

# UNIVERSITY OF CALIFORNIA, RIVERSIDE

## Student Learning Outcomes for the B.S. in Geophysics

Students completing the B.S. major will be able to:

- 1) Development of disciplinary knowledge – graduates will have mastered a broad set of topics in Mathematics, Chemistry, Physics, Geophysics and broader Earth Sciences, including fundamentals of the Earth's composition, history, physical state, and climate.
- 2) Lab/field/computer skills - graduates will have acquired both cutting-edge and classical skills in field, laboratory, and computer/analytical techniques in Geology/Geophysics.
- 3) Oral/written presentation skills - graduates will have mastered written and oral communication skills, and will be able to work effectively both individually and in groups.
- 4) Ability to apply and synthesize information - graduates will be able to apply, synthesize, and evaluate their knowledge and skills to quantitatively solve novel problems in Geology/Geophysics over a wide range of spatial and temporal scales.
- 5) Ability to articulate science-based views of Earth processes - graduates will demonstrate the ability to understand and articulate a science based view of physical processes.
- 6) Ability to make critical personal/professional judgments based on their scientific understanding.

Program Website: [http://earthscience.ucr.edu/geophysics\\_major.html](http://earthscience.ucr.edu/geophysics_major.html)