Geological Sciences Degree Requirements

Bachelor of Arts (B.A.) in Geology
1. All of the following courses in Geology:
   - GEOL 201, 204, 303, 306, 307, 309, and 490
   - One additional five-unit course in Geology (GEOL 100 may not be used for this requirement)
2. A minimum of 6 courses (30 units) in cognate areas:
   - MATH 191 & either MATH 192 or MATH 140
   - CHEM 211, 212
   - PHYS 201, 202
3. A minor (20 units) approved by your advisor or Department Chair. Courses required as cognates for the major cannot count toward the minor.

Bachelor of Science (B.S.) in Geology
1. All of the following courses in Geology:
   - GEOL 201, 204, 303, 306, 307, 309, 310 or 325, 490, 495
   - Three courses selected from the following list: GEOL 205, 305, 308, 420, 450, 460, 475, 477, 480 or 577 (at least one of the courses must be 400 or 500 level)
2. The following cognates are required:
   - CHEM 211, 212
   - PHYS 201 and 202, or PHYS 221 and 222
   - MATH 201, 202, and 140
3. The following courses are strongly recommended for students planning graduate studies:
   - CHEM 213
   - PHYS 223
   - BIOL 103, 201

Requirements for the Minor in Geology
A minor in Geology is available, consisting of 20 units, at least 10 of which must be in upper division courses that count toward the major. However, only one of the following courses may be counted toward the Minor in Geology: GEOL 100 or GEOL 201.

Science Teacher Preparation Program
CSUB offers a Bachelor of Arts degree in Natural Science. Completion of the following course work satisfies the requirements for a Secondary Teaching Credential in Science and leads to a Natural Science B.A. with a Primary Concentration (major) in Geology and a secondary concentration (minor) in Physics, Biology, or Chemistry. Please refer to the Natural Sciences (Science Teaching) major sheet for more information.

The department has several scholarship funds specifically targeted for outstanding geology students.
Career Opportunities

This is an exciting time to be a geologist. In today’s economy, there is a high demand for trained geoscientists, and 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. Robert Horton, Department Chair (Sedimentary Petrology)
- Dr. Dirk Baron (Hydrogeology, Geochemistry)
- Dr. Janice Gillespie (Petroleum Geology, GIS)
- Dr. Robert Negrini (Geophysics, Paleoclimatology)
- Dr. Graham Andrews (Structural Geology, Petrology)
- Dr. William C. Krugh (Neotectonics, 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
  Geologist, Chevron