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.

The following requirements must be met for graduation.

Units Required and Cumulative GPA

Not Satisfied: 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

Not Satisfied: A minimum of 18 of the final 30 units taken toward degree requirements must be in residence at The University of Arizona.

- Units: 18.00 required, 0.00 completed, 18.00 needed
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 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. Success Course 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
Courses Available

MATH 124, MATH 125, MATH 125-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 103H, ENGL 107

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
GE Foundation Second Language not required

Satisfied: There is no second language required for your major.

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 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

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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

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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

AFAS 200, AFAS 222, AFAS 224, AFAS 245, AFAS 245-CC, AFAS 249, AFAS 255, AFAS 315, AFAS 320, AFAS 365, AFAS 381, ANTH 222, ARH 300, ARH 329, ART 329, CHN 245, CLAS 220, CLAS 221, CLAS 221-SA, CLAS 260, CLAS 300, CLAS 300-SA, CLAS 329, CLAS 342, CLAS 346, ENGL 220A, ENGL 220B, ENGL 231, ENGL 245, ENGL 245-CC,
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

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

INDV 101 will only fulfill this area if topic taken is "Race, Ethnicity, and the American Dream".

- 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.)

BSBME in Biomedical Engineering
(Overall Requirement Not Satisfied: Bachelor of Science in Biomedical Engineering)

Foundation Science
(Overall Requirement Not Satisfied: Complete the following requirements)

1. Option I: Calculus
(Not Satisfied: Complete 2 courses)
- Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available
- MATH 129, MATH 129-CC, MATH 254, MATH 254-CC

OR 1. Option II: Calculus
(Not Satisfied: Complete 2 courses)
- Courses: 2.00 required, 0.00 completed, 2.00 needed
### Courses Available

#### MATH 250A, MATH 250B

2. **Vector Calculus**
   
   **Not Satisfied**: Complete 1 course
   
   - **Courses**: 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

#### MATH 223, MATH 223-CC

3. **Physics**
   
   **Not Satisfied**: Complete 2 courses.
   
   - **Courses**: 2.00 required, 0.00 completed, 2.00 needed

### Courses Available

#### PHYS 141, PHYS 241

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

### Courses Available

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

5. **Introductory Chemistry II**
   
   **Not Satisfied**: Complete 4 units
   
   - **Units**: 4.00 required, 0.00 completed, 4.00 needed
### Courses Available

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

6. Biology I and Physiology I  
**Not Satisfied:** Complete 8 units. A maximum of one course may be taken from MCB181R and MCB 184.

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

### Courses Available

**MCB 181L, MCB 181R, PSIO 201, MCB 184**

7. Biology II or Physiology II  
**Not Satisfied:** Complete 4 units

- **Units:** 4.00 required, 0.00 completed, 4.00 needed

### Courses Available

**ECOL 182L, ECOL 182R, PSIO 202**

**Biomedical Engineering Major**

**Overall Requirement Not Satisfied:** Complete the following requirements

#### Foundation Engineering

**Not Satisfied:** Complete 18 units. A maximum of one course may be taken from ABE 423 and AME 301. A maximum of one course may be taken from CE 218 and AME 331.

- **Units:** 18.00 required, 0.00 completed, 18.00 needed  
- **Courses:** 0.00 completed
### Biomedical Engineering

**Not Satisfied:** Complete 5 courses

- **Courses:** 5.00 required, 0.00 completed, 5.00 needed

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### Capstone Design

**Not Satisfied:** Complete 6 units.

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

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### Thrust Area Technical Electives

**Overall Requirement Not Satisfied:** Choose one thrust area: Biomechanics, Biomaterials, or Biosensors/Microtechnologies and take the appropriate technical electives.

#### Biomechanics

**Not Satisfied:** Complete 4 courses.

- **Units:** 4.00 required, 0.00 completed, 4.00 needed
- **Courses:** 0.00 completed

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### Courses Available

- ABE 205, ABE 284, CE 214, ECE 207, SIE 305, SIE 305-CC, SIE 305-SA, ABE 423, AME 301, AME 331, CE 218, ENGR 102

- ABE 447, BME 295C

- ENGR 498A, ENGR 498B

- AME 302, AME 324A, AME 466, AME 483, BME 466, BME 483
BMEBSBME

**Biomaterials**

**Not Satisfied:** Complete 5 courses. A maximum of one course may be taken from BME 461 or MSE 461.

- **Courses:** 5.00 required, 0.00 completed, 5.00 needed

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**Courses Available**

ABE 481B, ABE 486, BME 481B, BME 486, CHEE 481B, CHEM 241A, CHEM 243A, MSE 461, (***) (###)

**Biosensors/Microtechnologies**

**Not Satisfied:** Complete 5 courses.

- **Courses:** 5.00 required, 0.00 completed, 5.00 needed

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**Courses Available**

ABE 486, ABE 488, ABE 489A, AME 488, AME 489A, BME 486

**Additional Technical Electives**

**Not Satisfied:** Complete 8 units in consultation with advisor.

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

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**Biomedical Engineering Graduation Requirements**

**Overall Requirement Not Satisfied:** Biomedical Engineering 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
Major Units

Not Satisfied: A minimum of 36 units must be completed in the major.

- Units: 36.00 required, 0.00 completed, 36.00 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.