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 plan 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 (shown below) must be subtracted from the units required towards the degree and graduation requirements.

Community College Limit
\textbf{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.

- \textbf{Units:} 56.00 required, 0.00 completed, 56.00 needed

Success Course Limit
\textbf{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
\textbf{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
\textbf{Not Satisfied:} Foundation Mathematics

GE Substantial Math Strand
\textbf{Not Satisfied:} Math GE

GE Substantial Math Strand
\textbf{Not Satisfied:} Complete 1 course from MATH 122B,124,125,129,223 TO 499.

- \textbf{Units:} 2.67 required, 0.00 completed, 2.67 needed

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</table>

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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: Select from 1 of the 3 following options:
1. First and Second Semester Composition OR
2. Honors Composition with grade of C or higher OR
3. 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 consults 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: 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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ENGL 109H

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Page 3 of 16
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.


- Courses: 1.00 required, 0.00 completed, 1.00 needed
- GPA: 2.000 required, 0.000 completed

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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

(***) (###), ANTH 150B1, ANTH 150B1-SA, ART 150B1, ART 150B1-SA, ART 150B2, EDP 150B1, EDP 150B1-SA, ENGL 150B1, ENGL 150B1-SA, FSHD 150B1, GEOG 150B1, GEOG 150B1-SA, GER 150B1, GER 150B1-SA, GWS
SLWM

150B1, GWS 150B1-SA, GWS 150B2, GWS 150B2-SA, GWS 150B3, GWS 150B3-SA, GWS 150B4, GWS 150B4-SA, HNRS 150B1, HNRS 150B1-SA, HNRS 150B2, IRLS 150B1, LAR 150B1, LAR 150B1-SA, LAS 150B1, LAS 150B1-SA, MAS 150B1, MAS 150B2, MIS 150B1, MIS 150B1-SA, PA 150B1, PA 150B1-SA, PE 150B1, PE 150B1-SA, PHIL 150B1, PHIL 150B1-SA, POL 150B1, POL 150B1-SA, RCSC 150B1, RCSC 150B1-SA, RSSS 150B1, RSSS 150B1-SA, SOC 150B1, SOC 150B1-SA, SOC 150B2, SOC 150B2-SA, AED 150C1, AED 150C1-SA, ANTH 150C1, ANTH 150C1-SA, ART 150C1, ART 150C1-SA, HNRS 150C1, HNRS 150C1-SA, IRLS 150C1, IRLS 150C1-SA, LAR 150C1, LAR 150C1-SA, LAS 150C1, LAS 150C1-SA, MAS 150C1, MAS 150C1-SA, MIS 150C1, MIS 150C1-SA, PA 150C1, PA 150C1-SA, PE 150C1, PE 150C1-SA, PHIL 150C1, PHIL 150C1-SA, POL 150C1, POL 150C1-SA, RCSC 150C1, RCSC 150C1-SA, RSSS 150C1, RSSS 150C1-SA, SOC 150C1, SOC 150C1-SA, SOC 150C2, SOC 150C2-SA

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 160A2 & RSSS 160C1 or TRAD 101 & RSSS 160C1).

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 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, 3.00 needed
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

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

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

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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.

**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

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</table>

**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

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**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

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**Courses Available**

CHEM 241A, CHEM 243A, (***) (###)
4. Math
   Not Satisfied: Complete 1 course.
   - Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available
- MATH 124, MATH 125, MATH 125-CC, MATH 122B

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

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Courses Available
- COMM 200, ECON 276, GEOG 200, ISTA 116, 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

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Courses Available
- MCB 181L, MCB 181R, MCB 181R, MCB 184

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

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Courses Available
- ECOL 182R, ECOL 182R
8. Microbiology

**Not Satisfied:** Complete 1 course.

- **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. Environmental 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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</table>
### 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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<th>Term</th>
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<th>Catalog Nbr</th>
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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

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**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

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**Courses Available**

ABE 397A, SWES 393, SWES 393-SA, SWES 397A, SWES 399, SWES 499

**Option in Sustainable Land & Water Management**

**Overall Requirement Not Satisfied:** Option in Sustainable Land & Water Management

This option focuses on landscape-level processes in environmental science.

**Sustainable Land & Water Management Focus**

**Overall Requirement Not Satisfied:** Sustainable Land & Water Management Focus

1. Applied Environmental Law
Not Satisfied: Complete 1 course.

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

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**Courses Available**

SWES 444, WSM 444

2. GIS and Remote Sensing
   Not Satisfied: Complete 1 course.
   - **Courses**: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

GEOG 403, RNR 403, SWES 453

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

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**Courses Available**

ECOL 454, SWES 454, SWES 461, WFSC 454

4. Sustainable Land and Water Management Required Course
   Not Satisfied: Complete 1 course.
   - **Courses**: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

SWES 401, SWES 431

5. Sustainable Land and Water Management Optional Course
   Not Satisfied: Complete 6 units.
   - **Units**: 6.00 required, 0.00 completed, 6.00 needed

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Courses Available

ECOL 406L, ECOL 406R, ECOL 454, ECOL 456A, ECOL 474, ECOL 475, GEOG 304, GEOG 397A, GEOG 403, GEOG 461, GEOG 461-SA, GEOG 450, GEOS 478, HQRS 456A, HQRS 461, LAS 461, MIC 425, MIC 426, PLG 461, RNR 403, SWES 316, SWES 401, SWES 425, SWES 426, SWES 431, SWES 453, SWES 454, SWES 456A, SWES 470, SWES 474, WFSC 454, WFSC 474, WSM 456A

Sustainable Land & Water Management Focus Graduation Requirements

Overall Requirement Not Satisfied: Sustainable Land & Water Management Focus Graduation Requirements (R3348)

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.

- 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

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
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.