

(BS=3.0,ET=0.0,MA=0.0)

Scope:

2013-1

Offerings:

2014-1 2015-1

Genetics is the science of heredity. It is concerned with the physical and chemical properties an organism's genome, how the genome is transmitted from one generation to the next, and how genes are expressed in the development and function of an organism. Heredity is the process by which all living things produce offspring like themselves. This capacity for self-reproduction involves the transmission from parent to offspring of genetic information. This course is intended to develop an understanding the basic principles of genetics and to develop an ability to apply these principles to solve problems involving heredity. These genetic principles are built on a foundational understanding of DNA structure and replication, as well as basic cellular processes such as transcription and translation. Students will learn basic Mendelian genetics and progress to more complex genetic problems. These principles will be applied in the laboratory through the completion of a Mendelian genetics project.

Lessons: 36 @ 55 min (2.500 Att/wk) **Labs:** 4 @ 55 min

Special Requirements:

All cadets will complete a Mendelian Project.

Corequisite(s):

CH375