Bachelor of Science (B.S.) in Geology

1. All of the following courses in Geology:
   - GEOL 2010, 2040, 3010, 3020, 3030, 3040, 3070, 3090, 4090, 4908
   - Three additional courses selected from the following: GEOL 3080, 4010, 4020, 4050, 4060, 4770, 4810

2. The following cognates are required:
   - CHEM 1000, 1100
   - MATH 2010 or 2510
   - PHYS 2110 or 2210

3. The following additional courses are strongly recommended for students planning graduate studies:
   - CHEM 1600
   - MATH 2020 or 2520
   - PHYS 2120 or 2220

Science Teacher Preparation Program
CSUB has developed a degree program, the Bachelor of Arts in Natural Sciences, to prepare prospective science teachers for subject matter certification in California via the California Subject Matter Examinations for Teachers (CSET) in Science. See the catalog section under Natural Sciences for information about this degree program. Additional information may be obtained from the Geological Sciences Department office (661-654-3027).

Confirm required classes with a geology advisor.

Requirements for the Minor in Geology
A minor in Geology is available, consisting of 16 units, at least 8 of which must be in upper division courses that count toward the major. One lower division course must be GEOL 1009 or 1209 or 2010. The other must be GEOL 2040. The upper division courses then available without other prerequisites are GEOL 3040, 3080, and 4050.

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Career Opportunities

This is an exciting time to be a geologist. In today’s economy, there is a high demand for trained geoscientists. Students who graduate from CSUB with a degree in Geology generally find rewarding employment in their field. Many CSUB Geology majors continue their studies in top graduate programs around the world and go on to pursue challenging careers in various fields, including:

- Petroleum and minerals exploration
- Environmental consulting
- Scientific and technical consulting
- Water resources
- Land use management
- Waste disposal management
- Geotechnical engineering
- Secondary school science education

Faculty

- Dr. Dirk Baron, Department Chair (Hydrogeology, Geochemistry)
- Dr. Janice Gillespie (Petroleum Geology, GIS)
- Dr. Anthony Rathburn (Paleontology, Marine Geology)
- Dr. William C. Krugh (Geomorphology, Tectonics, Structural Geology)
- Dr. Junhua Guo (Sedimentology, Paleoclimatology)
- Dr. David Miller (Structure, Petrology, Sedimentology)
- Dr. Katie O’Sullivan (Petrology, Planetary Geology)

Emeritus Faculty

- Dr. Robert Horton (Sedimentary Petrology)
- Dr. Robert Negrini (Geophysics, Paleoclimatology)
- Dr. John Coash (Geomorphology)

“I can’t say enough positive things about CSUB’s Geology Department. My education there has served me incredibly well. The faculty and staff take advantage of the amazing California geology, diverse local industry, abundant research opportunities, and their own expertise to provide a great academic experience for students. I would (and do!) recommend CSUB Geology to anyone.”

- Anne Draucker, B.S. 2003, M.S. 2007

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