# Geology, B.S. (120 Units)

Valid for Catalog Years: 2018/2019 to Present

*Official planning guide approved by the College of Science & Math

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## General Education

### Milestones

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<td>CHEM 1A</td>
<td>EES 12</td>
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<tr>
<td>EES 30 &amp; MATH 75</td>
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### A1 (3 Units)
Oral Communication
*Must pass with a C or better

### A2 (3 Units)
Written Communication
*Must pass with a C or better

### A3 (3 Units)
Critical Thinking
*Must pass with a C or better

### C1 (3-4 Units)
Arts

### C2 (3-4 Units)
Humanities

### D1 (3 Units)
American History

### D2 (3 Units)
American Government

### B2 (3-4 Units)
Life Sciences

### C1/C2 (3-4 Units)
Arts or Humanities

### D3 (3 Units)
Social Science

### IC (3-4 Units)
Arts & Humanities

### E1 (3 Units)
Lifelong Understanding & Self Development

### ID (3-4 Units)
Social, Political, & Economic Institutions

## Major

### GE Area B1
CHEM 1A (3 Units)
Physical Sciences
[Pre-Req: High school chemistry. May be taken concurrently: GE B4; CHEM 1AL]
*Not open to students with credit in CHEM 1B

### CHEM 1B (3 Units)
[Pre-Req: CHEM 1A & 1AL (both passed with a C or better); CHEM 1BL (may be taken concurrently)]

### GE Area B3
CHEM 1AL (2 Units)
Lab
[Pre-Req: CHEM 1A (may be taken concurrently)]

### CHEM 1BL (2 Units)
[Pre-Req: CHEM 1B (may be taken concurrently)]

### EES 12 (3 Units)
[Pre-Req: EES 1; CHEM 1A (may be taken concurrently)] OR instructor permission

### EES 30 (3 Units)
[Pre-Req: EES 1, 2 (may be taken concurrently)]

### EES 100 (4 Units)
[Pre-Req: CHEM 12 (concurrent enrollment recommended)]

### EES 101 (4 Units)
[Pre-Req: EES 100; EES 30 & CHEM 1B (may be taken concurrently)]

### EES 106 (4 Units)
[Pre-Req: EES 30, 101; MATH 75 (may be taken concurrently); PHYS 2A]

### UD Geology Elective (3 Units)
*Except EES 154, 155, and 168. No more than 1 unit of EES 160 may be used

### EES 199 (3 Units)
[Pre-Req: EES 102, 104, 106; Senior standing]

### EES 114, 117, 118, or 124 (3 Units)
*See course catalog for prerequisite requirements

### EES 105, 110, or 122 (3 Units)
*See course catalog for prerequisite requirements

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For assistance or to schedule an advising appointment, please contact the CSM Advising and Resources Center at 559-278-4150, Science I 136
Department of Earth & Environmental Sciences:
559-278-3086, Science II 114

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**Major**

- GE Area B4
- MATH 75 (4 Units)
- Quantitative Reasoning
- *See course catalog for prerequisite requirements

- EES 2 (3 Units)
- [Pre-Req: EES 1]

- EES 178 (3 Units)
- [Pre-Req: EES 1 or 4; MATH 75 recommended]

- EES 102 (3 Units)
- [Pre-Req: EES 30 (may be taken concurrently); EES 100]

- EES 105, 110, or 122 (3 Units)
- *See course catalog for prerequisite requirements

- EES 1 (4 Units)
- [Pre-Req: MATH 4R or second-year high school algebra recommended]

- PHYS 2A (4 Units)
- [Pre-Req: DS 71, MATH 75, MATH 70, or department permission]

- PHYS 2B (4 Units)
- [Pre-Req: PHYS 2A]

**Additional Graduation Requirements**

- UDWS (0-4 Units)
- *Upper Division Writing Exam OR "W" Course (must pass with a C or better)

- Elective

- MI (3 Units)
- Multicultural/International

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**FOOTNOTES:**

**Prerequisites/Corequisites:** Other restrictions may apply. Please see your course catalog for detailed prerequisite/corequisite requirements.

**Grade Requirements:** CR/NC is not permitted in the Geology major with the exception of EES 3, 30, 160; CHEM 1A, 1AL, 1B, 1BL; MATH 75; PHYS 2A, 2B.

**General Education:** Units in this area may be used toward a double major or minor (see double major or departmental minor). Consult the appropriate department chair, program coordinator, or faculty adviser for further information. CHEM 1A, 1AL, 1B, 1BL; MATH 75; PHYS 2A, and 2B may satisfy GE, or a minor, as appropriate.

**Electives (4 units):** Units in this area may be used toward a double major or minor. Students must earn a minimum of 120 units total to graduate. The number of required elective units may vary, depending on the amount of units earned from major and GE courses.

**EES 3:** No more than 1 unit will be permitted.

**Upper Division Writing Skills requirement (UDWS):** All undergraduate students must demonstrate competency in writing skills by passing the Upper Division Writing Exam (UDWE) or by obtaining a C or better in an approved upper division writing course, identified by the letter "W."

*Students planning to pursue graduate study in geology are strongly encouraged to take MATH 76 or EES 177.

**Substitutions:** If substitutions/exceptions/waivers are made for any major courses that also meet GE and/or the Multicultural/International graduation requirement, the student is responsible for completing additional courses to satisfy the respective areas (GE and/or MI). This also includes the upperdivision writing requirement.