Academic Advisement Report
UGRD.USCNC.GEOSBS.GEOPHYS
Undergraduate Career
College of Science Program
Geosciences Major (BS)
Geophysics Emphasis
Requirement Term: Fall 2020

MAIN Campus at TUCSON Location
Become proficient in tectonics, geophysics and geodynamics to gain greater understanding of our planet - from its inner core to the depths of the oceans to the outer reaches of space. The Bachelor of Science in Geosciences with a Geophysics emphasis takes an interdisciplinary approach to the study of the planet. The program covers topics such as tectonics, geophysics and geodynamics, as well as Earth system modeling, remote sensing and seismology. Students learn quantitative scientific research skills and gain experience working with data and technology in the field and in the laboratory. Geophysics 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, 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: Main 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.

· **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, 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 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

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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, GEOG 150S1, GER 150B1, GWS 150B1, GWS 150B2, GWS 150B3, GWS 150B4, GWS 150B5, HNRS 150B1, HNRS 150B2, HUMS 150B1, ITAL 150B1, LAR 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, TELS 150B1, AED 150A1, ANTH 150A1, ART 150A1, ENGL 150A1, GER 150A1, HNRS 150A1, LING 150A1, MIS 150A1, PAH 150A1, PAH 150A2, PHIL 150A3, PHIL 150A1, POL 150A1, PSY 150A1, AED 150C1, ANTH 150C1, AREC 150C1, AREC 150C2, AED 150C3, CLAS 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 150B2, LING 150C1, MAS 150C1, MESA 150C1, MIN 150C1, PHIL 150C1, PLP 150C1, POL 150C1, POL 150C2, POL 150C3, PPEL 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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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,

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

### Courses Available

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

### 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
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**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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Not Satisfied: Complete 1 course.

Courses Available

MATH 129

**Additional Math Coursework**

*Not Satisfied:* Complete 4 courses.

- **Courses:** 4.00 required, 0.00 completed, 4.00 needed

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Courses Available

MATH 223, MATH 254, 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

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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

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

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

**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
### Physical Geology (R15815/L10)

**Not Satisfied:** Complete 1 course.

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

### Earth Surface Processes (R15815/L15)

**Not Satisfied:** Complete 1 course.

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

### Stratigraphy & Sedimentation (R15815/L20)

**Not Satisfied:** Complete 1 course.

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

### Core Capstone - Field Camp (R15815/L30)

**Not Satisfied:** Complete 6 units.

- **Units:** 6.00 required, 0.00 completed, 6.00 needed
**Courses Available**

GEOS 405, GEOS 414

**Emphasis in Geophysics**

*Overall Requirement Not Satisfied:* Complete both the Geophysics pre-major and Emphasis.

**Geophysics Emphasis**

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

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GEOS 322

4. Petrology
   Not Satisfied: Complete 1 course.
   · Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

GEOS 356

5. Physics of the Earth
   Not Satisfied: Complete 1 course.
   · Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

GEOS 419

6. Intro to Seismology
   Not Satisfied: Complete 1 course.
   · Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

GEOS 432

7. Introduction to Exploration Seismology
   Not Satisfied: Complete 1 course.
   · Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

GEOS 434A

8. Emphasis Area Courses
**Not Satisfied:** Complete 9 units of the following or select alternate courses in consultation with your advisor. Any 300 or 400-level course not listed as a Core requirement may be applied toward Emphasis requirements. Cross-listed courses okay.

- **Units:** 9.00 required, 0.00 completed, 9.00 needed

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**Courses Available**


**Geosciences Major Geophysics Emphasis Graduation Requirements**

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

**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

**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.