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.

- 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 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:** Complete 1 course from MATH 122B,124,125,129,223 TO 499.

**GE Substantial Math Strand**  
**Not Satisfied:** Complete 1 course from MATH 122B,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 129, MATH 215, MATH 223, MATH 254, MATH 313
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**

**Not Satisfied:** Complete 3 courses. Complete ENGL 106 AND ENGL 101/107 AND ENGL 102/108.

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

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**Courses Available**

ENGL 101, ENGL 101A, ENGL 103H, ENGL 107, ENGL 107A, ENGL 102, ENGL 104H, 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 103H, ENGL 107, ENGL 107A, ENGL 102, ENGL 104H, 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
**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, CRL 197A, FREN 102, FREN 112, GER 102, GRK 102, GRK 104, ITAL 102, ITAL 102Z, JPN 102, LAT 102, LING 104B, LING 307B, MENA 103B, PORT 102, PRS 102, RSSS 101B, SERP 370B, SPAN 102, SPAN 103, TURK 102

**General Education Tier I**

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

**Tier I Individuals & Societies**

**Not Satisfied:** Complete 2 courses.

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

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**Courses Available**

(***)(###), ANTH 150B1, ART 150B1, ART 150B2, EDP 150B1, ENGL 150B1, ESOC 150B1, FREN 150B1, FSHD 150B1, GEOG 150B1, GER 150B1, GWS 150B1, GWS 150B2, GWS 150B3, GWS 150B4, HNRS 150B1, HNRS 150B2, ITAL 150B1, LAR 150B1, LAS 150B1, MAS 150B1, MAS 150B2, MIS 150B1, PA 150B1, PHIL 150B1, POL 150B1, RCSC 150B1, RCSC 150B2, RELI 150B1, RSSS 150B1, SOC 150B1, SOC 150B2, TLS 150B1, AED 150A1, ANTH 150A1, ART 150A1, GER 150A1, HNRS 150A1, LING 150A1, MIS 150A1, PHIL 150A1, POL 150A1, PSY 150A1, AED 150C1, AREC 150C1, AREC 150C2, ECON 150C1, GEOG 150C1, HIST 150C1, HIST 150C2, HIST 150C3, HIST 150C4, HIST 150C5, HIST 150C6, HNRS 150C1, JOUR 150C1, MAS 150C1, MENA 150C1, PHIL 150C1, PLP 150C1, POL 150C1, POL 150C2, POL 150C3, RNR 150C1, SOC 150C1, SOC 150C2, TLS 150C1

**Tier I Traditions & Cultures**

**Not Satisfied:** Complete 2 courses.

- **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 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**

AFAS 200, AFAS 222, AFAS 224, AFAS 230, AFAS 245, AFAS 249, AFAS 255, AFAS 310, AFAS 314, AFAS 320, AFAS 342, AFAS 365, AFAS 373, AFAS 374, AFAS 377, AFAS 381, AIS 212, AIS 381, ANTH 222, ANTH 300, ARC 303, ARH 300, ARH 329, ART 329, CHN 245, CLAS 220, CLAS 221, CLAS 260, CLAS 300, CLAS 329, CLAS 335, CLAS 342, CLAS 346, ENGL 220A, ENGL 220B, ENGL 230, ENGL 231, ENGL 245, ENGL 248B, ENGL 260, ENGL 265, ENGL 267, ENGL 280, ENGL 342, ENGL 375, ENGL 377, ENGV 360, FREN 245, FREN 249, FREN 280, FREN
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

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Not Satisfied: One course must be taken that focuses on Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

### 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 (RG521)
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 Mathematics (RG772)
Overall Requirement Not Satisfied: Common requirements for the BS in Mathematics, including completion of: Introductory Chemistry or Natural Sciences, Application courses, and Core Mathematics courses.

Equivalent MATV courses may be available through UA South. For approved courses consult with your advisor.

Mathematics Introductory Chemistry (R1273)
Overall Requirement Not Satisfied: BS students must complete a two-semester sequence in a laboratory science. Complete a Chemistry sequence OR select one of the Natural Science sequences in the next section below (including Physics, Biology, Physiology, or Geosciences). Courses used to fulfill this requirement may also be used to fulfill other requirements.

Option 1: Introductory Chemistry (R1273/L10)
Not Satisfied: Complete CHEM 103A and 104A

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available
CHEM 103A, CHEM 104A

OR Option 2: Introductory Chemistry (R1273/L20)
Not Satisfied: OR Complete Chem 151

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

CHEM 151, Approved Transfer Course

OR Option 3: Introductory Chemistry

Not Satisfied: OR Complete CHEM 105A and 106A

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

CHEM 103B, CHEM 104B

OR Option 2: Introductory Chemistry II

Not Satisfied: OR Complete CHEM 152

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

CHEM 105B, CHEM 106B

OR Option 3: Introductory Chemistry II

Not Satisfied: OR Complete CHEM 105B and 106B

- Courses: 2.00 required, 0.00 completed, 2.00 needed
### Courses Available

**CHEM 105B, CHEM 106B**

### OR Mathematics Natural Sciences

Not Satisfied: BS students must complete a two-semester sequence in a laboratory science. Complete one of the Natural Science sequences (including Physics, Biology, Physiology, or Geosciences) OR select one of the Chemistry sequences above. Courses used to fulfill this requirement may also be used to fulfill other requirements.

**Option 1: Geosciences**

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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**AND Option 1: Geosciences**

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

**Option 2: Biology**

Not Satisfied: OR Complete 4 units

- Units: 4.00 required, 0.00 completed, 4.00 needed

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**OR Option 2: Biology**

Not Satisfied: OR Complete 4 units

- Units: 4.00 required, 0.00 completed, 4.00 needed

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</table>
AND Option 2: Biology
  Not Satisfied: Complete 4 units
  - Units: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available
  ECOL 182L, ECOL 182R, Approved Transfer Course

OR Option 3: Physiology
  Not Satisfied: Complete 2 courses
  - Courses: 2.00 required, 0.00 completed, 2.00 needed

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  PSIO | 201     |             |              |       |       |       |       |      |
  PSIO | 202     |             |              |       |       |       |       |      |

Courses Available
  PSIO 201, PSIO 202

OR Option 5: Introductory Mechanics
  Not Satisfied: OR Complete one course from Physics 141, 151, 161H.
  - Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available
  PHYS 141, PHYS 151, PHYS 161H

AND Option 5: Intro Thermodynamics & Optics or Electricity & Magnetism
  Not Satisfied: AND Complete 1 course from Physics 142, 241, 152, 162H.
  - Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available
PHYS 142, PHYS 152, PHYS 162H, PHYS 241

**Mathematics Application Courses**

*Not Satisfied:* Complete at least 6 units of non-math coursework with a prerequisite or corequisite of at least Calculus I (MATH 122B or higher). Courses used to fulfill this requirement may also be used to fulfill other requirements.

This requirement does not apply to the Mathematics Education Option.

**Courses with Calculus Prerequisite**

*Not Satisfied:* Consult with the advisor to discuss approved courses.

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

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**Courses Available**


**Math Major Core Requirements**

**Overall Requirement Not Satisfied:** Math Major Core Requirements

**Calculus I**

*Not Satisfied:* Complete 1 course

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

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</table>

**Courses Available**

MATH 122B, MATH 124, MATH 125

**Computer Science**

*Not Satisfied:* Complete 1 course. See next line for alternative programming courses. The programming course may be double-dipped with a minor, provided the minor department allows it.

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

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</table>
Courses Available

CSC 127A, ISTA 130

OR Alternative to Computer Science Course

Not Satisfied: OR complete 1 course. Either CSC 127A or ISTA 130 is recommended for most students. This alternative group of courses may require prior programming experience, additional prerequisites, and/or a major or minor declared in another subject.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CSC 227, ECE 175, MIS 301, MSE 350, PHYS 305

Core Courses

Not Satisfied: Complete 5 courses

- Courses: 5.00 required, 0.00 completed, 5.00 needed

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Courses Available

MATH 129, MATH 223, MATH 313, MATH 323, MATH 355, MATV 355

Emphasis in Life Sciences Mathematics

Overall Requirement Not Satisfied: Emphasis in Life Sciences Mathematics

Equivalent MATV courses may be available through UA South. For approved courses consult with your advisor.

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Life Sciences Emphasis Requirements

Overall Requirement Not Satisfied: Life Sciences Emphasis Requirements

Life Sciences Required Courses

Not Satisfied: Complete 3 courses. Students should plan to take MATH 485 in their final Spring semester; MATH 422 should be taken earlier, when possible.

- Courses: 3.00 required, 0.00 completed, 3.00 needed

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<tr>
<th>Term</th>
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<td>MATH</td>
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</table>
Courses Available

MATH 422, MATH 464, MATH 485

Elective 1

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

MATH 454, MATH 456

Elective 2

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

MATH 466, MATH 468

Elective 3

Not Satisfied: Choose 1 upper-division course with approval from your math faculty advisor. MATH 302A/B and MATH 406A/B will not fulfill this requirement.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ADVR 101

Life Sciences Emphasis Graduation Requirements

Overall Requirement Not Satisfied: Life Sciences 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.

- **GPA:** 2.000 required, 0.000 completed

**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 400-level Upper Division**

*Not Satisfied:* A minimum of 15 units of 400-level upper-division major coursework must be completed.

- **Units:** 15.00 required, 0.00 completed, 15.00 needed

**Minor Required**

*Not Satisfied:* A minor is required for this major.

You must complete 1 of the following:

- Biochemistry Minor
- Biology Minor
- Ecology & Evolutionary Biology Minor
- Molecular & Cellular Biology Minor
- Physiological Sciences Minor
- Physiology Minor
- Thematic Minor
- Biosystems Engineering Minor
- PreHealth Thematic Minor
- Astrobiology Minor
- Environmental Sciences Minor
- Biochemistry Major
Biochemistry 2 Major (Secondary)
Ecology & Evolutionary Biology Major
Ecology & Evolutionary Biol 2 Major (Secondary)