Our planet is more than meets the eye. Explore Earth from its origin and history to its components and how they interact with each other. Students who select the Bachelor of Science in Geosciences with a Geology emphasis take an interdisciplinary approach to the study of the planet. In this top-ranked program, students learn scientific research skills; gain experience working with data and technology in the field and in the laboratory; and study the Earth's origin and history, as well as the planet's components and how they interact with one another. Geology students participate in a Capstone Summer Field Camp in the later part of their program that provides hands-on experience applying their content knowledge in the field. Graduates pursue careers in research, energy, mineral resources, academia 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 main classes of minerals
- 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.
Not from:  

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

- AIS 104B, AIS 307B, ARB 102, CHN 102, CRL 102, FREN 102, FREN 112, GER 102, GRK 102, GRK 104, GRK 112, ITAL 102, ITAL 102Z, JPN 102, KOR 102, LAS 305A, LAT 102, LAT 112, LING 104B, LING 307B, MENA 103B, PORT 102, PORT 305A, PORT 325A, PRS 102, RSSS 102, SERP 370B, SPAN 102, SPAN 103, SPAN 205, TURK 102

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


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


General Education Tier II (R528)
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

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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

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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, CLASS 220, CLASS 221, CLASS 222, CLASS 260, CLASS 300, CLASS 312, CLASS 329, CLASS 335, CLASS 342, CLASS 346, CLASS 349, CLASS 351, CLASS 352, CLASS 353, CLASS 355, EAS 201, EAS 358, EAS 359, ENGL 220A, ENGL 220B, ENGL 228,
GEOSBS USNC GEO


Tier II Individual & Societies  

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

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Courses Available


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.

Diversity Emphasis Course  

Not Satisfied: General Education Diversity Emphasis Course: Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies.

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


Additional Coursework (RG521)

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 (RG839)

Overall Requirement Not Satisfied: Bachelor of Science in Geosciences

Geosciences Supporting Coursework (R1272)

Overall Requirement Not Satisfied: Geosciences Supporting Coursework.

Calculus I (R1272/L10)

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

Additional Math Course

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available

BNAD 276, MATH 163, MATH 215, MATH 223, MATH 254, MATH 263, MATH 313, MATH 322

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

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**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
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

Not Satisfied: Complete 6 units.

- Units: 6.00 required, 0.00 completed, 6.00 needed

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Courses Available

GEOS 405, GEOS 414

Emphasis in Geology
Overall Requirement Not Satisfied: Complete both the Geology pre-major and Emphasis.

Geology Emphasis
Overall Requirement Not Satisfied: Geology Emphasis

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

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Courses Available

GEOS 304

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

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Courses Available

GEOS 306

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

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Courses Available

GEOS 308

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

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### Courses Available

**GEOS 322**

5. Petrology  

**Not Satisfied:** Complete 1 course.

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

### Courses Available

**GEOS 356**

6. Emphasis Area Courses  

**Not Satisfied:** Complete 15 units of the following or select alternate 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 1 course may be taken from MCB 181R and MCB 184.

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

- **Units:** 15.00 required, 0.00 completed, 15.00 needed

### Courses Available


### Geosciences Major Geology Emphasis Graduation Requirements

**Overall Requirement Not Satisfied:** Geosciences Major Geology 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

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**Major GPA**

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

- **GPA**: 2.000 required, 0.000 completed

**Major Units**

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

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

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**Major Residency**

- **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
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**Major Upper Division**

*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

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**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.