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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Page 2 of 14
### 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

#### 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

#### 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

#### 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.

**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 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: 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.

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Tier II Arts

Not Satisfied: Complete 3 units.

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

Courses Available

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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

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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

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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.
BS in Molecular and Cellular Biology

Overall Requirement Not Satisfied: Bachelor of Science in Molecular and Cellular Biology

MCB Foundation Courses

Overall Requirement Not Satisfied: Courses used to fulfill this requirement may also be used to fulfill other requirements.

1. Option I: First Semester Fundamentals in Chemistry
   Not Satisfied: Complete 1 course
   - Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CHEM 151, First Semester Chemistry

OR 1. Option II: First Semester Honors Fundamentals in Chemistry
   Not Satisfied: Complete 2 courses
   - Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

CHEM 105A, CHEM 106A

2. Option I: Second Semester Fundamentals in Chemistry
   Not Satisfied: Complete 1 course
   - Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CHEM 152, (***)(###)

2. OR Option II: Second Semester Honors Fundamentals in Chemistry
   Not Satisfied: Complete 2 courses
   - Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

CHEM 105B, CHEM 106B

3. First Semester Organic Chemistry Lecture
Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CHEM 241A, CHEM 242A, CHEM 246A

4. First Semester Organic Chemistry Lab
Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CHEM 243A, CHEM 244A, CHEM 247A

5. Second Semester Organic Chemistry Lecture
Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CHEM 242B, CHEM 246B, CHEM 241B, (**) (###)

6. Second Semester Organic Chemistry Lab
Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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</table>
### Courses Available

**CHEM 243B, CHEM 244B, CHEM 247B**

7. **Math Requirement I**

   **Not Satisfied:** Complete 1 course

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

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### Courses Available

**MATH 122B, MATH 124, MATH 125, MATH 125-CC, MATH 250A**

8. **Math Requirement II**

   **Not Satisfied:** Complete 1 course

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

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### Courses Available

**MATH 129, MATH 129-CC, MATH 250B, MATH 263, MATH 263-CC**

9. **Option I: Introductory Physics**

   **Not Satisfied:** Complete 8 units.

   - **Units:** 8.00 required, 0.00 completed, 8.00 needed

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### Courses Available

**PHYS 102, PHYS 102-CC, PHYS 102-SA, PHYS 103, PHYS 103-CC, PHYS 181, PHYS 181-SA, PHYS 182**

9. **OR Option II: Introductory Physics with Calculus**

   **Not Satisfied:** Complete 8 units.

   - **Units:** 8.00 required, 0.00 completed, 8.00 needed

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MCBBS

Courses Available

PHYS 141, PHYS 241

9. OR Option III: Honors Physics
   Not Satisfied: Complete 8 units.
   - Units: 8.00 required, 0.00 completed, 8.00 needed

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Courses Available

PHYS 161H, PHYS 261H

Molecular and Cellular Biology Major
   Overall Requirement Not Satisfied: In addition to the following courses, organic chemistry courses also count in the major GPA.

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

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Courses Available

MCB 181L, MCB 181R

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

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Courses Available

MCB 184

2. Introductory Biology II
   Not Satisfied: Complete 2 courses
   - Courses: 2.00 required, 0.00 completed, 2.00 needed
Courses Available

ECOL 182L, ECOL 182R

3. Cell Biology and Molecular Biology and Genetics

Not Satisfied: Complete 2 courses

· Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available

MCB 304, MCB 305

4. Biochemistry

Not Satisfied: Complete 1 course

· Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available

BIOC 385, BIOC 462A

5. Upper Division Electives

Not Satisfied: Complete 12 units. A minimum of 12 upper division MCB units beyond the core courses is required. A minimum of 1 course from each area below (Core Elective, Lab Requirement, and Writing Emphasis Requirement) should be taken in these 12 units.

· Units: 12.00 required, 0.00 completed, 12.00 needed

Courses Available

6. Core Elective

**Not Satisfied:** Complete 1 course. Courses used to fulfill this requirement may also be used to fulfill other requirements.

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

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**Courses Available**


7. Lab Requirement

**Not Satisfied:** Complete 3 units. Courses used to fulfill this requirement may also be used to fulfill other requirements.

If MCB 392, 492, 499, or 499H are selected, the course must be taken for 3 units.

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

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**Courses Available**


8. Writing Emphasis Requirement

**Not Satisfied:** Complete 1 course. Courses used to fulfill this requirement may also be used to fulfill other requirements.

- **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>
<th>Course Title</th>
<th>Grade</th>
<th>Units</th>
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**Courses Available**


**Molecular and Cellular Biology Major Graduation Requirements**

**Overall Requirement Not Satisfied:** Molecular and Cellular Biology Major 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 or a grade of C or higher in a MCB Writing Emphasis Course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Major Units

Not Satisfied: A minimum of 32 units must be completed in the major.

- Units: 32.00 required, 0.00 completed, 32.00 needed

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Major GPA

Satisfied: A minimum 2.0 GPA is required in the major coursework and organic chemistry coursework.

- Units: 0.00 completed
- 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

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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.

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