

Program Learning Outcomes Natural Sciences

The goal of the Natural Sciences major is to provide students with a broad preparation in all of the natural sciences including advanced studies in two sciences.

Graduates of the UC Davis Natural Sciences program should be able to:

1. Apply the fundamental principles of mathematics, biology, chemistry, earth science, and physics to address scientific problems.
2. Understand how science works via inquiry, observation, verification, inductive and deductive reasoning, and critical thinking.
3. Communicate scientific concepts effectively through written, oral, and visual representation.
4. Understand the tenets of professional, ethical, or responsible conduct as a scientist.
5. Use their understanding of matter and energy to analyze scientific problems.
6. Understand the chronology of life on Earth and the fundamentals of biological evolution.
7. View Earth as a dynamic system of solid, liquid, gaseous and living components, connected through the cycling of matter and energy.