

EARTH SCIENCE

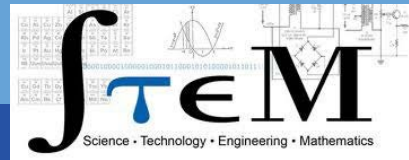
The Earth Science Department of Santa Monica College houses **Anthropology, Astronomy, Geology, and Geography.**

Our academic programs prepare students to better understand the origin and development of the universe, Earth, and life, the complex interactive nature of the Earth processes and the impact of human activities on our environment.



Median Annual Wage

Professor.....	\$87,450
Oceanographer.....	\$90,890
Environmental Scientist.....	\$63,570
Planetary Scientist.....	\$82,500
Petroleum Geologist.....	\$161,892
Cartographer.....	\$57,440
Seismologist.....	\$67,470
GIS Specialist.....	\$41,157
Anthropologist/Archaeologist.....	\$57,420
Geographer.....	\$74,760
Geoscientist.....	\$90,890
Astronomer/Astrophysicist.....	\$106,360
Meteorologist.....	\$92,423
Climatologist.....	\$89,260



For more information about the SMC/UCLA Science and Research Initiative Program checkout the STEM webpage: www.smc.edu/stem

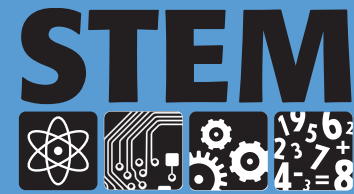
You can visit the STEM office in LS 122 or email: stem@smc.edu

SMC Earth Science Department
www.smc.edu/academicprograms/earthscience/

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Science, Technology, Engineering & Mathematics



SMC/UCLA Science & Research Initiative

EARTH SCIENCE

Earth Science



GEOLOGY

Introductory Courses at SMC:

- Geology 3: Environmental Geology
- Geology 4: Physical Geology with Lab
- Geology 5: Historical Geology with Lab
- Geology 31: Physical Oceanography

Geologists study rocks on Earth and other planetary bodies to understand evolution of planets, climate, and life. They are involved in anything from planetary exploration, resource exploration and management, climate science, geologic hazard (e.g., earthquakes, volcanoes, flood) planning and mitigation, and modeling of the interior Earth.

Career Opportunities:

- Paleoclimatologist
- Oceanographer
- Geophysicist
- Geochemist
- Petroleum Geologist
- Mineralogist



GEOGRAPHY

Introductory Courses at SMC:

- Geography 3: Introduction to Weather
- Geography 5: Physical Geography with Lab
- Geography 7: Environmental Studies
- Geography 20: Introduction to GIS

Geographers study the Earth's natural environment, surroundings, and human society. Sub-disciplines of Geography in STEM include; Physical Geography, Geographic Information Systems (GIS), and Meteorology. Geography includes fieldwork and computed data analysis for research, with those results helping geographers to better understand the environment and the world around us.

Career Opportunities:

- Meteorologist
- Spatial Statistics
- Remote Sensing
- Environmentalist
- GIS Specialist
- Naturalist



ANTHROPOLOGY

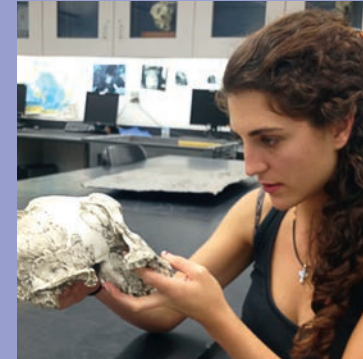
Introductory Courses at SMC:

- Anthropology 5: Physical Anthropology with Lab
- Anthropology 9: Paleoanthropology
- Anthropology 10: Forensic Anthropology

Physical anthropologists examine the origin, development and organization of humans from both a biological and behavioral perspective. Anthropology is the most comprehensive discipline to examine the framework of human existence.

Career Opportunities:

- Paleoanthropologist
- Primatologist
- Geneticist
- Museum Curator
- Forensic Anthropologist



ASTRONOMY

Introductory Courses at SMC:

- Astronomy 3: Stellar Astronomy with Lab
- Astronomy 4: Solar System Astronomy with Lab
- Astronomy 8: Introduction to Astrophysics
*Requires Math 2

Astronomers study the solar system, stars, galaxies, and space using principles of physics and mathematics. Astronomers study planets, stars, novas, and colliding gases between stars in an attempt to determine how they were formed, what they are made of, and how they change.

Career Opportunities:

- Observatory or Planetarium Director
- Solar Researcher
- Satellite Communications/Recon
- Space Program Engineer
- Atmospheric Scientist