

**FABIUS POMPEY**

**HIGH SCHOOL**

**CORE COURSE**

**DESCRIPTION**

**HANDBOOK**

## **COURSE OFFERINGS**

- THIS COURSE HANDBOOK IS DESIGNED TO BE A COMPREHENSIVE LISTING OF **CORE** COURSES OFFERED AT THE HIGH SCHOOL LEVEL. ELECTIVES ARE LISTED SEPARATELY.

## **FOR COLLEGE PREPARATION:**

- STUDENTS AND PARENTS ARE REMINDED THAT THE DEVELOPMENT OF A STRONG COLLEGE PREPARATORY TRACK INCLUDES:
  - **4-5 HIGH SCHOOL CREDITS IN EACH OF THE CORE AREAS** (ENGLISH, SOCIAL STUDIES, MATH, SCIENCE, AND FOREIGN LANGUAGE) AND,
  - **COURSEWORK IN A VARIETY OF ELECTIVE AREAS**.

## NYS Graduation Requirements

### Credits Required – 22 Minimum / College bound - 26 or higher

English	4	Foreign Language	1
Social Studies	4	Health	½
Math	3	Fine Arts	1
Science	3	PE	2

### Regents Exams Required – score of 65 or higher

5 exams must be passed, which typically includes the 5 listed below. Under the new “4 + 1” regulations, students may replace one failed Social Studies 10 or 11 score with an additional math or science score. Other exams may also be approved for this option. (Identified students may use the option of scoring 55 or higher on any of the 5 exams, which results in a local diploma.)

English (ELA 11)	1	Social Studies 10	1
Math (any of the 3 exams)	1	Social Studies 11	1
Science (any of the NYS exams)	1		

### College Bound Recommendations

All college bound students are strongly recommended to complete:

- 4+ credits of Math – incl. Regents level Geometry, Trigonometry
- 4+ credits of Science – incl. Regents / AP E. Science, Chemistry, Physics, Biology
- 3+ credits of Foreign Language
- Honors and/or AP course as appropriate

### Diploma Types – based on successful completion of Regents Exams:

- \* **Regents** - 65 or higher on each of the 5 required exams listed above
- \* **Regents with Honor** – the 5 exams above average out to 90 or higher
- \* **Advanced Regents** – 65 or higher on each of the 5 required exams above, plus 65 or higher on two additional Math Regents (total 3), and 65 or higher on one additional Science Regents (total 2), and 65 or higher on the locally developed Foreign Language exam

**Adv. Regents with Honor** – all Regents Exams used to meet the diploma average out to 90 or higher

**Local** – available to identified students only, who have scored below 65 on one or more of the 5 required exams listed above

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**Math / Science Mastery Designation** – Any student who achieves a score of 85 or above on all 3 Math and/or 3 Science Regents Exams will have a Math and/or Science designation placed on the diploma.

# **CORE CLASSES**

English, Social Studies, Math, Science, Foreign Language

## **English**

### **ENGLISH 9**

English 9 is designed to expand a student's understanding of literature, including both classics and modern selections in the various genres. This course also stresses the continued improvement of writing skills with special emphasis on organization and development.

### **ENGLISH 9 HONORS**

English 9H is intended for students with excellent reading and writing skills and is a more rigorous course of study. It is intended to prepare students for their Regents exam and an honors track of study in 10th and 11th grade, which will culminate with AP English in 12th grade. This course involves extensive literature study in fast-paced units, and more reading will be required outside of class. There are multiple middle school academic prerequisites (including course/final exam scores, NYS assessment scoring, AIMSweb+ data) in addition to teacher recommendations for entry into this course.

### **ENGLISH 10**

This course is a continuation of the skills developed in English 9. Writing skills will continue to be a focus, as well as vocabulary and literature. Students will be expected to improve their skills in preparation for the 11<sup>th</sup> grade NYS English Language Arts (ELA) Regents exam.

### **ENGLISH 10 HONORS**

English 10H is intended for students with excellent reading and writing skills, who are motivated to complete a more rigorous course of study. This course includes extensive literature study, and students will be expected to do more reading outside of class. Writing assignments will be more sophisticated, grammar study will progress at a faster pace to a more advanced level, and vocabulary units will be more challenging. There are multiple academic prerequisites (including course/final exam scores, NYS assessment scoring, AIMSweb+ data) in addition to teacher recommendations for entry into this course.

### **ENGLISH 11**

English 11 is primarily a survey of American Literature, which focuses on the NYS standards, with writing assignments designed to parallel the NYS English Language Arts (ELA) Regents exam taken in June.

### **ENGLISH 11 HONORS**

English 11H is designed to enrich the English 11 Regents curriculum, and will focus on American Literature with emphasis on critical analysis. This more challenging course will prepare students to take AP English 12 in their senior year. All students will complete the ELA Regents exam in June.

## **ENGLISH 12**

English 12 explores literary genres and themes, concentrating on the novel and drama, as well as a year-long independent reading project. The course also continues with the basic principles of vocabulary-building and grammar. Non-fiction and literary writings, including a college essay and a research project, as well as analytical investigations are designed to improve students' literary perception and writing styles.

## **AP LITERATURE AND COMPOSITION**

This course is intended for motivated, mature students with a genuine interest in literature and writing. A college-credit class with college-level reading, the course emphasizes the skills of critical reading and writing. There are two college-credit tests in the spring: the AP Examination in Literature and Composition, and the AP Examination in Language and Composition.

## **SOCIAL STUDIES**

### **GLOBAL HISTORY AND GEOGRAPHY 9**

This course offers the first half of the required 2-year curriculum in Global History and Geography. Units include Early Civilizations, Empires of the Ancient World, Regional Civilizations and Early Modern Times. Students complete a final exam – the Global History and Geography Regents Exam is not taken until the second year (10<sup>th</sup> grade) of the curriculum.

### **GLOBAL HISTORY AND GEOGRAPHY 10**

This course offers the second half of the required 2-year curriculum in Global History and Geography. Units cover, in chronological order, the Enlightenment through present day. Students complete the Global History and Geography Regents Exam in June.

### **GLOBAL HISTORY AND GEOGRAPHY 10 AP**

This course curriculum parallels the Regents course, but adds intensive levels of reading and critical writing. Similar to an upper level college course, this course requires extensive outside work, with classroom time for discussion and debate. Students must take an AP exam in May and complete a Regents exam in June.

### **UNITED STATES HISTORY AND GOVERNMENT 11**

This is the study of American History and Government from the Revolution to the present. There are two major emphases; 1) the political, economic and cultural history of the nation and 2) the study of our government and the Constitution. Students complete a Regents exam in June.

### **UNITED STATES HISTORY AND GOVERNMENT 11 AP**

This course curriculum parallels the Regents course, but adds intensive levels of reading and critical writing. Similar to an upper level college course, this course requires extensive outside work, with classroom time for discussion and debate. Students must take an AP exam in May and complete a Regents exam in June.

## **PARTICIPATION IN GOVERNMENT (PIG)**

This one semester course is one half of the Social Studies 12 requirement for graduation. It emphasizes the interaction between citizens and their government. Student participation is encouraged throughout the semester on such topics as voting, political parties, interest groups, and the influence of the media.

## **ECONOMICS**

This one semester course is one half of the Social Studies 12 requirement for graduation. It is the study of the American economy and how it operates. It includes studying the stock market, the Federal Reserve System and every day economic topics such as keeping a checkbook, applying for credit, and purchasing insurance.

## **AP ECONOMICS / GOVERNMENT (PIG) HONORS**

This full year course is the honors level of the Government class, followed by AP Economics. Topics in the fall include a study of the American government and the role that citizens play, including voting and elections, policymaking, and the federal bureaucracy. Spring economics topics include supply and demand, economic indicators, and monetary and fiscal policy. The AP portion of this course requires a strong understanding of basic math concepts. All enrolled students will take the AP exam in May. Students **MUST** take both of these courses together – they may not be split out. Also, once enrolled, students may **NOT SWITCH** to the Regents level of the class.

## **MATH**

### **ALGEBRA**

This is the first in a series of 3 courses (Algebra, Geometry, Alg2/Trigonometry), which follows a college preparatory track. The focus of this course is primarily algebra and its applications. Students take a Regents exam in June.

### **ALGEBRA A**

This course prepares students with the skills necessary for success in Algebra B. Topics covered include a review of basic arithmetic and beginning equations. Upon successful completion of the course, students will take Algebra B. Students take a final exam in June, not a Regents exam.

### **ALGEBRA B**

This is the second course in a two year extended study of the Algebra curriculum. Students complete the Algebra Regents exam in June.

### **GEOMETRY**

This is the second in a 3 course series (Algebra, Geometry, Trigonometry), which follows a college preparatory track. Major areas of study include proofs, transformations, circles, quadrilaterals and solids. Students take a Regents exam in June.

## **GEOMETRY A**

This course covers the topics of the Geometry curriculum without the rigor of Proofs, and there is **NO REGENTS EXAM** at the end of the course. Students may be required to take a Final Exam.

Students completing the 2-year Algebra sequence(Algebra A and B) can receive a 3rd math credit by successfully completing this course. An emphasis is placed on numerical calculations on triangles and quadrilaterals , improving spatial thinking through the use of diagrams and drawings, and performing constructions with a compass and straightedge.

## **ALGEBRA 2** (Prerequisite – 75 avg. in both the Geometry class and on the Geometry Regents)

This is the third in the series of college preparatory math courses. Major topics include statistics, sequences and series, trigonometry, and functions. Students take a Regents exam in June.

## **MATH 12/PRECALCULUS**

Elective class for Juniors or Seniors that have completed Algebra, Geometry, and Algebra II. This is a non-Regents course designed to review all 3 of the common core math courses and prepare students for college level Calculus. Topics covered include: algebra, trigonometry, logarithms, conic sections, matrices, and limits.

## **CALCULUS – 4 credits awarded through TC3**

This is a 4 credit hour college calculus taught in conjunction with Tompkins Cortland Community College. It is the culminating course for accelerated math students. This rigorous college calculus course focuses on derivative and integral functions. Specific topics include limits and continuity, derivative and antiderivative, and definite integral. Students solve problems dealing with rates, areas, volumes, and surfaces of revolution: arc length, work, fluid pressure; velocity and acceleration; and exponential growth and decay.

## **STATISTICS**

How is math used to make decisions in the real world? Students investigate methods to collect, organize, and calculate with data. They then learn how to use their calculations to make decisions and predictions. This course (open to juniors and seniors) meets the third year math course requirement for graduation. Students who have completed Algebra 1, Geometry, and Algebra 2 may elect to earn 3 college credits through Onondaga Community College.

## **BUSINESS MATH**

This course meets the third year course requirement in mathematics required for graduation. The course is designed to prepare students for freshmen level college math courses and introduce them to topics related to personal finance and college level business classes.

## **SCIENCE**

### **LIFE SCIENCE: Biology**

A 9th or 10th grade level course covering topics such as human physiology, matter and energy in ecosystems, interdependence among living things, reproduction and development, genetics and natural selection. There is a required laboratory component and students take a regents exam in June.

## **EARTH & SPACE SCIENCE**

This laboratory science course is offered to freshman and accelerated 8th graders, and covers topics in geology, meteorology, astronomy, and their impacts on humans. The course has a Regents exam in June.

## **CHEMISTRY**

This is an upper level lab science course and includes the study of the composition, structure, and properties of matter. Also, students will study the changes that matter goes through and the energy that accompanies those changes. The periodic table of elements is used and students learn how to balance chemical equations. A Regents exam is taken in June.

## **PHYSICS**

This is an upper level lab science course. Topics include motion, forces, energy, electricity, sound, light, and the nature of the atom. Students take a Regents exam in June.

## **ADVANCED PLACEMENT BIOLOGY (AP)** (prerequisite – Regents Biology and Chemistry)

This is one of the culminating science courses for accelerated students and is the equivalent of a college introductory course taken by first-year Biology majors. The course is rigorous, with an extensive and in-depth reading component, and advanced level lab work. Students are required to take the AP exam in May, which may result in college credit.

## **ADVANCED PLACEMENT CHEMISTRY (AP)** (prerequisite – Regents Chemistry and Algebra II)

This is one of the culminating science courses for accelerated students and is the equivalent of a college introductory course taken by first-year science majors. The problem solving techniques and lab work are rigorous. Students must take the AP exam in May, which may result in college credit.

## **SUNY/ESF - GLOBAL ENVIRONMENT AND THE EVOLUTION OF HUMAN CULTURE**

(meets every other day) ESF Course Catalog Number: EFB 120

Prerequisites: Successful completion of Living Environment (Biology), Earth Science, and completion of, or concurrent enrollment in, Regents Chemistry.

This is a challenging, college level course that carries an extensive reading component and writing assignments. The focus is on detailed aspects of environmental issues and their impact on the development of social and historical patterns. A required research project and paper is included in the course.

## **SUNY/ESF - Independent Research Apprenticeship**

This course may be taken in the senior year if ESF/Global Environment was successfully passed as a junior. The course involves one or more research projects, with an emphasis on finding experts in the fields of study. The course is both challenging, and excellent preparation for students interested in pursuing research at the college level. Requires Global Environment as a prerequisite, along with permission of the instructor. Listed by SUNY/ESF as: ESF 298 - Research Apprenticeship (3 credits).

## **FOREIGN LANGUAGE**

### **SPANISH 6**

Spanish 6 is a 10-week introduction to the Spanish language. Basic vocabulary is introduced through games and activities that will provide foundation for 7th and 8th grade Spanish. Though it is meant to be a fun introduction, there are several important concepts that are learned.

### **SPANISH 7**

This is the first full-year Spanish course. Students begin learning basic grammatical structures of the language including verb conjugation and adjective agreement, as well as a wide variety of new vocabulary. This course helps develop a base from which students will build to proficiency level language skills by the end of the following year.

### **SPANISH I (Spanish 8)**

This course covers topics of vocabulary, verb endings, nouns/pronouns, and other basic parts of speech. Students take a local proficiency exam in June. Successful completion of this course meets the minimum one-credit language requirement for graduation. Those who wish to continue on with Spanish will move on to Spanish II. Students who do not pass the proficiency test must take and pass a Spanish I class in order to earn the required credit.

### **SPANISH II**

This course builds on the vocabulary and oral skills attained in the level I course. More advanced grammar, sentence structure, verb tenses and idiomatic expressions are emphasized.

### **SPANISH III**

The emphasis of this course is to develop oral and written proficiency in the language, and to provide preparation for the locally developed comprehensive exam taken in June. Successful completion of this course and its final exam fulfills the foreign language requirement necessary to receive a Regents Diploma with Advanced Designation.

### **COLLEGE SPANISH 201**

College Spanish 201 is designed to mirror an intermediate-level college Spanish course. Students will be introduced to many advanced grammar topics as well as begin to read and analyze authentic pieces of Hispanic literature. There is a continued focus on acquiring greater Spanish communication skills and a deepening understanding of other cultures as they relate to our own. Most classroom communication is done in Spanish. Students who pay the fee for this course will earn three college credits from SUNY Oswego upon successful completion of the course.

### **COLLEGE SPANISH 202**

College Spanish 202 is a continuation of the College Spanish 201 course. Students will learn and reinforce advanced grammar topics as well as read and analyze authentic pieces of Hispanic literature. There is a continued focus on acquiring greater Spanish communication skills and a deepening understanding of other cultures as they relate to our own. Most classroom communication is done in Spanish. Students who pay the fee for this course will earn three college credits from SUNY Oswego upon successful completion of the course.

## **Health/PE**

### **HEALTH**

This course fulfills the 1/2 unit of Health required at the high school level for graduation. State mandated topics include units on tobacco, alcohol, other drugs, HIV-AIDS, parenting and mental health. Other topics covered are stress management, healthy relationships and disease prevention.

### **PHYSICAL EDUCATION**

PE meets every other day for all students. A major component is an extensive unit on personal fitness. Students receive instruction on the proper use of weight training equipment, work out routines, etc., and are expected to develop and implement a personal program including the four components of fitness. Activities are also included which promote health and fitness in all stages of life. All students must earn two credits of PE in order to meet graduation requirements.

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