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 his/her 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) is completing more than one baccalaureate degree. 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.

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

Final Units in Residence
A minimum of 18 of the final 30 units taken toward degree requirements must be in residence at The University of Arizona.
Consult with your academic advisor if you intend to use transfer credits to fulfill your degree requirements.

Correspondence and/or Exam Credit Limit
Satisfied: A maximum of 60 units of Correspondence Credit and/or Exam Credit may apply toward graduation.
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 must be subtracted from the units required towards the degree and graduation requirements.

Community College Limit
Not Satisfied: A maximum of 64 units of community college course work may apply toward graduation. A minimum of 56 units of course work must be completed at a 4-year institution, military institution, or as test credit.
· 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
Not Satisfied: GE Substantial Math Strand

GE Substantial Math Strand
Not Satisfied: Complete 1 course from MATH 124,125,129,223 TO 499.
· Units: 2.67 required, 0.00 completed, 2.67 needed

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Courses Available

MATH 122B, MATH 124, MATH 125, MATH 125-CC, MATH 129, MATH 129-CC, MATH 215, MATH 223, MATH 223-CC, MATH 250A, MATH 254, MATH 254-CC

Undergraduate General Education and Foundation Requirements

Overall Requirement Not Satisfied: Undergraduate General Education and Foundation Requirements

Foundation Composition

Not Satisfied: Complete 1 of the 2 following options:
1. First and Second Semester Composition OR
2. Honors Composition

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: First Semester Composition
Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ENGL 101, ENGL 101A, ENGL 103H, ENGL 107, ENGL 107A

AND Option 1: Second Semester Composition
Not Satisfied: AND Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ENGL 102, ENGL 104H, ENGL 108

OR Option 2: Honors Composition
Not Satisfied: OR 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.

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.


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

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**Courses Available**


**General Education Tier I**

Overall Requirement *Not Satisfied:* Complete 2 courses in each of the following areas.

**Tier I Individuals & Societies**

*Not Satisfied:* Fulfillment of Individuals and Societies requires completion of two distinctly numbered courses (e.g., INDV 101 & 103 or PSY 150A1 & ANTH 150B1 or PSY 150A1 & INDV 103).

Only one course may be completed from the 150A options OR INDV 101. Only one course may be completed from the 150B options OR INDV 102. Only one course may be completed from the 150C options OR INDV 103.

INDV 101 = 150A#
INDV 102 = 150B#
INDV 103 = 150C#

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

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**Courses Available**

Tier I Traditions & Cultures

**Not Satisfied:** Fulfillment of Traditions and Cultures requires completion of two distinctly numbered courses (e.g., TRAD 102 & 104 or AFAS 160A & RSSS 160A or TRAD 101 & RSSS 160B).

Only one course may be completed from the 160A options OR TRAD 101. Only one course may be completed from the 160B options OR TRAD 102. Only one course may be completed from the 160C options OR TRAD 103. Only one course may be completed from the 160D options OR TRAD 104.

TRAD 101 = 160A#
TRAD 102 = 160B#
TRAD 103 = 160C#
TRAD 104 = 160D#

- Courses: 2.00 required, 0.00 completed, 2.00 needed

### Courses Available


### General Education Tier II

**Overall Requirement Not Satisfied:** Complete 1 course from each of the following areas.

**Tier II Arts**

**Not Satisfied:** Complete 3 units.

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

EGR

Courses Available


Tier II Humanities

Not Satisfied: 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.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available


Tier II Individual & Societies

Not Satisfied: Prerequisite course work in Tier 1 Individuals and Societies (INDV) must be completed prior to taking.

- 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

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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.
BSES in Environmental Sciences

Overall Requirement Not Satisfied: Bachelor of Science in Environmental Sciences

General Sciences Core

Overall Requirement Not Satisfied: General Sciences Core

1. Introductory Chemistry I
   Not Satisfied: Complete 4 units.
   - Units: 4.00 required, 0.00 completed, 4.00 needed

   Courses Available
   CHEM 103A, CHEM 103A-CC, CHEM 104A, CHEM 151, (***) (###), CHEM 105A, CHEM 106A

2. Introductory Chemistry II
   Not Satisfied: Complete 4 units.
   - Units: 4.00 required, 0.00 completed, 4.00 needed

   Courses Available
   CHEM 103B, CHEM 103B-CC, CHEM 104B, CHEM 152, (***) (###), CHEM 105B, CHEM 106B

3. Organic Chemistry
   Not Satisfied: Complete 4 units.
   - Units: 4.00 required, 0.00 completed, 4.00 needed

   Courses Available
   CHEM 241A, CHEM 243A, (***) (###)

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

**MATH 124, MATH 125, MATH 125-CC**

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

### Courses Available

**COMM 200, ECON 276, GEOG 200, MATH 263, MATH 263-CC, MATH 363, MGMT 276, PA 200, POL 200, PSY 230, PSY 230-CC, SBS 200, SOC 200**

6. Introductory Biology I
   - *Not Satisfied:* Complete 4 units.
   - **Units:** 4.00 required, 0.00 completed, 4.00 needed

### Courses Available

**MCB 181L, MCB 181R, MCB 184**

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

### Courses Available

**ECOL 182R**

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

MIC 205A

9. Physics

Not Satisfied: Complete 2 courses.

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

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**Courses Available**

PHYS 102, PHYS 102-CC, PHYS 102-SA, PHYS 181, PHYS 181-SA

- **Environmental Science Core**

  Overall Requirement Not Satisfied: Environmental Science Core

1. Ecology

Not Satisfied: Complete 1 course.

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

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**Courses Available**

ECOL 302, ECOL 474, ECOL 475, MIC 425, RNR 316, SWES 425, SWES 474, WFSC 474

2. Geology

Not Satisfied: Complete 1 course.

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

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**Courses Available**

GEOS 251

3. Physics

Not Satisfied: Complete 1 course.

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

ATMO 336, SWES 420

4. Hydrology

**Not Satisfied:** Complete 1 course.

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

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**Courses Available**

HWRS 250, HWRS 460A, WSM 460A

5. Soils

**Not Satisfied:** Complete 2 courses.

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

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**Courses Available**

SWES 200, SWES 201

6. Environmental Chemistry

**Not Satisfied:** Complete 1 course.

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

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**Courses Available**

GEOS 340, HWRS 340, HWRS 417A, SWES 340, SWES 462

7. Pollution

**Not Satisfied:** Complete 1 course.

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

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**Courses Available**

SWES 305

8. Health Risk Assessment

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

CPH 418, HWRS 443A, SWES 418

Career Preparation Courses

Overall Requirement Not Satisfied: Career Preparation Courses

1. Environmental Science

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

SWES 210

2. Technical Writing

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

ENGL 308, SWES 408, SWES 415

3. Capstone

Not Satisfied: Complete 2 courses.

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

SWES 430L, SWES 430R

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

Courses Available

SWES 461

4. Internship, Teaching Workshop, or Independent Study
  Not Satisfied: Complete 1 course.
  - Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available

ABE 397A, SWES 393, SWES 393-SA, SWES 397A, SWES 399

Option in Remote Sensing & Geospatial Analysis
  Overall Requirement Not Satisfied: Option in Remote Sensing & Geospatial Analysis

This option applies principles of remote sensing and geographic information systems analysis tools and their applications to the study of the environment and global change.

Remote Sensing & Geospatial Analysis Focus
  Overall Requirement Not Satisfied: Remote Sensing & Geospatial Analysis Focus

1. Remote Sensing & Geospatial Analysis Core Courses
  Not Satisfied: Complete 2 courses.
  - Courses: 2.00 required, 0.00 completed, 2.00 needed
Courses Available

GEN 330, GEOG 330, GEOG 417, GEOS 330, RNR 417, SWES 330, WSM 330

2. Remote Sensing & Geospatial Analysis Required Courses

Not Satisfied: Complete 2 courses.

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

ATMO 490, GEN 490, GEOG 419, GEOG 420, GEOG 483, GEOG 490, GEOS 490, HWRS 490, MNE 490, OPTI 490, PLG 483, REM 490, RNR 419, RNR 420, RNR 483, RNR 490, SWES 453, SWES 483, SWES 490

3. Remote Sensing & Geospatial Analysis Optional Courses

Not Satisfied: Complete 2 courses.

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

ECE 531, GEOG 303, GEOG 357, GEOG 416A, GEOG 473, GEOS 478, OPTI 531, RNR 271, RNR 321, RNR 416A, RNR 473, SWES 431, SWES 461, SWES 470

Remote Sensing & Geospatial Analysis Focus Graduation Requirements

Overall Requirement Not Satisfied: Remote Sensing & Geospatial Analysis Focus Graduation Requirements

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.

- Units: 0.00 completed
- GPA: 2.000 required, 0.000 completed
### Major Upper Division

**Not Satisfied:** A minimum of 18 units of upper-division major coursework must be completed.

- **Units:** 18.00 required, 0.00 completed, 18.00 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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### 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.