

# General Science (GSC)

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Prerequisites for courses in this department are not automatically waived for College Guest students and students with a bachelor's degree or higher from a U.S. institution.

## **GSC 1530 Introductory Geology .....4 Credit Hours**

**English/ESL Placement:** Placement into ENG 1510 or ESL 2520.

This laboratory science course examines the processes that shape the Earth. Topics addressed include plate tectonic theory; rock and mineral formation and identification, igneous, metamorphic and sedimentary rock forming processes; weathering and soils; mass wasting; groundwater and stream processes; deserts and glaciers; global change; rock deformation, and energy and mineral resources. Two field trips, one half-day and one full-day are required. BILLABLE CONTACT HOURS: 5

**GE Outcomes:** Critical Thinking, Scientific Literacy

## **GSC 1580 Astronomy ..... 4 Credit Hours**

**English/ESL Placement:** Placement into ENG 1510 or ESL 2520.

This is a science lecture demonstration course with accompanying lab experiences and field trips. This course involves the study of the earth, the moon, the planets, the solar system, the sun, the stars, the galaxy, galaxies, the universe, and related topics of special interest. BILLABLE CONTACT HOURS: 6

**GE Outcomes:** Critical Thinking, Scientific Literacy

## **GSC 1590 Cosmology ..... 4 Credit Hours**

**English/ESL Placement:** Placement into ENG 1510 or ESL 2520.

The student will be able to apply basic astronomical concepts and relevant mathematics to acquire more in-depth knowledge about some of the following topics: the solar system, stellar formation and evolution, galactic evolution extraterrestrial intelligence and cosmology. BILLABLE CONTACT HOURS: 4

**GE Outcomes:** Critical Thinking, Scientific Literacy

## **GSC 1620 Introduction to Environmental Geology ..... 4 Credit Hours**

**English/ESL Placement:** Placement into ENG 1510 or ESL 2520.

This laboratory science course introduces the student to how geological processes affect people and their physical environment. Topics covered include the hazards associated with earthquakes, volcanic eruptions, floods and landslides, the effect of volcanism on local and global climates, the formation and exploitation of water, soil, mineral and energy resources, the disposal of wastes and accompanying pollution; the link between geology and human health, and land use planning. BILLABLE CONTACT HOURS: 5

**GE Outcomes:** Critical Thinking, Scientific Literacy