

0327 Tech Prep Biology

Category: Science **Grade:** 10 **No. of trimesters:** 3 **Credits:** 1

The purpose of the course is to provide the science foundation for further study in agriculture, health, Consumer Science, and certain areas of technology and the trades. It presents biology in the context of work, home, society, and the environment. It uses an applications-oriented approach to teach the concepts of biology, and emphasizes problem-solving, decision-making, and hands-on learning. Typical units covered are: Animal Life Processes, Community of Life, Continuity of Life, Microorganisms, and Plant Growth and Reproduction. The course is geared for students planning on attending a two-year community college.

0336 Honors Lab Biology

Category: Science **Grade:** 9-10 **No. of trimesters:** 3 **Credits:** 1

Honors biology is a year long course designed for students who plan to attend a 4-year college and major in a science related field. This course uses a college level textbook and students are expected to be able to read and assimilate information at an honors level. Strong mathematical and critical thinking skills are required to comprehend many abstract scientific concepts. Scientific papers and research projects are required of students in this class. Students are required to have a current teacher recommendation for acceptance into the course.

0391 AP Biology

Category: Science **Grade:** 11-12 **No. of trimesters:** 3 **Credits:** 1

The AP Biology course is designed to be taken only after the successful completion of Biology. In addition, the recommended mathematics prerequisite for an AP Biology class is the successful completion of Algebra II. This course is for science majors, those who have either biology, (pre) medicine, or environmental science as their main interest. Topics for study include: molecules & cells, heredity & evolution, and organisms & populations. This course is designed to enable students to gain college credit and/or advanced placement in biology at the introductory levels most commonly offered at colleges and universities. Advanced Placement courses are by nature more demanding than regular high school level courses; therefore students should be prepared for a rigorous academic environment. **STUDENTS MUST TAKE THE AP EXAM.**

0351 Tech Prep Chemistry

Category: Science **Grade:** 11-12 **No. of trimesters:** 3 **Credits:** 1

PREREQUISITE: ALGEBRA I (or Equivalent), TECH PREP BIOLOGY - The purpose of the course is to provide the science foundation for further study in agriculture, health, Consumer Science, and certain areas of technology and the trades. It presents chemistry in the context of work, home, society, and the environment. It uses an applications-oriented approach to teach the concepts of chemistry, and emphasizes problem-solving, decision-making, and hands-on learning. Typical units covered are: matter, periodic table, chemical bonds, chemical reactions, acids & bases, and Environmental Chemistry. The course is geared for students planning on attending a two-year community college.

0311 College Prep Lab Chemistry

Category: Science **Grade:** 11-12 **No. of trimesters:** 3 **Credits:** 1

PREREQUISITE: COLLEGE PREP LAB BIOLOGY, ALGEBRA 1, GEOMETRY, TAKING ALGEBRA 2 or ACCELERATED MATH 2 - The structure, composition and changes in matter and energy are studied. The following topics are some of those included: states of matter, atomic structure, acids and bases, chemical reactions, gas laws, and nuclear chemistry. Laboratory work is used to reinforce principles learned in class as well as affording the student the practical lab experience.