

ADVANCED PLACEMENT BIOLOGY This college level course in biology is for serious science students only. The student must take the advanced placement examination at the end of the course. College credit may be given for this course at the discretion of the particular college the student attends. PREREQUISITE: Regents or Honors Living Environment and Regents or Honors Chemistry. A final grade of B+ or higher is required in Living Environment and Chemistry, for success in this course. A final grade of B+ (85%) or higher is required in ALL of the science Regents courses and examinations.

ADVANCED PLACEMENT CHEMISTRY This college level course in chemistry is for serious science students only. The student must take the advanced placement examination at the end of the course. College credit may be given for this course at the discretion of the particular college involved. PREREQUISITE: Regents or Honors Chemistry. A final grade of B+ or higher is required in Living Environment, Chemistry, and Physics for success in this course. A final grade of B+ (85%) or higher is required in ALL of the science and mathematics Regents courses and examinations. COREQUISITE: Regents Physics must be taken concurrently with AP Chemistry or must be completed prior to taking this course.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. This college level course is for students interested in an interdisciplinary approach to the fields of Earth Science, Geology, Ecology, and Sociology. The course includes both laboratory and field experiences. College credit may be given for this course at the discretion of the particular college the student attends. PREREQUISITE: Regents Earth Science, Regents or Honors Living Environment and Regents or Honors Chemistry. A final grade of B (80%) or higher is required in ALL of the Science Regents courses.

ADVANCED PLACEMENT PHYSICS 2 This course is an algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics and quantum, atomic, and nuclear physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. To earn credit for the course, the student must take the AP Physics 2 examination. College credit may be given for this course at the discretion of the particular college the student attends. PREREQUISITE: Students should have had AP Physics 1. A final grade of a B+ or higher is required in Living Environment, Chemistry and AP Physics 1. A final grade of B+ (85%) or higher is required in ALL of the Regents courses and examinations in science and mathematics. COREQUISITE: Students should have taken or be concurrently taking Precalculus.

ADVANCED PLACEMENT PHYSICS-C (Mechanics and Electromagnetism) This college level course in Physics is for advanced science and math students only. AP Physics C is a calculus-based course that includes topics in classical mechanics and classical electromagnetism. This course is intended for students who plan to major in Engineering, Chemistry, and Physics. To earn credit for the course the student must take both parts of the AP Physics C examination. College credit may be given for this course at the discretion of the particular college the student attends. PREREQUISITE: Regents Physics, Regents Chemistry, Regents or Honors Living Environment are required as well as an exceptional background in mathematics. A final grade of B+ (85%) or higher is required in ALL of the Regents courses and examinations in science and mathematics. COREQUISITE: AP Calculus BC

ADVANCED PLACEMENT PHYSICS-C (Mechanics Only) This college level course in Physics is for advanced science and math students only. AP Physics C is a calculus-based course that focuses upon topics in classical mechanics. To earn credit for the course the student must take the AP Physics C Mechanics examination. College credit may be given for this course at the discretion of the particular college the student attends. PREREQUISITE: Regents Physics, Regents Chemistry, Regents or Honors Living Environment are required as well as an exceptional background in mathematics. A final grade of B+ (85%) or higher is required in ALL of the Regents courses and examinations in science and mathematics. COREQUISITE: AP Calculus AB or BC

