

SCIENCE DEPARTMENT
ADVANCED PLACEMENT & INTERNATIONAL BACCALAUREATE COURSES
(A minimum student enrollment is required to support these offerings)

Advanced Placement Biology

http://www.collegeboard.com/student/testing/ap/sub_bio.html

Grade: 10-12 **Course:** One Year

This course is recommended by the College Board as a second year biology course with previous completion of Honors Chemistry.

Recommended Prerequisites: Any one of following bulleted options below will fulfill the AP science course prerequisites*

CP Biology AB and CP Chemistry AB and/or CP Physics AB completed with an A

Honors Biology AB and Honors Chemistry AB completed with a B or better

AP Physics 1 AB and/or AP Chemistry AB completed with a C or better.

You may also combine the required courses listed above (example: CP Biology with Honors Chemistry)

Geometry AB passed with a B or better.

Excellent Work habits, Strong Reading-Writing Skills, Science teacher recommendation. This course is the equivalent of a first-year college biology course.

*Placement requires concurrent enrollment in a period 0 or 6 Advanced Biology lab course.

Advanced Placement Chemistry

http://www.collegeboard.com/student/testing/ap/sub_chem.html

Grade: 10-12 **Course:** One Year

This course is recommended by the College Board as a second year chemistry course with previous completion of Honors Chemistry.

Recommended Prerequisites: Any one of following bulleted options below will fulfill the science course prerequisites

CP Biology AB and CP Chemistry AB and/or CP Physics AB completed with an A

Honors Biology AB and Honors Chemistry AB completed with a B or better

AP Physics 1 AB and/or AP Biology AB completed with a C or better.

You may also combine the required courses listed above (example: CP Biology with AP Physics I)

Geometry AB completed with a B or better.

Excellent Work habits, Strong Reading-Writing Skills, Science teacher recommendation.

This course is the equivalent of a first-year college chemistry course.

*Placement requires concurrent enrollment in a period 0 or 6 Advanced Chemistry lab course.

** Summer assignment.

Advanced Placement Environmental Science

http://www.collegeboard.com/student/testing/ap/sub_envsci.html

Grade: 11-12 **Course:** One Year

Recommended Prerequisites: Students should have completed Biology and Chemistry or Physics with a C or better.

Geometry AB Completed with a B or better.

Excellent Work habits, Strong Reading-Writing Skills, Science teacher recommendation.

This is a valuable senior course as it prepares students for a real-world investigation and evaluation of their environment. Excellent time management, work habits and strong reading-writing skills.

Advanced Placement Physics 1 Algebra-Based

<http://advancesinap.collegeboard.org/math-and-science/physics>

Grade: 9 **Course:** One Year

This course is recommended by the College Board as a first year physics course with previous completion of geometry and concurrent enrollment in Algebra II/Trigonometry or higher.

Recommended Prerequisites: 8th grade Honors Science with a B or better.

Algebra I AB completed with an A (or higher level math with a B).

Qualifies for Honors English. Excellent Work habits, Strong Reading-Writing Skills

Advanced Placement Physics 1 Algebra-Based

<http://advancesinap.collegeboard.org/math-and-science/physics>

Grade: 10 - 12 **Course:** One Year

This course is recommended by the College Board as a first year physics course with previous completion of geometry.

Recommended Prerequisites: Any one of following bulleted options below will fulfill the science course prerequisites

CP Biology AB and CP Chemistry AB and/or CP Physics AB completed with an A

Honors Biology AB and Honors Chemistry AB completed with a B or better

AP Chemistry AB and/or AP Biology AB completed with a C or better.

You may also combine the required courses listed above (example: CP Biology with AP Physics I)

Geometry AB completed with a B or better.

Excellent time management, work habits and strong reading-writing skills. Math and Science teacher recommendations.

Advanced Placement Physics 2 Algebra-Based

<http://advancesinap.collegeboard.org/math-and-science/physics>

Grade: 11-12 **Course:** One Year.

This course is recommended by the College Board as a second year physics course with previous completion of AP Physics 1.

Recommended Prerequisites: Completed AP Physics 1 AB with B or better. Completed Algebra II AB with a B or better. Excellent time management, work habits and strong reading-writing skills. Science teacher recommendation.

Advanced Placement Physics C (Mechanics) [Fall Semester]

http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2264.html

Grade: 11-12 **Course:** One Year, Fall Semester topic

This course is recommended by the College Board as a second year physics course with previous completion of Honors Physics or AP Physics 1.

Recommended Prerequisites: Honors Physics AB or AP Physics 1 AB completed with a B or better or CP Physics AB with an

A. Completed or concurrent enrollment in Calculus. Excellent Work habits. Science teacher recommendation.

**Summer Assignment.

Advanced Placement Physics C (Electricity and Magnetism) [Spring Semester]

http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2263.html

Grade: 11-12 **Course:** One Year, Fall Semester topic

This course is recommended by the College Board as a second year physics course with previous completion of Honors Physics or AP Physics 1.

Recommended Prerequisites: AP Physics 1 AB completed with a B or better or CP Physics AB with an A.

Completed or concurrent enrollment in Calculus. Excellent Work habits. Science teacher recommendation.

**Summer Assignment.

International Baccalaureate Sports, Exercise and Health Science

Grade: 11-12 **Course:** One Year

This course incorporates the disciplines of anatomy and physiology, biomechanics, psychology and nutrition, which are studied in the context of sport, exercise and health.

International Baccalaureate Biology SL/HL

Grade: 11-12 **Course:** One Year

This course is an experimental science that combines academic study with the acquisition of practical and investigational skills.

Recommended Prerequisites:

For students who have passed AP Biology

International Baccalaureate Chemistry SL/HL

Grade: 11-12 Course: One Year

This course is an experimental science that combines academic study with the acquisition of practical and investigational skills.

Recommended Prerequisites:

For students who have passed AP Chemistry

International Baccalaureate Environmental Systems and Societies SL2

Grade: 11-12 Course: One Year

This course is where through studying environmental systems and society's students will be provided with a coherent perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face.

Recommended Prerequisites:

For students who have passed AP Environmental Science

International Baccalaureate Physic HL2

Grade: 11-12 Course: One Year

This course is the most fundamental of the experimental sciences, as it seeks to explain the universe itself from the very smallest particles to the vast distances between galaxies.

Recommended Prerequisites: For students who have passed AP Physics 1 or higher