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
122 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 56 units of course work must be completed at a 4-year institution, military institution, or as test credit.

- Units: 56.00 required, 0.00 completed, 56.00 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

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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

### Courses Available

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AND Option 1: Second Semester Composition
Not Satisfied: AND Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

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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

### Courses Available

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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 only 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

Page 4 of 12
**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 329, CHN 245, CLAS 220, CLAS 221, CLAS 221-SA, CLAS 260, CLAS 300, CLAS 300-SA, 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, ENG 360, FREN 245, FREN 245-CC, FREN 249, FREN 280, FREN 280-SA, FREN 282,

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
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.
2. **Second Semester Chemistry**

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

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

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**Courses Available**

MSE 110

3. **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, Approved Transfer Work

4. **Option 1 Mathematics Requirement**

   **Not Satisfied:** Complete 2 courses.

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

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**Courses Available**

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

4. **Option 2 Mathematics Requirement**

   **Not Satisfied:** Complete 2 courses.

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

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**Courses Available**
5. Vector Calculus

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

6. Engineering Courses

Not Satisfied: Complete 9 units.

- Units: 9.00 required, 0.00 completed, 9.00 needed

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Courses Available

ECE 207, ENGR 102, MSE 350, ENGR 102A, ENGR 102B

7. Math Special Elective

Not Satisfied: Complete 3 units. SIE 305 recommended, 300/400 level Math courses will be accepted with advisor approval.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

MATH 302A, MATH 302B, MATH 313, MATH 315, MATH 322, MATH 323, MATH 330, MATH 355, MATH 361, MATH 362, MATH 363, MATH 368, MATH 368-CC, MATH 401A, MATH 401B, MATH 402, MATH 404, MATH 406A, MATH 406B, MATH 407, MATH 410, MATH 413, MATH 415A, MATH 415B, MATH 415B, MATH 422, MATH 424, MATH 425A, MATH 425B, MATH 432, MATH 443, MATH 445, MATH 446, MATH 447, MATH 454, MATH 454-CC, MATH 456, MATH 461, MATH 464, MATH 466, MATH 468, MATH 475A, MATH 475B, MATH 479, MATH 485, MATH 488, SIE 305, SIE 305-CC, SIE 305-SA

8. Advanced Science

Not Satisfied: Complete 3 units. Additional subject areas may count. Please check with your advisor

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available


Materials Science & Engineering Major

Overall Requirement Not Satisfied: Materials Science & Engineering Major

Materials Science Core Courses

Not Satisfied: Complete 10 courses.

- Courses: 10.00 required, 0.00 completed, 10.00 needed

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Courses Available

ENGR 498A, ENGR 498B, MSE 222, MSE 223L, MSE 223R, MSE 345, MCB 360L, MSE 365, MCB 415, MSE 480

MSE Technical Electives

Not Satisfied: Complete 12 units from MSE courses to be specified by an advisor.

- Units: 12.00 required, 0.00 completed, 12.00 needed

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Courses Available


Technical Electives

Not Satisfied: Complete 12 units. Courses in the following subject areas will be accepted with advisor approval: CHEM, PHYS, MATH, MSE, CHEE, MNE, SIE, ECE, AME, CVE, OSE, BME, ABE, EMG, BNAD, ACCT, ECON, ENGR, and MCB.

- Units: 12.00 required, 0.00 completed, 12.00 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.