



Students going into Grade 11 and 12 have a lot of choices for Science. Here are some reasons why you might want to take 4 years of Science:

- All science courses at our school meet NCAA requirements
- You need 4 years of science for Academic and/or STEM honors
- Many colleges and universities suggest that you take 4 years
- Science is hands-on, interactive and lots of FUN!!

Please look at the course descriptions below to help make your choice.

#### **Courses with Biology as Prerequisite**

**Human Physiology** - In this class we will study the structures (anatomy) and functions (physiology) of the human organism. The functions of blood, circulation, respiration, nutrition, digestion, metabolism, muscular, nervous and reproductive systems in maintaining homeostasis are studied and the diseases associated with loss of homeostasis.

**Integrated Science** - In this class we will study Life, Physical and Earth Science by planning and carrying out investigations, developing and using models and engaging in arguments from evidence.

**Forensic Science** - In this class you will be given case studies and mock crime scenes to investigate. You will use modern forensic techniques such as polymerase chain reaction, DNA isolation and electrophoresis.

#### **Courses with Other Prerequisites**

**Chemistry** - In chemistry we study what everything in the universe is made up of. We will learn about chemical reactions, nuclear radiation, acids and bases, and much more. We do lots of fun hands-on labs and activities! If you are interested in taking either of the AP science courses that are offered you need to take chemistry. You should have already completed Algebra 2 or be taking it at the same time as Chemistry.

**Physics** - In physics we study motion. We will learn about how things move, why they move, and learn to model and predict where they are going to land. If you've ever wanted to throw something off the third floor (for science!), this is the class for you. You need to have a foundation in Trigonometry, so make sure you have taken that class or are taking it at the same time as Physics.

**AP Environmental Science** - We study the interaction between humans, plants and animals and their ecosystems. We will study environmental issues around the world but will especially focus on native Hawaiian species and Hawaiian cultural practices. You can earn college credit if you pass the AP test. You should have already completed Biology and Chemistry (or be currently enrolled in Chemistry).

**AP Biology** - We study cells, genetics, DNA, Ecology, Biotechnology and much more!! Similar to 10th grade biology but more in depth. We do lots of labs in this class too. You can earn college credit if you pass the AP test. You should have already completed Biology and Chemistry (or be currently enrolled in Chemistry).