

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 / Collegebound - 26 or higher

English	4	Foreign Language	1
Social Studies	4	Health	1/2
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 – inc. Regents level Geometry, Trigonometry
- 4+ credits of Science – inc. 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

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 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 11th 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.

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 types and themes, concentrating on the novel and drama. The course also continues with the basic principles of critical writing. Included are literature based essays and analytical investigations designed to improve students' literary perception and writing styles.

ENGLISH 12 AP (ADVANCED PLACEMENT)

This course is intended for motivated students with a history of excellence in English Language Arts. AP focuses on advanced literature and emphasizes the skill of critical reading and writing. There is a lab associated with this course. AP students are required to take the AP Examination in Literature and Composition in May and may receive college credit.

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 (10th 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, including some of those listed above in Geometry. Students may take this course if they need an extended curriculum in Geometry, or if they score below a 75 on the Algebra Regents Exam. Students do NOT take a Regents in June.

ALG2 / TRIGONOMETRY (Prerequisite – 75 avg. in both the Geometry class and on the Geometry Regents)

This is third in the series of college preparatory math courses. Major areas of study include functions, rational expressions, advanced stats/probability, and trigonometry. Students take a Regents exam in June.

MATH 12 (Precalculus)

The course includes topics in algebra, trigonometry, logarithms, and functions. It also introduces vectors, matrices, polar coordinates, and parametric equations.

CALCULUS – 3 credits awarded through TC3

This is a 3 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 anti-derivative, 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. There is NO TUITION FEE for the class, and will receive a TC3 transcript at the successful conclusion of the class.

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

LIVING ENVIRONMENT (Biology)

This 9th grade science course includes such topics as characteristics of living things, cell structure and function, cell processes, viruses, bacteria and disease and human systems. Students take a Regents exam in June.

EARTH SCIENCE

This laboratory course is offered to tenth graders and accelerated 8th grade students, and covers topics in geology, meteorology, astronomy, and environmental studies. Students take 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)

This is one of the culminating science courses for accelerated students and is the equivalent of a college introductory course taken by freshmen 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 being awarded.

ADVANCED PLACEMENT CHEMISTRY (AP) (prerequisite – Regents Chemistry)

This is one of the culminating science courses for accelerated students and is the equivalent of a college introductory course taken by freshmen 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.

ADVANCED PLACEMENT PHYSICS 2 (AP) - (prerequisite – Regents Physics)

AP Physics 2 is the equivalent of a first-semester college course in algebra-based physics, but it is designed to be taught over a full academic year to enable AP students to develop deep understanding of the content and to focus on applying their knowledge through inquiry labs. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It also introduces electric circuits. Students will take the AP Physics 2 exam in May as a requirement of this course, and may receive college credit.

FOREIGN LANGUAGE

SPANISH 6, 7 & 8

These beginning level courses cover the mandated two units of study for foreign language in order to take the local proficiency test. Students who pass the local proficiency test at the conclusion of Spanish 8, will earn one high school credit. This credit meets the minimum graduation requirement. Those who wish to continue with Spanish will move 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 I

This course covers topics of vocabulary, verb endings, nouns/pronouns, and other basic parts of speech for the language. Successful completion of this course meets the mandatory one credit requirement for graduation. Students may take a local proficiency exam in June.

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.

COLLEGE SPANISH 201

This elective follows the syllabus for SUNY Oswego for Intermediate Spanish. The course reviews basic grammar, and introduces more complex structures in reading and composition. All classroom communication is done in the language. Students who pay the tuition for this course, will earn **three (3) college credits from SUNY Oswego** upon successful completion of the course.

COLLEGE SPANISH 202

This course is a continuation of the College level I course, offered through SUNY Oswego. Students who pay the tuition for this course, will earn **three (3) college credits from SUNY Oswego** upon successful completion of the course.

Health/PE

HEALTH

This course fulfills the ½ unit of Health required at the high school level for graduation. State mandated topics include units on tobacco, alcohol, other drugs, HIV, AIDS, parenting, mental health, stress management, and chronic disease.

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.