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

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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

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:

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

Courses Available

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OR Option 2: Tier II Humanities

Not Satisfied:

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

Courses Available

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AND Tier II Individual & Societies  
(R2778/L30)

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  
(R531)

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  
(R531/L10)

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

**BEBSBE UENGR BEBSBE**


**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.

**BSBE in Biosystems Engineering**

Overall Requirement Not Satisfied: BSBE in Biosystems Engineering. In order to take Advanced Courses in this major, a student must achieve Advanced Standing. This requires a GPA of 2.00 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

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 - Molecular and Cellular Biology OR Plant Science**

*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, PLS 240**

**Science - Microbiology OR PSIO I OR Ecology II**

*Not Satisfied:* Complete 4 units.

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

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### Courses Available

**MIC 205A, MIC 205L, ECOL 182L, ECOL 182R, Approved Transfer Course, PSIO 201**

**Engineering Courses - Biosystems**

*Not Satisfied:* Complete 8 units.

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

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**Courses Available**

ABE 201, ABE 205, ABE 284

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 - Biosystems Additional Courses II

*Not Satisfied:* Complete 3 units.

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

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**Courses Available**

CE 214

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
### Biosystems Engineering Advanced Courses

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

1. **Biosystems Engineering Math**
   - **Not Satisfied:** Complete 7 units. Complete 1 course from either MATH 250B or MATH 254
   - **Units:** 7.00 required, 0.00 completed, 7.00 needed

2. **Biosystems Engineering Advanced Core Courses I**
   - **Not Satisfied:** Complete 17 units. 17 units of Advanced Core units consist of the following: 3 units from ABE 221, 3 units from ABE 423, 3 units from ABE 447, 1 unit from ABE 496A, 3 units from ABE 498A, 3 units from ABE 498B, 1 unit from ABE 393. Additional units taken through ABE 393 may not be used to substitute for or replace those for the Advanced Core Courses II.
   - **Units:** 17.00 required, 0.00 completed, 17.00 needed

3. **Biosystems Engineering Advanced Core Courses II**
   - **Not Satisfied:** Complete 3 units. Students must choose, in consultation with an BE Advisor, a 3 unit ABE 400 level course, or AME 431, or AME 432. Students will not be able to double dip with the BE major courses.
   - **Units:** 3.00 required, 0.00 completed, 3.00 needed
Courses Available


4. Biosystems Engineering Advanced Design Courses  
(R15606/L40)

Not Satisfied: Complete 9 units. Students will not be able to double dip with courses between the major. BE Design Electives should be chosen in consultation with an advisor.

- Units: 9.00 required, 0.00 completed, 9.00 needed

Courses Available


5. Additional Engineering Courses I  
(R15606/L50)

Not Satisfied: Complete 9 units.

- Units: 9.00 required, 0.00 completed, 9.00 needed

Courses Available

ENGR 265, SIE 265, SIE 305, SIE 305-CC, SIE 305-SA, AME 324A

6. Additional Engineering Courses II  
(R15606/L60)

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

Courses Available

AME 331, BME 331, CE 218
7. Additional Courses  
**Not Satisfied:** Complete 3 units.

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

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**Courses Available**

AGTM 422, ENGL 308, ENGV 308

**Biosystems Engineering Technical Electives**

**Not Satisfied:** Biosystems Engineering Technical Electives

1. Biosystems Technical Electives  
**Not Satisfied:** Complete 9 units. Students will not be able to double dip with courses between the major. BE Technical Electives should be chosen in consultation with an advisor.

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

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**Courses Available**

Biosystems Engineering Graduation Requirements

Overall Requirement Not Satisfied: Biosystems 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 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 Residency

Not Satisfied: A minimum of 18 units in the 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.