Our planet is more than meets the eye. Explore the history of Earth's climate, global change, ocean science and modern climate dynamics. Students who select the Bachelor of Science in Geosciences with an Earth, Oceans and Climate (EOC) emphasis are immersed in an interdisciplinary approach to the study of the planet. Students gain an understanding of the history of Earth's climate, global change, ocean science and modern climate dynamics. They learn scientific research skills and work with data and technology in the field and in the laboratory. EOC students participate in hands-on capstone research or field experience, typically in the latter part of their program. Graduates pursue careers in environmental geology and scientific research in fields such as oceanography, climate science, surficial processes, paleoclimate, paleoecology and more.

LEARNING OUTCOMES
- Be able to communicate effectively both orally and in writing
- Teamwork and leadership
- The basic structure of the Earth, and how this structure is known
- Theories for the origin of the Earth
- Be able to access information through traditional and new technologies
- Teaching and assisting others in learning
- Major events in the evolution of the Earth; Major events in the evolution of life on Earth
- Be able to critically evaluate information from multiple perspectives
- Involvement in campus and community service
- Understand the process of scientific inquiry
- Involvement in research
- The fundamentals of plate tectonics
- Exposure to career options and opportunities
- Understand the relationship of Geosciences to other areas of science and to society in general
- The nature and origin of each of the main types of sedimentary, igneous, and metamorphic rocks
- The nature and distribution of sedimentary environments on Earth
- The nature and significance of structures, such as folds, faults, and joints
- The first-order processes that shape the surface of the Earth (e.g., rivers, glaciers, mass wasting, wind, weathering, erosion)
- The nature and origin of mineral and hydrocarbon resources on Earth
- The possible linkages between human activities and our physical environment (e.g., global climate change).

Undergraduate Graduation Requirements
All course work and requirements for this degree must be completed prior to the date the degree is awarded. The University of Arizona requirements to follow in this audit are required for graduation and awarding of the degree.

Curriculum:
1. The University of Arizona and the Arizona Board of Regents have sole discretion over all curricula changes.
2. Courses, programs & requirements may be suspended, deleted, restricted, or changed in any manner, at any time.
3. Students must remain currently informed about all policies & other info that bears on completing a degree.

Required Units:
Additional units will be required to complete this degree if a student:
A) is admitted to the UA with deficiencies;
B) changes their academic plan(s);
C) fails to meet minimum course/plan requirements;
D) ineffectively plans or fails to execute a course of study that leads directly to degree completion; or
E) Candidates for a second bachelor's degree at The University of Arizona with a different award date than the first must earn no fewer than 30 units of University Credit in addition to the units required for the first degree, and must meet all requirements for the second degree.

The following requirements must be met for graduation.

Units Required and Cumulative GPA
120 units are required at a 2.0 GPA. View the pdf report grid for units earned toward this degree and cumulative GPA.

Completing a second bachelor's degree at The University of Arizona requires no fewer than 30 units in addition to the units
required for the first degree, and all requirements for the second degree must be met.

Upper Division Units
Not Satisfied: A minimum of 42 units of upper-division credit are required for this degree.

- Units: 42.00 required, 0.00 completed, 42.00 needed

Units in Residence
Not Satisfied: A minimum of 30 units in residence at The University of Arizona (excluding correspondence credit and credit by exam) is required.

- Units: 30.00 required, 0.00 completed, 30.00 needed

Upper Division Units in Residence
Not Satisfied: A minimum of 18 units of upper division credit in residence at the University of Arizona (excluding correspondence credit and credit by exam) is required.

- Units: 18.00 required, 0.00 completed, 18.00 needed

Correspondence and/or Exam Credit Limit
Satisfied: A maximum of 60 units of Correspondence Credit and/or Exam Credit may apply toward graduation.

- Units: 0.00 completed

Non Degree Seeking Limit
A maximum of 15 units completed as a non-degree seeking student may be used for fulfilling undergraduate degree requirements. Units exceeding this limit (shown below) must be subtracted from the units required towards the degree and graduation requirements.

Non-Community College Units
Not Satisfied: Non-Community College Units: While there is no limit to the total number of units of course work that may be transferred from an accredited community college to The University of Arizona, no more than 64 units from a 2-year institution may be applied toward the requirements for a bachelor's degree. Therefore, to reach the required 120 units for a bachelor's degree, a minimum of 56 units must be completed from 1) coursework at a 4-year institution, 2) approved credit by examination (refer to UA Catalog for approved examinations and scores), or 3) any combination thereof.

- Units: 56.00 required, 0.00 completed, 56.00 needed

Success Course Limit
Satisfied: No more than 3 units will apply toward a student's graduation requirements. All Success courses taken can be seen below. Success Course units exceeding the 3 unit maximum must be subtracted from the total units, residency requirements and cumulative grade point average.
PE Activity Course Limit

*Satisfied:* No more than 3 units will apply toward a student's graduation requirements. All PE activity courses taken can be seen below. PE Activity units exceeding the 3 unit maximum must be subtracted from the total units, residency requirements and cumulative grade point average.

Foundation Mathematics

*Not Satisfied:* Foundation Mathematics

GE Substantial Math Strand

*Overall Requirement Not Satisfied:* GE Substantial Math Strand

GE Substantial Math Strand

*Not Satisfied:* Complete 1 course.

- **Units:** 2.67 required, 0.00 completed, 2.67 needed
- **Courses:** 0.00 completed

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Courses Available

MATH 122B, MATH 125

GE Substantial Math Strand

*Not Satisfied:* Complete 1 course.

- **Units:** 2.67 required, 0.00 completed, 2.67 needed
- **Courses:** 0.00 completed

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Courses Available

MATH 129

Undergraduate General Education and Foundation Requirements

*Overall Requirement Not Satisfied:* Undergraduate General Education and Foundation Requirements

Foundation Composition

*Not Satisfied:* Complete 1 of the following 4 Foundation Composition options:

1. 3 Course Foundation Composition Sequence
2. 2 Course Foundation Composition Sequence
3. Honors Composition with grade of C or higher
4. Honors Composition with a grade of D and Second Semester Composition.

Please note: Students who earn a grade of D in Honors Composition may choose to repeat the course in order to earn a higher grade to satisfy the requirement. Please consult with your major advisor.

Mid-Career Writing Assessment - Complete 2nd semester English Composition with a B grade or higher. Students who do not earn
a grade of B or better in 2nd semester English Composition must also satisfy a college or department writing requirement. Consult your major advisor if you do not earn a grade of B in 2nd semester English Composition.

Option 1: Foundation Composition - 3 Course Sequence


- Courses: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

ENGL 101, ENGL 101A, ENGL 107, ENGL 107A, (***) (###), ENGL 102, ENGL 108, ENGL 106

OR Option 2: Foundation Composition - 2 Course Sequence

Not Satisfied: Complete 2 courses. Complete ENGL 101/107 AND ENGL 102/108

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

ENGL 101, ENGL 101A, ENGL 107, ENGL 107A, (***) (###), ENGL 102, ENGL 108

OR Option 3: Honors Composition

Not Satisfied: Complete 1 course with a C or better.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ENGL 109H

Foundation Second Language - Second Semester Proficiency

Not Satisfied: Credit will not be given for a course at an equivalent or lower level than prior language credit earned. Course must be taken for a grade, not as pass/fail. Third semester or higher courses used to fulfill this requirement may also be used to fulfill other requirements. A grade of C or higher is required in the course that satisfies the second language requirement.

Demonstrate second semester proficiency in a second language by completing a sequence of courses through a second semester or higher level or by passing a language proficiency examination at the second semester level or higher.

Second Semester Language Course

Not Satisfied: Complete 1 course with a grade of C or better.

- courses: 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

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### General Education Tier I

**Overall Requirement Not Satisfied:** Complete each of the following areas.

#### Tier I Individuals & Societies/150s

**Not Satisfied:** Complete 2 courses, 6 units total. Transfer students with quarter system credits may satisfy Tier One requirements with 2 courses and 5.34 units.

- **Units:** 5.34 required, 0.00 completed, 5.34 needed
- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

### Courses Available

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</table>

#### Tier I Traditions & Cultures/160s

**Not Satisfied:** Complete 2 courses, 6 units total. Transfer students with quarter system credits may satisfy Tier One requirements with 2 courses and 5.34 units.

- **Units:** 5.34 required, 0.00 completed, 5.34 needed
- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

### Courses Available

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</table>
Courses Available


General Education Tier II

Overall Requirement Not Satisfied: Complete each of the following areas.

Tier II Arts

Not Satisfied: Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy Tier Two requirements with 2.67 units.

- Units: 2.67 required, 0.00 completed, 2.67 needed
- Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available


Tier II Humanities

Not Satisfied: Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy Tier Two requirements with 2.67 units. Prerequisite course work in Tier 1 Traditions and Cultures (TRAD) must be completed prior to taking. If LAT 201 or 202 are used to fulfill Foundation Second Language Proficiency, they cannot be used to fulfill Tier II Humanities.

- Units: 2.67 required, 0.00 completed, 2.67 needed
- Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available

AFAS 200, AFAS 222, AFAS 224, AFAS 230, AFAS 245, AFAS 249, AFAS 255, AFAS 310, AFAS 314, AFAS 320, AFAS 335, AFAS 342, AFAS 365, AFAS 373, AFAS 374, AFAS 377, AFAS 381, AIS 212, AIS 381, ANTH 222, ANTH 300, ANTH 349, ARC 220, ARC 303, ARH 300, ARH 329, ART 329, ART 360, CHN 241, CHN 245, CHN 345, CLAS 220, CLAS 221, CLAS 222, CLAS 260, CLAS 300, CLAS 312, CLAS 329, CLAS 335, CLAS 342, CLAS 346, CLAS 349, CLAS 351, CLAS 352, CLAS 353, CLAS 355, EAS 201, EAS 358, EAS 359, ENGL 220A, ENGL 220B, ENGL 228,

Diversity Emphasis Course

Not Satisfied: One course must be taken that focuses on Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies.

Courses used to fulfill this requirement may also be used to fulfill other requirements.

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Courses Available


Diversity Emphasis Course

Not Satisfied: Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy Tier Two requirements with 2.67 units. Prerequisite course work in Tier 1 Individuals and Societies (INDV) must be completed prior to taking.

- Units: 2.67 required, 0.00 completed, 2.67 needed
- Courses: 1.00 required, 0.00 completed, 1.00 needed
Courses Available


Additional Coursework

Courses listed in this section may include general elective credits, UA courses and transferable courses from other institutions. Consult with your advisor to determine if courses listed in this section may be used to fulfill a requirement or sub-requirement in your degree program.

Courses taken for Pass/Fail option can only count as elective credit. They cannot fulfill any General Education, Major, or Minor requirements.

BS in Geosciences

Overall Requirement Not Satisfied: Bachelor of Science in Geosciences

Geosciences Supporting Coursework

Overall Requirement Not Satisfied: Geosciences Supporting Coursework.

Calculus I

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed
### Courses Available

MATH 122B, MATH 125

**Calculus II**

*Not Satisfied:* Complete 1 course.

Students with the Geology Emphasis (GEO) or Geophysics Emphasis (GEOPHYS) MUST complete additional math requirements.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

MATH 129

**Introductory Chemistry - 1st Semester**

*Not Satisfied:* Complete Chem 151.

Students with the Geology Emphasis (GEO) or Earth, Oceans, & Climate Emphasis (EOC) MUST complete the second General Chemistry course in the sequence (either CHEM 152 or CHEM 142 lecture and CHEM 144 lab).

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

CHEM 151

**OR Introductory Chemistry - 1st Semester**

*Not Satisfied:* Complete CHEM 141 and 143

- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

### Courses Available

CHEM 141, CHEM 143

**Introductory Chemistry - 2nd Semester**

*Not Satisfied:* Complete CHEM 152.
**Courses: 1.00 required, 0.00 completed, 1.00 needed**

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**Courses Available**

CHEM 152

**OR Introductory Chemistry - 2nd Semester**

Not Satisfied: Complete CHEM 142 and 144

**Courses: 2.00 required, 0.00 completed, 2.00 needed**

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**Physics I**

Not Satisfied: Complete 1 course. Students with the Geophysics Emphasis (GEOPHYS) MUST complete PHYS 141.

Disclaimer: Students with the Geology Emphasis (GEO) or Earth, Oceans & Climate Emphasis (EOC) may fulfill this requirement with either PHYS 102 lecture and PHYS 181 lab OR PHYS 141.

**Courses: 1.00 required, 0.00 completed, 1.00 needed**

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**Courses Available**

PHYS 141

**OR Physics I**

Not Satisfied: Complete 2 courses.

**Courses: 2.00 required, 0.00 completed, 2.00 needed**

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**Courses Available**

PHYS 102, PHYS 181

**Physics II**

Not Satisfied: Complete 1 course.

Students with the Geophysics Emphasis (GEOPHYS) MUST complete PHYS 142.
Students with the Geology Emphasis (GEO) or Earth, Oceans & Climate Emphasis (EOC) may fulfill this requirement with either PHYS 103 Lecture and PHYS 182 lab or PHYS 142.

- **Courses**: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

PHYS 142

OR Physics II

**Not Satisfied**: Complete 2 courses.

- **Courses**: 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

PHYS 103, PHYS 182

**Geosciences Core**

**Overall Requirement Not Satisfied**: Geosciences Core

**Computer Applications**

**Not Satisfied**: Complete 1 course.

- **Courses**: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

ATMO 490, CSC 110, ECE 175, ENVS 330, ENVS 490, GEN 330, GEOG 330, GEOG 417, GEOG 490, GEOS 280, GEOS 330, GEOS 490, GIST 330, GIST 417, HWRS 490, ISTA 130, OPTI 490, REM 490, RNR 417, RNR 490, WSM 330

**Physical Geology**

**Not Satisfied**: Complete 1 course.

- **Courses**: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

GEOS 251

Earth Surface Processes
Not Satisfied: Complete 1 course.
- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

GEOS 300

Stratigraphy & Sedimentation
Not Satisfied: Complete 1 course.
- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

GEOS 302

Core Capstone - Field Camp or Research
Not Satisfied: Complete 6 units.
- Units: 6.00 required, 0.00 completed, 6.00 needed

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Emphasis in Earth, Ocean, and Climate

Overall Requirement Not Satisfied: Complete both the Earth, Ocean, and Climate pre-major and Emphasis.

Earth, Ocean, and Climate Emphasis

Overall Requirement Not Satisfied: Earth, Ocean, and Climate Emphasis

1. Paleontology
Not Satisfied: Complete 1 course.
- Courses: 1.00 required, 0.00 completed, 1.00 needed
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**Courses Available**

GEOS 308

2. The History of Earth's Climate

- **Not Satisfied**: Complete 1 course.
  - **Courses**: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

GEOS 342

3. Ocean Science

- **Not Satisfied**: Complete 1 course.
  - **Courses**: 1.00 required, 0.00 completed, 1.00 needed

<table>
<thead>
<tr>
<th>Term</th>
<th>Subject</th>
<th>Catalog Nbr</th>
<th>Course Title</th>
<th>Grade</th>
<th>Units</th>
<th>RptCd</th>
<th>RqDes</th>
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<td>412A, ECOL  412A, ENVS  412A, GEOS  412A</td>
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4. Global Change

- **Not Satisfied**: Complete 1 course.
  - **Courses**: 1.00 required, 0.00 completed, 1.00 needed

<table>
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**Courses Available**

GEOS 478

5. Climate Dynamics

- **Not Satisfied**: Complete 1 course.
  - **Courses**: 1.00 required, 0.00 completed, 1.00 needed
Courses Available

GEOS 479

6. Advisor Approved Emphasis Area

Not Satisfied: Complete 17 units of the following or select alternative courses in consultation with your advisor. Any 300 or 400-level GEOS course not listed as a Core requirement may be applied toward Emphasis requirements. Cross-listed courses okay.

A maximum of 3 units of GEOS 397A may be applied to Emphasis requirements.

- Units: 17.00 required, 0.00 completed, 17.00 needed

Courses Available


Earth, Ocean, and Climate Emphasis Graduation Requirements

Overall Requirement Not Satisfied: Earth, Ocean, and Climate Emphasis Graduation Requirements

Mid Career Writing Assessment

Not Satisfied: Complete 2nd semester English Composition with a B grade or higher. Students who do not earn a grade of B or higher in 2nd semester English Composition must also satisfy a college or department writing requirement. Consult your major advisor if you do not earn a grade of B or higher in 2nd semester English Composition.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

Major GPA

Satisfied: A minimum 2.0 GPA is required in the major coursework. All major coursework may be applied to the major GPA.

- Units: 0.00 completed
· **GPA:** 2.000 required, 0.000 completed

**Major Units**

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<tr>
<th>Subject</th>
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<th>Units</th>
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<th>Type</th>
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</thead>
</table>

**Not Satisfied:** A minimum of 52 units must be completed in the major.

· **Units:** 52.00 required, 0.00 completed, 52.00 needed

**Major Residency**

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<tr>
<th>Subject</th>
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<th>Units</th>
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<th>Type</th>
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</table>

**Not Satisfied:** A minimum of 18 units in the pre-major, supporting coursework, professional core, and/or major must be taken at the University of Arizona.

· **Units:** 18.00 required, 0.00 completed, 18.00 needed

**Major Upper Division**

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<tr>
<th>Subject</th>
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<th>Course Title</th>
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<th>Units</th>
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<th>RqDes</th>
<th>Type</th>
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</table>

**Not Satisfied:** A minimum of 30 units of upper-division major coursework must be completed.

· **Units:** 30.00 required, 0.00 completed, 30.00 needed
### Minor Optional

**Satisfied:** A minor is optional for this major. Consult with your advisor to select a minor or discuss other options such as selecting a second major.