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 assess 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) ineflectively 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.
**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 1EIB, 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 1EIB, 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

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</table>

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, JUS 103B, 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 FOR FALL 2021 AND PREVIOUS ADMITS

Not Satisfied: ****University of Arizona General Education requirements are changing effective Spring 2022. Students matriculating in Fall 2021, please consult https://catalog.arizona.edu/policy/general-education-curriculum/fall-2021 for additional detail on current General Education requirements.****

General Education for Fall 2021 admits includes the following requirements, detailed below: General Education Tier I (4-6 courses, dependent on student major); General Education Tier II (3-4 courses, dependent on student major); Diversity Emphasis Course (1 course).

General Education Tier I

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

<table>
<thead>
<tr>
<th>Tier I Individuals &amp; Societies/150s</th>
<th>(PS202.10)</th>
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</thead>
<tbody>
<tr>
<td>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.</td>
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<tr>
<td>- Units: 5.34 required, 0.00 completed, 5.34 needed</td>
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<tr>
<td>- Courses: 2.00 required, 0.00 completed, 2.00 needed</td>
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</tbody>
</table>

Courses Available

(***) (###), AFAS 150B1, ANTH 150B1, ART 150B1, ART 150B2, EAS 150B1, EDP 150B1, ENGL 150B1, ENGL 150B2, ESOC 150B1, FREN 150B1, FSHD 150B1, FTV 150B1, GEOG 150B1, GEOG 150B2, GER 150B1, GWS 150B1, GWS 150B2, GWS 150B3, GWS 150B4, GWS 150B5, HNRS 150B1, HNRS 150B2, HUMS 150B1, ITAL 150B1, LAR 150B1, LAS 150B1, LAS 150B1, MAS 150B1, MAS 150B2, MIS 150B1, PAH 150B1, PHIL 150B1, POL 150B1, RCSC 150B1, RCSC 150B2, RELI 150B1, RSSS 150B1, RSSS 150B2, SOC 150B1, SOC 150B2, SPAN 150B1, SPAN 150B2, TLS 150B1, AED 150A1, ANTH 150A1, ART 150A1, ENGL 150A1, GER 150A1, HWRD 150A1, LING 150A1, MRS 150A1, PAH 150A1, PAH 150A2, PAH 150A3, PHIL 150A1, POL 150A1, PSY 150A1, AED 150C1, ANTH 150C1, AREC 150C1, AREC 150C2, AEC 150C3, CLAS 150C1, ECON 150C1, ECON 150C1, FIN 150C1, FREN 150C1, GEOG 150C1, HIST 150C1, HIST 150C2, HIST 150C3, HIST 150C4, HIST 150C5, HIST 150C6, HNRS 150C1, HPS 150C1, ITAL 150C1, JOUR 150C1, LAS 150C2, LING 150C1, MATH 150C1, MATH 150C2, MATH 150C3, PPFL 150C1, RNR 150C1, SOC 150C1, SOC 150C2, TLS 150C1, PHIL 150A2

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
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<tr>
<th>Term</th>
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**Courses Available**


**General Education Tier II**

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

**Tier II Arts**


**Courses Available**

AFAS 200, AFAS 222, AFAS 224, AFAS 230, AFAS 245, AFAS 249, AFAS 255, AFAS 310, AFAS 314, AFAS 320,
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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<tr>
<th>Term</th>
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Courses Available


Diversity Emphasis Course

Not Satisfied: Any 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


GENERAL EDUCATION FOR SPRING 2022 AND FUTURE ADMITS

Not Satisfied: "University of Arizona General Education requirements are changing effective Spring 2022. Students matriculating in Spring 2022 or beyond, please consult https://catalog.arizona.edu/policy/general-education-curriculum-spring-2022 for additional detail on new General Education requirements.""
**GE Exploring Perspectives**

**Overall Requirement Not Satisfied:** Choose one course from each domain.

### Artist

**Not Satisfied:** Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy requirement with 1 course and 2.67 units.

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

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</table>

### Humanist

**Not Satisfied:** Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy requirement with 1 course and 2.67 units.

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

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</table>

### Natural Scientist

**Not Satisfied:** Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy requirement with 1 course and 2.67 units.

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

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### Social Scientist

**Not Satisfied:** Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy requirement with 1 course and 2.67 units.

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

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**GE Building Connections**

**Not Satisfied:** Choose three courses (9 units) from two or more disciplines and/or perspectives.

### Building Connections

**Not Satisfied:** Complete 3 courses, 9 units total. Transfer students with quarter system credits may satisfy requirements with 3 courses and 8.01 units.

- **Units:** 8.01 required, 0.00 completed, 8.01 needed
- **Courses:** 3.00 required, 0.00 completed, 3.00 needed
Courses Available

GE Capstone course

Not Satisfied: GE Capstone course

Capstone course

Not Satisfied: Students reflect on their General Education experience and complete their ePortfolio in the GE Capstone course. (1 unit)

- Units: 1.00 required, 0.00 completed, 1.00 needed

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

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**Courses Available**

MATH 129

Vector Calculus

*Not Satisfied*: Complete 1 course.

Students with the Gem Science Emphasis must complete vector calculus.

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

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**Courses Available**

MATH 223

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

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**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

Solid State Chemistry.  
**Not Satisfied:** Complete MSE 110.

Students with the Gem Science Emphasis must complete MSE 110.

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

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Courses Available

MSE 110

**Physics I**

**Not Satisfied:** Complete 1 course. Students with the Geophysics Emphasis (GEOPHY) 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 (GEOPHY) 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

GEOS 280

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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Courses Available

GEOS 405, GEOS 414, GEOS 492, GEOS 496, GEOS 498, GEOS 498H, GEOS 499, GEOS 499H

Emphasis in Gem Science

Overall Requirement Not Satisfied: Emphasis in Gem Science

Gem Science Emphasis Requirements

Overall Requirement Not Satisfied: Gem Science Emphasis Requirements

Core Requirements I

Not Satisfied: Complete 5 courses

- **Courses**: 5.00 required, 0.00 completed, 5.00 needed

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### Courses Available

GEOS 306, GEOS 356, GEOS 462, MSE 480, GEOS 260

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### Core Requirements II

**Not Satisfied:** Complete 1 course

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

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### Courses Available

GEOS 400, GEOS 474A, GEOS 574A

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### Emphasis Elective Courses

**Not Satisfied:** Complete 13 units

- **Units:** 13.00 required, 0.00 completed, 13.00 needed

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### Courses Available


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### Gem Science Emphasis Graduation Requirements

**Overall Requirement Not Satisfied:** Gem Science Emphasis Graduation Requirements

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### 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: 2.00 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

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.