Geology is the study of the Earth – both the surface and the inside. Geologists use all of this research and knowledge to find useful minerals, oil, groundwater and other natural resources. They also locate stable places for human structures, like bridges, highways or buildings. This is a good career for people who like the outdoors, since fieldwork is an important part of a geologist’s job. Most programs take four years, but many students find it takes up to five years to complete their studies. At least two years are spent studying math, physics, chemistry, introductory engineering, English, the humanities and social science. To name a few careers associated with geology are geophysicists, geochemists, mineralogists, paleontologists, and geomorphologists. Graduates with a bachelor’s degree in geology receive an average starting salary of about $30,900 a year taken from the reports of the 1997 Occupational Outlook Handbook (OOH). The federal government's average salary for geologists in managerial, supervisory, and nonsupervisory positions was $59,700 taken from the same survey. The range in the petroleum industry, with a master of science degree, is $45,000 to $50,000.

GENERAL INFORMATION
Not all universities with this major are listed below. The lower division core preparation is listed for universities with which LBCC has established articulation agreements. As requirements do change, please check WWW.ASSIST.ORG for the most current articulation information. Moreover, please see a counselor to develop an accurate educational plan to ensure your competitiveness for admissions for your school(s) of choice. To thoroughly understand admissions and general education requirements please check the catalog of the transfer university. CSU/UC admissions and general education requirements are outlined on a separate curriculum guide.

*** Schools are listed in alphabetical order ***

CSU CHICO
- **B.S. Degree – Geosciences (Geology option)**
  Chem 1A; Geol 1 or 1H or 2 + 2L, 3H; Math 60, 70 or Stat 1 or 1H; Phys 2A + 2B or Phys 3A + 3B + 3C

CSU DOMINGUEZ HILLS
- **B.S. Degree – Geology (Geology option)**
  Chem 1A, 1B; Geol 1 or 2+2L, 3; Math 47 + Stat 1 or Math 60 + 70; Phys 2A + 2B or 3A + 3B

CSU FULLERTON
- **B.S. Degree – Geological Sciences**
  Bio 1A + 1B; Chem 1A, 1B; Geol 1 or 1H, 3H; CBIS 2 or Engr 54 or Math 64; Math 60, 70; Phys 2A, 2B or 3A, 3B, 3C and additional course from the following: CBIS 37, Engr 3A + 3B; Math 80, 84, Phys 3B or 3C (if not used as physics requirement)

SEE REVERSE SIDE FOR ADDITIONAL REQUIREMENTS
CSU HAYWARD

- **B.A. Degree – Geology** (Designed for students who do not plan to become professional geologists or go on to graduate work)
  Chem 1A + 1B; Geol 2 + 2L; Phys 2A + 2B

- **B.S. Degree – Geology** (Serves as preparation for employment in the field or for those who plan on graduate study)
  Chem 1A + 1B; Geol 2 + 2L; Math 60; Phys 2A + 2B or 3A + 3B + 3C

CSU LONG BEACH

- **B.S. Degree – Geological Sciences**
  
  **General Geology Emphasis**
  Bio 41 + 41L or 41H + 41L; Chem 1A + 1B; Geol 1 or 1H or 2 + 2L, 3 or 3H; Math 60, 70; Phys 3A + 3B
  
  **Geochemistry/Mineralogy-Petrology Emphasis**
  Bio 41 + 41L or 41H + 41L; Chem 1A + 1B; Geol 1 or 1H or 2 + 2L, 3 or 3H; Math 60, 70, 80; Phys 3A + 3B
  
  **Petroleum Geology Emphasis**
  Bio 41 + 41L or 41H + 41L; Chem 1A + 1B; Geol 1 or 1H or 2 + 2L, 3 or 3H; Math 60, 70, 80; Phys 3A + 3B
  
  **Structural Geology/Tectonics Emphasis**
  Bio 41 + 41L or 41H + 41L; Chem 1A + 1B; Geol 1 or 1H or 2 + 2L, 3 or 3H; Math 60, 70, 80; Phys 3A + 3B

- **B.S. Degree – Earth Sciences**
  
  **Geohydrology/Environmental Geology Emphasis**
  Bio 2; Chem 1A, 1B; Engr 35; Geol 1 or 1H or 2 + 2L, 3 or 3H; Math 60, 70, 80; Phys 3A + 3B
  
  **Engineering Geology Emphasis**
  Bio 41 + 41L or 41H + 41L; Chem 1A, 1B; Engr 35; Geol 1 or 1H or 2 + 2L, 3 or 3H; Math 60, 70, 80; Phys 3A + 3B
  
  **Exploration Geophysics Emphasis**
  Bio 41 + 41L or 41H + 41L; Chem 1A; Geol 1 or 1H or 2 + 2L, 3 or 3H; Math 60, 70, 80; Phys 3A + 3B
  
  **Marine Geology/Oceanography Emphasis**
  Bio 41 + 41L or 41H + 41L; Chem 1A, 1B; Geol 1 or 1H or 2 + 2L, 3 or 3H; Math 60, 70, 80; Phys 3A + 3B

CSU SACRAMENTO

- **B.A. Degree – Geology**
  Chem 1A; Math 50, 60; Phys 2A or 3A

- **B.S. Degree – Geology**
  Chem 1A, 1B; Math 60, 70, 80; Phys 2A, 2B or 3A, 3C

SEE NEXT PAGE FOR ADDITIONAL REQUIREMENTS
CSU SAN BERNARDINO

- **B.A. Degree – Geology**
  Bio 1A; Geol 2 + 2L, 3H; Math 60; Chem 1A or 3A; Phys 2A + 2B or 3A + 3B + 3C

HUMBOLDT STATE

- **B.A. Degree – Geology**
  Chem 1A, 1B; Geol 1 or 1H or 2 & 2L; Math 60, 70; Phys 2A + 2B or Phys 3A + 3B + 3C;
  Stat 1 or 1H or Math 80;

- **B.S. Degree – Geology**
  Chem 1A, 1B; Geol 1 or 1H or 2 & 2L; Math 60, 70; Phys 2A + 2B or Phys 3A + 3B + 3C;
  Stat 1 or 1H or Math 80

SAN JOSE STATE UNIVERSITY

- **B.S. Degree – Geology**
  Chem 1A, 1B; Geol 2 + 2L, 3H; Math 60, 70; Phys 3A, 3B or 3C.

  **Note:** San Jose State University’s general geology/lab and historical geology are required upper division courses for the major. Thus, LBCC’s Geol 2+2L and 3H will be given content credit only.

UC BERKELEY

- **A.B. Degree – Geology**
  This major is offered by the College of Letters and Science (L&S). You must complete either the L&S Essential Skills Requirements (Reading & Comp, Foreign Language, and Quantitative Reasoning) OR IGETC by the end of the spring term that precedes fall enrollment at Berkeley.

  **Requirements:** Chem 1A, 1B; Geol 2 + 2L, Math 60, 70; Phys 3A, 3B

UC DAVIS

- **A. B. Degree – Geology**
  Chem 1A + 1B; Geol 1 or 1H or 2 + 2L, 3 or 3H; Math 60, 70; Phys 2A + 2B, Stat 1 or 1H

- **B.S. Degree – Geology**
  **General Geology Option**
  Chem 1A + 1B; Geol 1 or 1H or 2 + 2L, 3 or 3H; Math 60, 70, 80; Phys 2A + 2B or 3A + 3B + 3C*
  **Recommended:** Math 84, 85, Physics 3A+3B+3C (instead of Physcis 2A+2B)

  **Geochemistry/Petrology Option**
  Chem 1A + 1B; Geol 1 or 1H or 2 + 2L, 3 or 3H; Math 60, 70, 80; Phys 3A + 3C
  **Recommended:** Math 84, Phys 3B

  **Quantitative/Geophysics Option**
  Chem 1A + 1B; Geol 1 or 1H or 2 + 2L, 3 or 3H; Math 60, 70, 80, 84; Phys 3A + 3B + 3C
  **Recommended:** Math 85

SEE REVERSE SIDE FOR ADDITIONAL REQUIREMENTS
UC RIVERSIDE

- **B.S. Degree –Geology**
  Students selected for this major will need to present an overall grade point average of at least 2.70 in all UC transferable course work.

  **Biogeography Option**
  Bio 1A + 1B; Chem 1A + 1B; Geol 1 or 1H or 2 + 2L, 3H; Math 60 + 70, Phys 3A + 3B

  **General Geology Option**
  Bio 1A or 41 + 41L or 41H + 41L; Chem 1A + 1B; Geol 1 or 1H or 2 + 2L; Math 60 + 70, Phys 3A + 3B

  **Geobiology Option**
  Bio 1A or 41 + 41L or 41H + 41L; Chem 1A + 1B; Geol 1 or 1H or 2 + 2L; Math 60 + 70, Phys 3A + 3B

UC SANTA CRUZ

- **B.A. Degree –Earth Sciences**
  Chem 1 A + 1B; Geol 1 or 1H; Math 60 + 70; Phys 3A + 3B + 3C

- **B.S. Degree –Earth Sciences**
  Chem 1 A + 1B; Geol 1 or 1H; Math 60 + 70 + 80; Phys 3A + 3B + 3C

- **B.S. Degree –Earth Sciences [Environmental Geology (option)]**
  Bio 1A + 1B; Chem 1A + 1B; Geol 1 or 1H; Math 60 + 70, Phys 3A + 3B + 3C

- **B.S. Degree –Earth Sciences [Ocean Sciences (option)]**
  Bio 1A + 1B; Chem 1A + 1B; Geol 1 or 1H; Math 60 + 70, Phys 3A + 3B + 3C
  Geol 1 or 1H, 2 & 2L, 3H; Bio 1A &1B, 41 OR 41H; Chem 1A & 1B; Math 60, 70; Phys 3A & 3B