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
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
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 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

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

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</table>

Courses Available
MATH 124, MATH 125, MATH 125-CC, MATH 122B

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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</table>

Courses Available

ENGL 101, ENGL 101A, 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

**Courses Available**


**Tier I Traditions & Cultures**

Consists of courses requiring completion of two distinctly numbered courses (e.g., TRAD 102 & 104 or AFAS 160C2 & RSS 160C1 or TRAD 101 & RSS 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:

- Complete 3 units.

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

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</table>

**Courses Available**


**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**


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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</table>

**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.

**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.

BSAEE in Aerospace Engineering

Overall Requirement Not Satisfied: Bachelor of Science in Aerospace Engineering

AEE Advanced Standing Courses

Overall Requirement Not Satisfied: AEE Advanced Standing Courses

The following coursework must be completed to achieve Advanced Standing. A GPA of 2.750 is required for the Advanced Standing Requirement courses.

First Semester Composition

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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</table>

Courses Available

ENGL 101, ENGL 101A, ENGL 103H, ENGL 107

Second Semester Composition

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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</table>
Courses Available

ENGL 102, ENGL 104H, ENGL 108, ENGL 109H

First Semester Chemistry

*Not Satisfied:* Complete 4 units consisting of a lecture and lab.

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

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Courses Available

CHEM 151, CHEM 103A, CHEM 103A-CC, CHEM 104A, CHEM 105A, CHEM 106A

Second Semester Chemistry

*Not Satisfied:* Complete 1 course

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

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Courses Available

CHEM 103B, CHEM 103B-CC, CHEM 105B, CHEM 152, (***) (###), MSE 110

Physics Courses

*Not Satisfied:* Complete 2 courses.

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

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Physics Courses

PHYS 141, PHYS 241

Mathematics Requirement I

*Not Satisfied:* Complete 1 course.

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

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Courses Available

MATH 124, MATH 125, MATH 125-CC

Mathematics 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 250A

Mathematics Requirement III

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

MATH 223, MATH 223-CC

Mathematics Requirement IV

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

MATH 250B, MATH 254, MATH 254-CC

Engineering Courses

Not Satisfied: Complete 5 courses.

- Courses: 5.00 required, 0.00 completed, 5.00 needed

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| AME  | 230     |             |              |       |       |       |       |      |
| AME  | 250     |             |              |       |       |       |       |      |
| CE   | 214     |             |              |       |       |       |       |      |
| ECE  | 207     |             |              |       |       |       |       |      |
| ENGR | 102     |             |              |       |       |       |       |      |
Courses Available

AME 230, AME 250, CE 214, ECE 207, ENGR 102

Supporting Course Work

Overall Requirement Not Satisfied: Supporting Course Work

Core Courses
Not Satisfied: Complete 5 courses.

- Courses: 5.00 required, 0.00 completed, 5.00 needed

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<tr>
<td>MSE</td>
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</tbody>
</table>

Courses Available

AME 324L, CE 214, ECE 207, ENGR 102, MSE 331R

Mathematics Courses
Not Satisfied: Complete 3 courses.

- Courses: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

MATH 129, MATH 129-CC, MATH 223, MATH 223-CC, MATH 254, MATH 254-CC

First Semester Chemistry
Not Satisfied: Complete 4 units consisting of a lecture and lab.

- Units: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available

CHEM 151, CHEM 103A, CHEM 103A-CC, CHEM 104A, CHEM 105A, CHEM 106A

Second Semester Chemistry
Not Satisfied: Complete 1 course

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

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**Courses Available**

CHEM 103B, CHEM 103B-CC, CHEM 105B, CHEM 152, (***) (###), MSE 110

**Physics Courses**

- **Not Satisfied**: Complete 2 courses.

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

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**Courses Available**

PHYS 141, PHYS 241

**Aerospace Engineering Major Courses**

- **Overall Requirement Not Satisfied**: The Major GPA includes all UA-AME courses, including those crosslisted with AME, regardless of whether they satisfy specific major requirements.

1. **Major Core**

- **Not Satisfied**: Complete 21 courses.

- **Courses**: 21.00 required, 0.00 completed, 21.00 needed

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Courses Available

AME 230, AME 250, AME 300, AME 301, AME 302, AME 320, AME 321, AME 323, AME 324A, AME 324B, AME 324L, AME 331, AME 401, AME 413A, AME 413B, AME 420A, AME 424, AME 425, AME 427, AME 455, AME 495S

2. AME Design Option

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

AME 422A, AME 428A

3. Finite Element Course

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

AME 463

4. Technical Electives

Not Satisfied: Complete 6 units of technical electives.

- Units: 6.00 required, 0.00 completed, 6.00 needed

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Courses Available

ABE 488, ABE 489A, ABE 489B, AME 426, AME 430, AME 431, AME 432, AME 433, AME 442, AME 444, AME 445, AME 446, AME 451, AME 452, AME 457, AME 460, AME 462, AME 466, AME 472, AME 480, AME 483, AME 488, AME 489A, AME 489B, AME 492, AME 493, AME 493-SA, AME 499, AME 499-SA, AME 499H, BME 466, BME 483

Aerospace Engineering Graduation Requirements

Overall Requirement Not Satisfied: Aerospace 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

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**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 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.