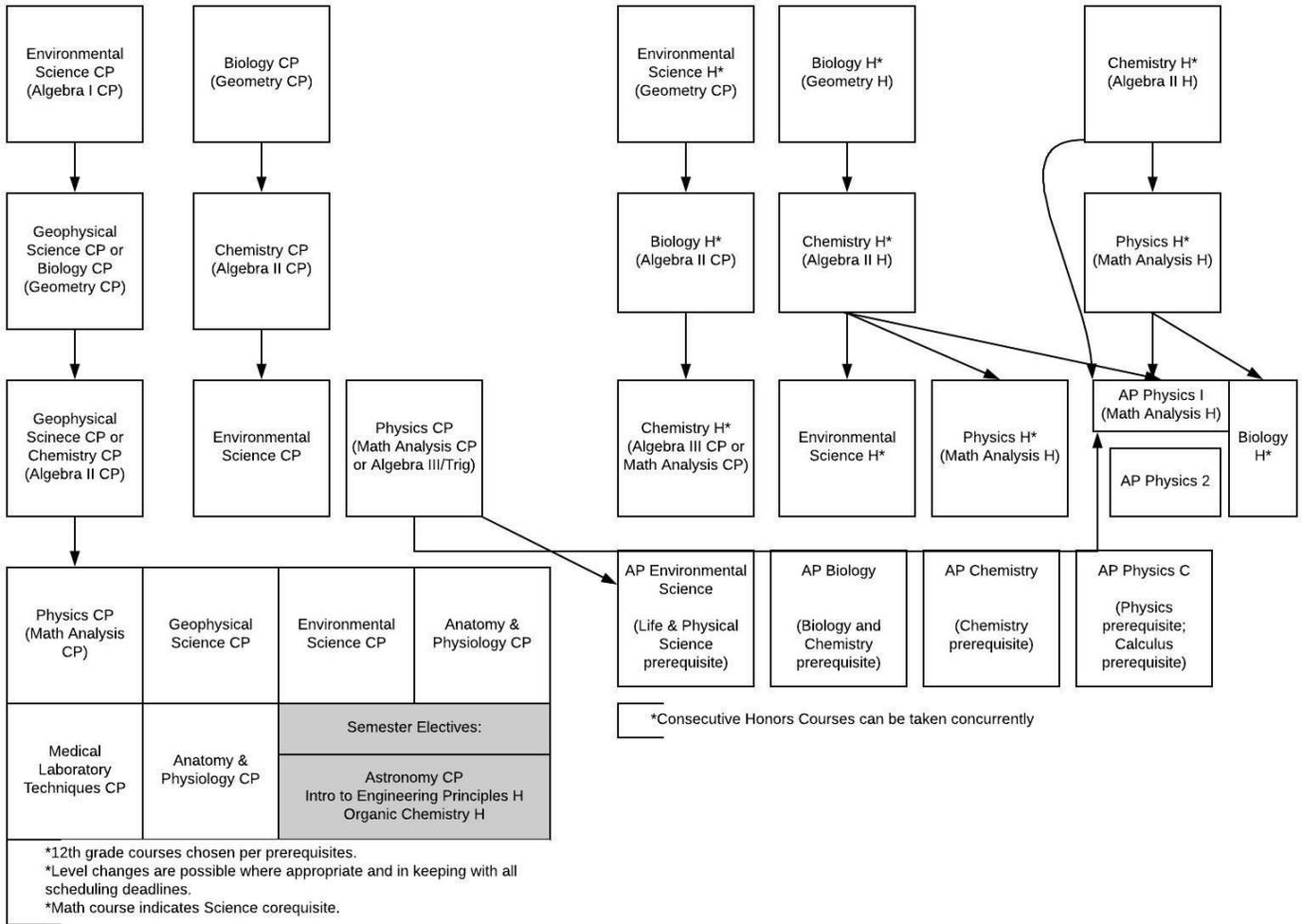
MATHEMATICS DEPARTMENT			
College Prep			Honors
*Algebra I CP			*Geometry H
Geometry CP			Algebra II H
Algebra II CP			Math Analysis H
Algebra II and Trig CP			AP Calculus AB
Selected Topics CP CP	or Math Analysis	or Statistics CP	AP Calculus BC
Calculus CP		and/or Discrete Math CP	

\*Some students complete these courses at Hillsborough Middle School.

SOCIAL STUDIES DEPARTMENT			
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	College Prep	Honors	AP/Dual Enrollment
<b>Grade 9</b>	World History CP	World History H	
<b>Grade 10</b>	US History I CP Community Connections	US History I H	
<b>Grade 11</b>	US History II CP Community Connections		AP US History/Dual Enrollment
<b>Grade 12</b>	Gender Studies Economics Community Connections Genocide & Holocaust Government & Politics Individual & Interpersonal Behavior Sociology America in the New Millenium		AP European History, AP US Government & Politics, AP Psychology, AP Micro/Macroeconomics

## SCIENCE DEPARTMENT



## WORLD LANGUAGE DEPARTMENT

	Spanish	French	German	Italian	Latin	Chinese	American Sign Language
<b>Grade 9</b>	Spanish II CP*	French II CP*	German II CP*	Italian II CP*	Latin II CP*	Chinese II CP*	ASL I CP
<b>Grade 10</b>	Spanish III CP	French III CP	German III CP	Italian III CP	Latin III CP	Chinese III CP	ASL II CP
<b>Grade 11</b>	Spanish IV CP	French IV CP	German IV CP	Italian IV CP	Latin IV CP	Chinese IV CP	ASL III CP
<b>Grade 12</b>	AP Spanish	AP French	AP German	AP Italian			

\*Some students will be placed into Level III for 9th grade.

\*Level II is most often taken when a student is continuing in the same language taken in middle school.

### POST SECONDARY PLANNING CHART

GOALS:	2-YEAR COLLEGE	4-YEAR COLLEGE	SELECTIVE COLLEGE	ENGINEERING COLLEGE	TECHNICAL INSTITUTE	DIRECT EMPLOYMENT
NUMBER OF YEARS RECOMMENDED						
English	4	4	4	4	4	4
Social Studies	3	3	3-4	3	3	3
Mathematics	3	3	4	4	3	3
Science	3	3	3-4 (Lab)	4	3	3
World Language	1	2-3	3-4	2-3	1	1
Arts	1	1-2	1-2	1-2	2	1
Business/Computer Science	1	1-2	1-2	1-2	2	1

### STUDENT PLANNING WORKSHEET FOR HIGH SCHOOL CREDIT AND COURSE REQUIREMENTS FOR GRADUATION

Use this worksheet to sketch out your academic plan. Be sure to check course requirements and prerequisite information throughout the Program of Studies. Enter your course requests for electives in the Parent Portal of Genesis.

<i>Listed in parentheses are the minimum number of credits to be earned in each category.</i>	Grade 9	Grade 10	Grade 11	Grade 12
English (20 credits)				
Mathematics (15 credits)				
Science (15 credits)				
Social Studies (5 credits World History, 10 credits US History)				
World Language (5 credits)				
Health & Physical Education (1 yr for each year enrolled in a NJ Public School)				
Financial & Economic Literacy (2.5 credits)				
Career Elective(s) (5 credits)				
Fine, Visual, & Performing Arts Elective(s) (5 credits)				
Elective(s)				
<b>Total credits needed for graduation:</b>	<b>120</b>			

## **Comprehensive List of Electives 2019-2020**

Anything with an asterisk \* has a prerequisite or grade requirement

Grade level requirements are listed next to course name if there are restrictions

### **Applied Technology**

Digital & Graphic Arts

\*Graphic Arts 2; FY; 11-12

\*Graphic Arts 3; FY; 12

Web Page Design

Energy & Power Technology

Integrative STEM

Wood Technology 1

\*Wood Technology 2; FY; 11-12

\*Wood Technology 3; FY; 11-12

\*Adv Study in Wood Tech; FY; 12

Mechanical Drawing 1

\*Mechanical Drawing 2; FY; 10-12

\*Architect. Drawing 1; FY; 10-12

\*Architect. Drawing 2; FY; 11-12

\*Advanced Study in Drafting 12

### **English Electives**

Creative Writing 1

Drama

Exploring Journalism

Locating Gender in Literature 10-12

Philosophy & Popular Culture

Shakespeare's Comedies 10-12

Publications: Yearbook; FY; 10-12

Publications: Newspaper; FY; 10-12

SAT Prep; 10-12

Public Speaking

War Fiction; 10-12

Baseball: The Soul of America; 10-12

### **Family and Consumer Sciences**

Family Living; 10-12

Fashion Design

\*Advanced Fashion Design

Fabric Creations

Interior Design

\*Advanced Interior Design

Intro to Culinary Arts & Baking

\*Baking

\*Advanced Baking; 10-12

\*Culinary Arts

\*Advanced Culinary Arts; 10-12

Nutrition

Independent Living; FY; 10-12

Preschool Child/Nursery (2 periods) 11-12

### **Financial Literacy**

Financial Literacy

### **Fine Arts**

AP Art History (full year) 10-12

\*AP Art Studio (full year) 11-12

Art 1 (full year)

\*Art 2 (full year) 10-12

\*Art 3 (full year) 11-12

Cartooning & Animation

Crafts

Drawing

\*Advanced Drawing

\*Graphic Design

\*Painting

\*Advanced Painting

Photography

\*Advanced Photography

Digital Photography

Portfolio/Advanced Studio 11-12

Sculpture & Ceramics

\*Advanced Sculpture & Ceramics

Video and Film

\*Advanced Video & Film (full year) 10-12

### **Information & Communication Technology**

Accounting 1 10-12

Business Organization & Management 10-12

Business Presentations

Law 10-12

Marketing

Personal Keyboarding

### **Math Electives**

\*Statistics CP 12

\*Discrete Math CP 12

SAT Prep; 10-12

\*Computer Programming 1

\*Computer Programming 2H

\*AP Computer Science (full year) 10-12

\*Distributed Applications Development H

(full year) 10-12

### **Music Electives**

Guitar

\*Advanced Guitar

Music Technology & Applications

\*Advanced Music Technology & Applications

Music Theory 1

\*Music Theory 2

\*AP Music Theory (full year) 10-12

Freshman Band (full year)

\*Concert Band (full year) 10-12

\*Wind Ensemble (full year) 10-12

\*Orchestra (full year)

Concert Choir (full year)

\*Mixed Chorale (full year) 10-12

\*Women's Chorale (full year) 10-12

### **H & PE Electives**

Sports Injuries 1 10-12

Sports Injuries 2 10-12

### **Science Electives**

\*Organic Chemistry H 11-12

\*Intro to Engineering H 12

\*Astronomy CP 12

\*Anatomy & Physiology CP (full year) 12

\*Medical Lab Techniques (full year) 12

### **Social Studies Electives**

Community Connections 10-12

Economics CP 11-12

Gender Studies CP 11-12

Genocide & Holocaust CP 11-12

Government & Politics CP 11-12

Individual & Interpersonal Behavior CP  
(psychology) 11-12

Sociology CP 11-12

America in the New Millennium CP 11-12

\*AP Human Geography

\*AP World History (full year) 10-12

\*AP European History (full year) 10-12

\*AP US Government & Politics (full year)

10-12

\*AP Psychology (full year) 11-12

\*AP Micro/Macro Economics (full year) 11-12

### **Miscellaneous Electives**

Library Service 11-12

Technology Education Community Helpdesk

Independent Study\*

REACH Senior Internship\*