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

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</table>

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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</table>

**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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</table>

**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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</table>

**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: Complete 3 units

- Units: 3.00 required, 0.00 completed, 3.00 needed

Courses Available

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</table>

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

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

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.

BSSYE in Systems Engineering

Overall Requirement Not Satisfied: Bachelor of Science in Systems Engineering

Systems Engineering Advanced Standing

Overall Requirement Not Satisfied: The following course work must be completed with a GPA of 2.0 to achieve advanced standing:

Option 1: English Composition
Not Satisfied: Complete 2 courses

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Courses Available

ENGL 101, ENGL 101A, ENGL 103H, ENGL 107, ENGL 107A, ENGL 102, ENGL 104H, ENGL 108
OR Option 2: English Composition

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ENGL 109H

Physics

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

Mathematics

Not Satisfied: Complete 4 courses

- Courses: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available

MATH 124, MATH 125, MATH 125-CC, MATH 129, MATH 129-CC, MATH 223, MATH 223-CC, MATH 254, MATH 254-CC

First Semester Chemistry

Not Satisfied: Complete 4 units

- Units: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available
CHEM 103A, CHEM 103A-CC, CHEM 104A, CHEM 151, Approved Transfer Course, CHEM 105A, CHEM 106A

Second Semester Chemistry
Not Satisfied: Complete 4 units
· Units: 4.00 required, 0.00 completed, 4.00 needed

Courses Available
MSE 110, CHEM 152, Approved Transfer Course, CHEM 103B, CHEM 103B-CC, CHEM 104B, MCB 181L, MCB 181R

Engineering Science
Not Satisfied: Complete 3 units. Complete either ENGR102 or ENGR102A & ENGR102B.
· Units: 3.00 required, 0.00 completed, 3.00 needed

Courses Available
ENGR 102, ENGR 102A, ENGR 102B

Engineering Science
Not Satisfied: Complete 3 units.
· Units: 3.00 required, 0.00 completed, 3.00 needed

Courses Available
CSC 127A, ECE 175

Core Courses
Not Satisfied: Complete 5 courses
Grade of C or better required in SIE 250, 265, 270, 277
· Courses: 5.00 required, 0.00 completed, 5.00 needed
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**Courses Available**

ENGR 265, SIE 250, SIE 265, SIE 270, SIE 270-CC, SIE 277, SIE 295S

**System Engineering Supporting Sciences**

Overall Requirement Not Satisfied: System Engineering Supporting Sciences

First Semester Chemistry

**Not Satisfied:** Complete 4 units.

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

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Second Semester Chemistry

**Not Satisfied:** Complete 4 units

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

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**Courses Available**

CHEM 103A, CHEM 103A-CC, CHEM 104A, CHEM 151, Approved Transfer Course, CHEM 105A, CHEM 106A

**Introductory Courses**

**Not Satisfied:** Complete 6 units.

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

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System Engineering Supporting Sciences

Overall Requirement Not Satisfied: System Engineering Supporting Sciences

Introductory Courses

**Not Satisfied:** Complete 6 units.

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

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</table>
### Courses Available

**Engineering Science**

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

---

### Courses Available

**Introductory Course**

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

---

### Courses Available

**Mathematics Courses**

Not Satisfied: Complete 3 courses

- Courses: 3.00 required, 0.00 completed, 3.00 needed

---

### Courses Available

**Physics Courses**

Not Satisfied: Complete 2 courses

- Courses: 2.00 required, 0.00 completed, 2.00 needed
### Courses Available

PHYS 141, PHYS 241, Approved Transfer Work

### System Engineering Major

**Overall Requirement Not Satisfied:** System Engineering Major

#### Core Courses

**Not Satisfied:** Complete 15 courses

- **Courses:** 15.00 required, 0.00 completed, 15.00 needed

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#### Technical Electives - Lower Division

**Not Satisfied:** Complete 1 lower division technical electives course. This class must be approved by your advisor.

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

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</table>
Courses Available


Technical Electives - 300 Level

Not Satisfied: Complete 3 300 level technical electives courses. These classes must be approved by your advisor.

- Courses: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available


Technical Electives - 400 Level

Not Satisfied: Complete 2 400 level technical electives courses. These classes must be approved by your advisor.

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available


Technical Electives
- Not Satisfied: Complete 1 unit of free elective
  - Units: 1.00 required, 0.00 completed, 1.00 needed

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</table>

Courses Available

System Engineering Graduation Requirements
- Overall Requirement Not Satisfied: System 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

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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.