1

Earth and Planetary Science (EPS)

EPS 3 The Water Planet 2 Units

Department: Earth and Planetary Science Course level: Undergraduate Terms course may be offered: Fall, spring and summer Grading: Letter grade.

Hours and format: 2 hours of Lecture per week for 15 weeks. 3.5 hours of Lecture per week for 8 weeks.

An overview of the processes that control water supply to natural ecosystems and human civilization. Hydrologic cycle, floods, droughts, groundwater. Patterns of water use, threats to water quality, effects of global climate change on future water supplies. Water issues facing California.

Formerly known as Geology 3.

EPS 8 Geologic Record of Climate Change 3 Units

Department: Earth and Planetary Science

Course level: Undergraduate

Terms course may be offered: Fall, spring and summer Grading: Letter grade.

Hours and format: 3 hours of Lecture per week for 15 weeks. 8 hours of Lecture per week for 6 weeks.

This course will review the geologic record of climate change emphasizing how such knowledge can constrain present day thinking about (and predictive models of) future climate change. We will cover the entire spectrum of climate variations, from the formation of the Earth's early atmosophere 4.6 billion years ago to the ice ages to the development of instrumental records.

Formerly known as Geology 8.

EPS C12/ASTRON C12/L & S C70T The Planets 3 Units

Department: Earth and Planetary Science; Astronomy; Letters and Science

Course level: Undergraduate

Terms course may be offered: Fall, spring and summer

Grading: Letter grade.

Hours and format: 3 hours of Lecture per week for 15 weeks. 7.5 hours of Lecture per week for 6 weeks.

A tour of the mysteries and inner workings of our solar system. What are planets made of? Why do they orbit the sun the way they do? How do planets form, and what are they made of? Why do some bizarre moons have oceans, volcanoes, and ice floes? What makes the Earth hospitable for life? Is the Earth a common type of planet or some cosmic quirk? This course will introduce basic physics, chemistry, and math to understand planets, moons, rings, comets, asteroids, atmospheres, and oceans. Understanding other worlds will help us save our own planet and help us understand our place in the universe.

EPS W12/ASTRON W12 The Planets 3 Units

Department: Earth and Planetary Science; Astronomy

Course level: Undergraduate

Term course may be offered: Summer Grading: Letter grade.

Hours and format: 6 hours of Web-based lecture per week for 8 weeks. This is an online course.

A tour of the mysteries and inner workings of our solar system. What are planets made of? Why do they orbit the sun the way they do? How do planets form, and what are they made of? Why do some bizarre moons have oceans, volcanoes, and ice floes? What makes the Earth hospitable for life? Is the Earth a common type of planet or some cosmic quirk? This course will introduce basic physics, chemistry, and math to understand planets, moons, rings, comets, asteroids, atmospheres, and oceans.