

SCIENCE DEPARTMENT AP/AICE COURSE OFFERINGS

TITLE: ADVANCED PLACEMENT BIOLOGY

LEVEL: Adv. Placement GRADE: 10-12 CREDIT: 1 TYPE: R, AS, C

SPECIAL NOTE: This is a laboratory oriented course. Students are required to take the Standardized Advanced Placement examination upon completion of the course.

PREREQUISITE: Chemistry, Biology, demonstrated ability and/or teacher recommendation.

DESCRIPTION: This course provides a study of the facts, principles, and processes of biology, and the collection, interpretation, and formulation of hypotheses from available data. The content includes, but is not limited to, that determined by the Advanced Placement program. Laboratory investigations of selected topics in the content, which also include the use of the scientific method, measurement, laboratory apparatus and safety, are an integral part of the course.

TITLE: ADVANCED PLACEMENT CHEMISTRY

LEVEL: Accelerated GRADE: 11-12 CREDIT: 1 TYPE: AS, E, C

SPECIAL NOTE: This is a laboratory-oriented course. Students are required to take the Standardized Advanced Placement examination upon completion of the course.

PREREQUISITE: Algebra, Geometry, Chemistry, Biology, demonstrated ability and/or teacher recommendation.

DESCRIPTION: This course provides a study of the development and application of chemistry principles and concepts. The content includes, but is not limited to, that determined by the Advanced Placement Program. Laboratory investigations of selected topics in the content, which also include the use of the scientific method, measurement, laboratory apparatus and safety, are an integral part of the course.

TITLE: AICE MARINE SCIENCE AS LEVEL

LEVEL: Accelerated GRADE: 11- 12 CREDIT: 1 TYPE: ~~R, AS, C~~

CATEGORY: MATH & SCIENCES/GROUP A

SPECIAL NOTE: Students are required to take the Cambridge examination upon completion of the course.

PREREQUISITE: DESCRIPTION: Marine Science provides a coherent and stimulating introduction to the science of the marine environment. The content of the AS part of the course concentrates on the scientific study of the sea and its ecosystems, while the A Level part of the course concentrates on human activities that depend on the sea and have an impact on it. A and AS Level Marine Science can form part of an ideal subject combination for students who want to study Marine Biology or Environmental Science at university or to follow a career in shipping, fisheries, tourism or aquaculture.

TITLE: ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

LEVEL: Accelerated GRADE: 10-12 CREDIT: 1 TYPE: AS, E, C

SPECIAL NOTE: This is a laboratory-oriented course. Students are required to take the Standardized Advanced Placement examination upon completion of the course.

PREREQUISITE: Biology, Chemistry, completion in Geometry, and teacher recommendation

DESCRIPTION: This course provides students with the opportunity to understand the following concepts: scientific analysis; interdependence of earth's systems; fundamental principles and

concepts; human population dynamics; renewable and nonrenewable resources: distribution, ownership, use degradation; environmental quality; global changes and their consequences; environment and society: trade-offs and decision making; and choices for the future. Laboratory investigations and research of selected topics in the content, which include the use of the scientific method, measurement, laboratory apparatus, and safety procedures, are an integral part of the course.

TITLE: ADVANCED PLACEMENT PHYSICS B

LEVEL: Accelerated GRADE: 11-12 CREDIT: 1 TYPE: AS, C

PREREQUISITE: Physics I Honors and either Pre- Calculus or Trigonometry

DESCRIPTION: The purpose of this course is to provide a systematic introduction to the main principles of classical and modern physics and emphasize the development of problem-solving ability. The content should include, but not be limited to the content specified by the Advanced Placement Program. Laboratory investigations of selected topics in the content, which also include the use of scientific method, measurement, laboratory apparatus, and safety procedures, are an integral part of this course.