**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**

128 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.

- 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.

Community College Limit
Not Satisfied: A maximum of 64 units of community college course work may apply toward graduation. A minimum of 64 units of course work must be completed at a 4-year institution, military institution, or as test credit.
- Units: 64.00 required, 0.00 completed, 64.00 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
- Units: 2.67 required, 0.00 completed, 2.67 needed
- Courses: 0.00 completed

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 consult 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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**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 (RS21/L10)

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


General Education Tier I

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

Tier I Individuals & Societies (RS22/L10)

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 160C2 & 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: 2.00 required, 0.00 completed, 2.00 needed

Courses Available


General Education Tier II

**Overall Requirement Not Satisfied:** Majors must complete Tier II Individual and Societies. Choose one additional Tier II courses from Tier II Arts or Tier II Humanities to complete the requirement.

Option 1: Tier II Arts

- **Not Satisfied:** Complete 3 units

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

Courses Available

OR Option 2: Tier II Humanities

Not Satisfied: Complete 1 course. 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


AND Tier II Individual & Societies

Not Satisfied: Complete 1 course. 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

(RS31/L10)

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

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.
**BS in Environmental Hydrology and Water Resources**

*Overall Requirement Not Satisfied: Bachelor of Science in Environmental Hydrology and Water Resources*

**Environmental Hydrology and Water Resources Supporting Sciences**

*Overall Requirement Not Satisfied: Environmental Hydrology and Water Resources Supporting Sciences*

1. **Mathematics**
   
   *Not Satisfied: Complete 3 courses*
   
   - **Courses:** 3.00 required, 0.00 completed, 3.00 needed

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   **Courses Available**

   MATH 129, MATH 129-CC, MATH 223, MATH 223-CC, MATH 254, MATH 254-CC

2. **Option 1: Introductory Chemistry I**
   
   *Not Satisfied: Complete 2 courses*
   
   - **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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   **Courses Available**

   CHEM 103A, CHEM 103A-CC, CHEM 104A

3. **Option 2: Introductory Chemistry I**
   
   *Not Satisfied: Complete 1 course*
   
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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   **Courses Available**

   CHEM 151, Approved Transfer Course

4. **Option 1: Introductory Chemistry II**
   
   *Not Satisfied: Complete 2 courses*
Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available
CHEM 103B, CHEM 103B-CC, CHEM 104B
3. Option 2: Introductory Chemistry II
   Not Satisfied: Complete 1 course
   - Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available
CHEM 152, Approved Transfer Course
4. Physics I
   Not Satisfied: Complete 1 course.
   - Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available
PHYS 141
5. Physics II
   Not Satisfied: Complete 1 course.
   - Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available
PHYS 143, PHYS 142
6. Preparatory Courses I
   Not Satisfied: Complete 2 courses
   - Courses: 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

GEOS 251, CE 218

7. Preparatory Courses II

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

ECOL 206, ECOL 230

OR 7. Option II: Preparatory Course II

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, Approved Transfer Course, CHEE 477R

8. Core Courses I

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

SIE 305, SIE 305-CC, SIE 305-SA

9. Core Courses II

Not Satisfied: Complete 1 course

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**Courses Available**

**GEOS 302, GEOS 304**

10. Core Courses III

**Not Satisfied**: Complete 1 course

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

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**Courses Available**

**ENGL 308, ENGL 414, ENV 408**

**Environmental Hydrology and Water Resources Major**

**Overall Requirement Not Satisfied**: Environmental Hydrology and Water Resources Major

1. Environmental Hydrology and Water Resources Core Courses

**Not Satisfied**: Complete 10 courses

- **Courses**: 10.00 required, 0.00 completed, 10.00 needed

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**Courses Available**


2. Environmental Hydrology and Water Resources Electives

**Not Satisfied**: Complete 3 courses.

Complete no more that 1 course from HWR 427 or HWR 467.
Complete no more than 1 course from RNR 403, RNR 417, RNR 419 or RNR 420 (which are the same as GEOG 403, GEOG 417, GEOG 419, GEOG 420, and SWES 417, respectively)

RNR 403 and GEOG 403 are the same class: Applications of Geographic Information Systems
RNR 417, GEOG 417, and SWES 417 are the same class: Geographic Information Systems for Natural and Social Sciences
RNR 419 and GEOG 419 are the same class: Cartographic Modeling for Natural Resources
RNR 420 and GEOG 420 are the same class: Advanced Geographic Information Systems
ABE 427, HWRS 427 and CE 427 are the same class: Computer Applications in Hydraulics
ABE 467, HWRS 467 and WSM 467 are the same class: Advanced Watershed Hydrology

- Courses: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available
GEOS 450, ABE 427, ABE 467, CE 427, GEOG 403, GEOG 417, GEOG 419, GEOG 420, HWRS 427, HWRS 467, HWRS 482, HWRS 498, RNR 403, RNR 417, RNR 419, RNR 420, WSM 467

3. Computational Electives
Not Satisfied: Complete 1 course.

RNR 403 and GEOG 403 are the same class: Applications of Geographic Information Systems
RNR 417, GEOG 417, and SWES 417 are the same class: Geographic Information Systems for Natural and Social Sciences

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available
ABE 205, CE 303, CSC 127A, GEOG 403, GEOG 417, RNR 403, RNR 417, SIE 270, SIE 270-CC

4. Option I: Technical Electives - Surface Water Emphasis
Not Satisfied: Complete 3 courses with advisor approval. HWRS 519 available for students who meet eligibility requirements.

HWRS 427, CE 427, and ABE 427 are the same class: Computer Applications in Hydraulics
HWRS 467, WSM 467, and ABE 467 are the same class: Computer Applications in Hydraulics
RNR 417, GEOG 417, and SWES 417 are the same class: Geographic Information Systems for Natural and Social Sciences

- Courses: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available
ABE 427, ABE 467, CE 214, CE 323, CE 427, GEOG 417, HWRS 427, HWRS 467, HWRS 519, RNR 417, WSM 467
OR 4. Option II: Technical Electives - Groundwater Emphasis

**Not Satisfied:** Complete 3 courses with advisor approval; HWRS 505 or 518 available for students who meet eligibility requirements.

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

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**Courses Available**

GEOS 302, GEOS 304, GEOS 450, HWRS 482, HWRS 505, HWRS 518

OR 4. Option III: Technical Electives - Water Quality Emphasis

**Not Satisfied:** Complete 3 courses with advisor approval. MIC 205A & L available for students who took MCB 181R in lieu of ECOL 130 / ECOL 206.

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

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**Courses Available**


OR 4. Option IV: Technical Electives - Water Resources Emphasis

**Not Satisfied:** Complete 3 courses with advisor approval. HWRS 520 available for students who meet eligibility requirements.

SWES 454, ECOL 454, and WFSC 454 are the same class: Water Harvesting  
AREC 217 and ECON 217 are the same class: Resources and Environmental Economics  
AREC 373 and ECON 373 are the same class: Environmental Economics  
HWRS 481, POL 481, and RNR 481 are the same class: Environmental Policy

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

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**Courses Available**

AREC 217, AREC 350, AREC 373, ECOL 454, ECON 217, ECON 373, ENVS 415, ENVS 444, ENVS 454, GEOG 455, GEOG 455-SA, HWRS 481, HWRS 520, PA 481, POL 481, RNR 481, WFSC 454, WSM 444
Environmental Hydrology and Water Resources Graduation Requirements

**Overall Requirement Not Satisfied:** Environmental Hydrology and Water Resources 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

### Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type
---|---|---|---|---|---|---|---|---

**Major Units**
- **Not Satisfied:** A minimum of 40 units must be completed in the major.
  - **Units:** 40.00 required, 0.00 completed, 40.00 needed

### Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type
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**Major GPA**
- **Satisfied:** A minimum 2.0 GPA is required in the major coursework. The major GPA shall include all UA courses offered/crosslisted by the HWR department, whether they are required or not.
  - **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

### Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type
---|---|---|---|---|---|---|---|---
## 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.