Are you interested in studying the earth or the physical and chemical properties of objects?

**CONSIDER EXPLORING:**

**ASTRONOMY:** This major allows students to work with scientists who explore the structure of matter and how it organizes itself by observing the most elemental forms of nature and how they behave in both inner and outer space.

**BIOPHYSICS:** This major provides a solid foundation in both the biological sciences and the fundamental concepts of classical and quantum physics through a variety of tools that include abstract thought, experimentation and observation, data analysis, and mathematical modeling.

**CHEMISTRY:** This major provides students with core instruction and excellent research opportunities, including the opportunity to engage in a research project with scientists in the Chemistry department. Areas of focus include: Research, Chemical Nanoscience, or Chemical Biology.

**EARTH SCIENCES:** This Bachelor of Arts degree includes a spectrum of disciplines focused on understanding the processes that influence the tectonics and environment of the planet.

**GEODESIGN:** An interdisciplinary major that brings together science, policy and architecture, GeoDesign challenges students to use spatial information set in the context of the built environment and policy. Skills learned are particularly useful for sustainable planning, the design of healthy communities, and addressing the impact of population growth on the environment.

**GEOLOGICAL SCIENCES:** This major is more intensive than the BA program and includes a spectrum of disciplines focused on understanding the processes that influence the tectonics and environment of the planet.

**PHYSICS:** This major provides a solid foundation in the fundamental concepts of classical and quantum physics through a variety of tools that include abstract thought, experimentation & observation, data analysis, and mathematical modeling.

**PHYSICS/COMPUTER SCIENCE:** This major is intended for students with dual interests in physics and computer science who wish to complete the essential courses for both majors within four years. It prepares students for a career in a computer-related field and/or science research.
Enhance your degree with a related minor, or delve deeper by getting involved with one of our centers and institutes.

**Physical Sciences**

**Minors & Institutes**

- **CHEMISTRY**
  - Center for Dark Energy Biosphere Investigations (C-DEBI)
- **GEOBIOLOGY**
  - Center for Quantum Information Science and Technology
- **GEOHAZARDS**
  - Loker Hydrocarbon Research Institute
- **ENVIRONMENTAL CHEMISTRY AND SUSTAINABILITY**
- **HUMAN SECURITY AND GEOSPATIAL INTELLIGENCE**
  - Southern California Earthquake Center
- **PHYSICS**
  - Space Science Center
- **SPATIAL STUDIES**
  - Spatial Sciences Institute
- **NATURAL SCIENCE**
  - USC Michelson Center for Convergent Biology–Bridge Institute