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

GE Substantial Math Strand
Not Satisfied: Complete 1 course.
- Units: 2.67 required, 0.00 completed, 2.67 needed
- Courses: 0.00 completed

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

Courses Available
MATH 122B, 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:* 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 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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**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 230, AFAS 245, AFAS 245-CC, AFAS 249, AFAS 255, AFAS 310, AFAS 314, AFAS 320, AFAS 342, AFAS 365, AFAS 373, AFAS 374, AFAS 375, AFAS 381, AIS 381, ANTH 222, ANTH 300, ARH 300, ARH 329, ART 203, ART 242, ART 329, ART 358-SA, CLAS 300, CLAS 329, CLAS 335, CLAS 335-SA, CLAS 342, CLAS 346, ENGL 220A, ENGL 220B, ENGL 230, ENGL 231, ENGL 245, ENGL 245-CC, ENGL 248B, ENGL 260, ENGL 260-SA, ENGL 265, ENGL 265-CC, ENGL 267, ENGL 267- SA, ENGL 280, ENGL 342, ENGL 375, ENG3 360, FREN 245, FREN 245-CC, FREN 249, FREN 280, FREN 280-SA,

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.

- 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. In order to take Advanced Courses in this major, a student must achieve Advanced Standing. This requires a GPA of 2.75 in the Foundation Coursework listed below.

Engineering Foundation Coursework

Overall Requirement Not Satisfied: Departments require a specific GPA in Advanced Standing Requirement courses.

Math - Calculus I

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

MATH 122B, MATH 124, MATH 125, MATH 125-CC
Math - Calculus II
Not Satisfied: Complete 3 units.
- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available
MATH 129, MATH 129-CC, MATH 250A

Math - Vector Calculus
Not Satisfied: Complete 4 units.
- Units: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available
MATH 223, MATH 223-CC

Math - Differential Equations
Not Satisfied: Complete 3 units.
- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available
MATH 250B, MATH 254, MATH 254-CC

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

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Courses Available
CHEM 151, Approved Transfer Course, CHEM 103A, CHEM 103A-CC, CHEM 104A, CHEM 105A, CHEM 106A
Science - Gen Chemistry II
   **Not Satisfied:** Complete 4 units.
   · **Units:** 4.00 required, 0.00 completed, 4.00 needed

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Courses Available
   CHEM 152, Approved Transfer Course, CHEM 103B, CHEM 103B-CC, CHEM 104B, CHEM 105B, CHEM 106B

Science - Intro Mechanics Physics
   **Not Satisfied:** Complete 4 units.
   · **Units:** 4.00 required, 0.00 completed, 4.00 needed

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Courses Available
   PHYS 141, PHYS 161H

Science - Intro Elec & Magnetism Physics
   **Not Satisfied:** Complete 4 units.
   · **Units:** 4.00 required, 0.00 completed, 4.00 needed

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Courses Available
   PHYS 241, PHYS 261H

Science - Mollecular and Cellular Biology
   **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, MCB 184

Science - PSIO I

Not Satisfied: Complete 4 units.

- Units: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available

PSIO 201

Science - PSIO II OR Ecology II

Not Satisfied: Complete 4 units.

- Units: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available

PSIO 202, ECOL 182L, ECOL 182R, Approved Transfer Course

Engineering Courses - Biomedical

Not Satisfied: Complete 7 units. Complete 1 course from BME 214 or CE 214

- Units: 7.00 required, 0.00 completed, 7.00 needed

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Courses Available

BME 210, BME 214, BME 295C, CE 214

Engineering Courses - Additional Courses I

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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**Courses Available**

ENGR 102A, ENGR 102B, ENGR 102

**Engineering Courses - Biomedical Additional Courses II**

**Not Satisfied:** Complete 3 units.

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

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**Courses Available**

ABE 284, AME 230

**Engineering Courses - Biomedical Additional Courses III**

**Not Satisfied:** Complete 3 units.

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

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**Courses Available**

ECE 175

**English Composition**

**Not Satisfied:** Complete 6 units.

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

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**Courses Available**

ENGL 102, ENGL 104H, ENGL 108, ENGL 101, ENGL 101A, ENGL 103H, ENGL 107, ENGL 107A

OR **English Composition**

**Not Satisfied:** Complete 3 units.

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

ENGL 109H

**Biomedical Engineering Advanced Courses**

**Overall Requirement Not Satisfied:** Biomedical Engineering Advanced Courses

1. **Biomedical Engineering Advanced Courses I**
   **Not Satisfied:** Complete 8 units.
   - Units: 8.00 required, 0.00 completed, 8.00 needed

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**Courses Available**

BME 330, BME 480, BME 497G

2. **Additional Engineering Advanced Courses I**
   **Not Satisfied:** Complete 12 units.
   - Units: 12.00 required, 0.00 completed, 12.00 needed

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**Courses Available**

ABE 447, BME 447, AME 331, BME 331, ENGR 498A, ENGR 498B

3. **Additional Engineering Advanced Courses I**
   **Not Satisfied:** Complete 3 units.
   - Units: 3.00 required, 0.00 completed, 3.00 needed

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</table>
Courses Available

MATH 322, ABE 423, AME 301, ECE 330A

4. Additional Engineering Advanced Courses III
Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

MATH 363, SIE 305, SIE 305-CC, SIE 305-SA

Biomedical Engineering Tracks
Not Satisfied: Biomedical Engineering Tracks

1. Biosensors Track Courses
Not Satisfied: Complete 12 units.

- Units: 12.00 required, 0.00 completed, 12.00 needed

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Courses Available

ABE 486, ABE 489A, AME 489A, BME 416, BME 485, BME 486

AND 2. Biosensors Technical Electives
Not Satisfied: Complete 9 units. Choose in consultation and with approval from advisor.

- Units: 9.00 required, 0.00 completed, 9.00 needed

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Courses Available

ABE 452, ABE 452-SA, ABE 481B, AME 324A, AME 324B, AME 466, BIOL 384, BME 417, BME 466, BME 481B, BME 492, BME 511, CHEE 420, CHEE 481B, CHEM 480A, ECE 417, ENGR 452, MATH 310, MATH 413, MATH 422, MATH 454, MATH 454-CC, MCB 404, MSE 461, PHCL 412, PHYS 430, PSIO 431, PSIO 465, PSIO 511, PSY 383, PSY 383-CC, PSY 383-SA
OR 1. Biomechanics Track Courses I  
**Not Satisfied:** Complete 12 units. Complete one course from AME 324A or MSE 331R.

- **Units:** 12.00 required, 0.00 completed, 12.00 needed

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**Courses Available**

AME 302, AME 324A, AME 466, AME 483, BME 466, BME 483, MSE 331R

AND 3. Biomechanics Technical Electives  
**Not Satisfied:** Complete 9 units. Choose in consultation and with approval from advisor.

- **Units:** 9.00 required, 0.00 completed, 9.00 needed

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**Courses Available**


OR 1. Biomaterials Track Courses I  
**Not Satisfied:** Complete 13 units. Complete only 4 units between CHEM 241A, 243A, 242A, 244A or AME 466

- **Units:** 13.00 required, 0.00 completed, 13.00 needed

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**Courses Available**

ABE 481B, ABE 486, AME 466, BME 466, BME 481B, BME 486, CHEE 481B, MSE 461, CHEM 241A, CHEM 243A, Approved Transfer Course, CHEM 242A, CHEM 244A

AND 4. Biomaterials Technical Electives  
**Not Satisfied:** Complete 8 units. Choose in consultation and with approval from advisor.
· **Units**: 8.00 required, 0.00 completed, 8.00 needed

### Courses Available

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**OR 1. Pre Health Track Courses**

**Not Satisfied**: Complete 20 units.

· **Units**: 20.00 required, 0.00 completed, 20.00 needed

### Courses Available

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**AND 2. Pre Health Track Technical Electives**

**Not Satisfied**: Complete 1 unit. Choose in consultation and with approval from advisor.

· **Units**: 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

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**Biomedical Engineering Graduation Requirements**

**Overall Requirement Not Satisfied**: Biomedical Engineering Graduation Requirements

**Mid Career Writing Assessment**

(R3051/L20)
**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.

- **Units:** 0.00 completed
- **GPA:** 2.00 required, 0.00 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.