# Environmental Sciences, B.S. (120 Units)

Valid for Catalog Years: 2018/2019 to 2020/2021

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

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<tr>
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<td><strong>Units</strong></td>
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<tr>
<th>Milestones</th>
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<tbody>
<tr>
<td>A2 (3 Units)</td>
<td>Written Communication</td>
<td>EES 4 (4 Units) [Pre-Req: GE B4]</td>
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<tr>
<td>A1 (3 Units)</td>
<td>Oral Communication</td>
<td>C1 (3-4 Units)</td>
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<tr>
<td>A3 (3 Units)</td>
<td>Critical Thinking</td>
<td>C1/C2 (3-4 Units)</td>
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<td>*Must pass with a C or better</td>
<td>*Must pass with a C or better</td>
<td>Arts or Humanities</td>
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<thead>
<tr>
<th>General Education</th>
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<tbody>
<tr>
<td>EES 105 (3 Units)</td>
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<tr>
<td>GE Area B1</td>
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<tr>
<td>CHEM 1A (3 Units)</td>
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<tr>
<td>Physical Sciences</td>
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<tr>
<td>[Pre-Req: High school chemistry. May be taken concurrently: GE B4; CHEM 1AL]</td>
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<tr>
<td>*Not open to students with credit in CHEM 1B</td>
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<td>GE Area D3</td>
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<tr>
<td>PLSI 71 (3 Units)</td>
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<tr>
<td>Social Science</td>
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<td>GE Area B2</td>
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<td>BIOL 1A (4 Units)</td>
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<td>Life Sciences</td>
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<td>BIOL 1B (3 Units)</td>
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<td>[Pre-Req: BIOL 1A; first-time enrollees must take BIOL 1BL concurrently]</td>
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<tr>
<td>BIOL 101 (4 Units)</td>
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<tr>
<td>[Pre-Req: BIOL 1A, 1B; PSYCH 42, MATH 101, or EES 178; MATH 70 or equivalent recommended]</td>
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<td>EES 108 (4 Units)</td>
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<td>[Pre-Req: BIOL 1A; CHEM 1B or CHEM 150; EES 1 or EES 4; PHYS 4B or PHYS 2B; MATH 75]</td>
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<td>ECON 117 (3 Units)</td>
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<td>[Pre-Req: EES 1; EES 30 (may be taken concurrently)]</td>
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<td>EES 109 (3 Units)</td>
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<td>[Pre-Req: BIOL 1A; CHEM 1B or 150; EES 1 or 4; PHYS 4B or 2B; MATH 75]</td>
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<td>CHEM 8 (3 Units)</td>
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<td>[Pre-Req: CHEM 1B or 3A]</td>
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<td>GE Area B3</td>
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<td>CHEM 1AL (2 Units)</td>
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<td>Lab [Pre-Req: CHEM 1A (may be taken concurrently)]</td>
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<td>EES 4 (4 Units)</td>
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<tr>
<td>[Pre-Req: GE B4]</td>
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<td>BIOL 1BL (1 Unit)</td>
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<td>[Pre-Req: First-time enrollees must take BIOL 1B concurrently]</td>
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<tr>
<td>EES 102, 110, 113, 114, 117, or 124 (3 Units)</td>
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<td>[See course catalog for prerequisite requirements]</td>
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<tr>
<td>EES 102, 110, 113, 114, 117, or 124 (3 Units)</td>
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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

Revised 3/2022
# Environmental Sciences, B.S. (120 Units)
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**Major**
- GE Area B4 (4 Units)
  - MATH 75
  - Quantitative Reasoning
  - *See course catalog for prerequisite requirements
- EES 1 (4 Units)
  - Pre-Req: MATH 4R or second-year high school algebra recommended
- CHEM 1BL (2 Units)
  - Pre-Req: CHEM 1B (may be taken concurrently)
- MATH 76, MATH 101, PSYCH 42, or EES 177 (3-4 Units)
  - Pre-Req: MATH 4R or second-year high school algebra recommended
  - *See course catalog for prerequisite requirements
- PHYS 2A or PHYS 4A & 4AL (4 Units)
  - Pre-Req: CHEM 1A (may be taken concurrently)
  - *See course catalog for prerequisite requirements
- PHYS 2B or PHYS 4B & 4BL (4 Units)
  - Pre-Req: CHEM 1A (may be taken concurrently)
  - *See course catalog for prerequisite requirements
- EES 12 (3 Units)
  - Pre-Req: EES 1, CHEM 1A (may be taken concurrently)
- EES 30 (3 Units)
  - Pre-Req: EES 1, 2 (may be taken concurrently) OR instructor permission
- EES 113, 117, or 124 (3 Units)
  - Pre-Req: EES 102, 104, 106; Senior standing
  - *See course catalog for prerequisite requirements
- EES 199 (3 Units)
  - Pre-Req: EES 102, 104, 106; Senior standing

**Additional Graduation Requirements**
- UDWS (0-4 Units)
  - Upper Division Writing Exam OR "W" Course (must pass with a C or better)
- MI (3 Units)
  - Multicultural/International

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

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 interested in physical aspects of Environmental Sciences should take MATH 76 or EES 177 in addition to PSYCH 42.

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.
### Environmental Sciences, B.S. (120 Units)
**Valid for Catalog Years: 2014/2015 to 2017/2018**

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#### General Education

- **A2 (3 Units)**
  - Written Communication
  - Must pass with a C or better
- **A1 (3 Units)**
  - Oral Communication
  - Must pass with a C or better
- **A3 (3 Units)**
  - Critical Thinking
  - Must pass with a C or better
- **C2 (3-4 Units)**
  - Humanities
- **C1 (3-4 Units)**
  - Arts
- **C1/C2 (3-4 Units)**
  - Arts or Humanities
- **IC (3-4 Units)**
  - Arts & Humanities
- **ID (3-4 Units)**
  - Social, Political, & Economic Institutions
- **D2 (3 Units)**
  - American Government
- **D1 (3 Units)**
  - American History
- **E1 (3 Units)**
  - Lifelong Understanding & Self Development
- **IB (3 Units)**
  - Physical Universe & Its Life Forms

#### 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
- **GE Area D3**
  - PLSI 71 (3 Units)
  - Social Science
- **GE Area B2**
  - BIOL 1A (4 Units)
  - Life Sciences
- **GE Area B1**
  - BIOL 1B (3 Units)
  - [Pre-Req: BIOL 1A; first-time enrollees must take BIOL 1BL concurrently]
- **BIOL 101 (4 Units)**
  - [Pre-Req: BIOL 1A, 1B; PSYCH 42, MATH 101; or EES 178; MATH 70 or equivalent recommended]
- **EES 105 (3 Units)**
  - [Pre-Req: EES 1; EES 30 (may be taken concurrently)]
- **ECON 117 (3 Units)**
  - *Prerequisite waived for Environmental Sciences majors*
- **CHEM 8 (3 Units)**
  - [Pre-Req: CHEM 1B or 3A]
- **CHEM 1B (3 Units)**
  - Pre-Req: CHEM 1A & 1AL (both passed with a C or better); CHEM 1BL (may be taken concurrently)
- **EES 4 (4 Units)**
  - [Pre-Req: GE B4]
- **BIOL 1BL (1 Unit)**
  - [Pre-Req: BIOL 1A; first-time enrollees must take BIOL 1B concurrently]
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<td>EES 30 (3 Units)</td>
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<td>MATH 75 (4 Units)</td>
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<td>(Pre Req: CHEM 1B (may be taken concurrently))</td>
<td>[Pre-Req: EES 1; CHEM 1A (may be taken concurrently)]</td>
<td>Quantitative Reasoning</td>
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<td>(2 Units)</td>
<td>CHEM 1BL</td>
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<td>Electives</td>
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<td>EES 113, 117, or 124 (3 Units)</td>
<td>EES 199 (3 Units)</td>
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<td>(Pre Req: EES 102, 104, 106; Senior standing)</td>
<td>[Pre-Req: GEOG 107 recommended]</td>
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<td>UDWS (0-4 Units)</td>
<td>*Upper Division Writing Exam OR &quot;W&quot; Course (must pass with a C or better)</td>
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