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.

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
Not Satisfied: A minimum of 18 of the final 30 units taken toward degree requirements must be in residence at The University of Arizona.

- Units: 18.00 required, 0.00 completed, 18.00 needed

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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
Courses Available

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: 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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Courses Available

ENGL 101, 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

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

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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 245, AFAS 245-CC, AFAS 249, AFAS 255, AFAS 315, AFAS 320, AFAS 365, AFAS 381, ANTH 222, 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 342, CLAS 346, ENGL 220A, ENGL 220B, ENGL 231, ENGL 245, ENGL 245-CC,

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.

INDV 101 will only fulfill this area if topic taken is “Race, Ethnicity, and the American Dream”.

- **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.

BSEM in Engineering Management

Overall Requirement Not Satisfied: Bachelor of Science in Engineering Management

Engineering Management 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

- Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available

ENGL 101, ENGL 103H, ENGL 107, 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
### Courses Available

**ENGL 109H**

**Physics**

- **Not Satisfied:** Complete 2 courses
  - **Courses:** 2.00 required, 0.00 completed, 2.00 needed

**Courses Available**

- **PHYS 141, PHYS 241**

**Mathematics**

- **Not Satisfied:** Complete 4 courses
  - **Courses:** 4.00 required, 0.00 completed, 4.00 needed

**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

**Courses Available**

- **CHEM 103A, CHEM 103A-CC, CHEM 104A, CHEM 151, (***) (###), CHEM 105A, CHEM 106A**

**Second Semester Chemistry**

- **Not Satisfied:** Complete 4 units
- **Units:** 4.00 required, 0.00 completed, 4.00 needed

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**Courses Available**

MSE 110, CHEM 152, (***) (###), CHEM 103B, CHEM 103B-CC, CHEM 104B

Engineering Science I

- **Not Satisfied:** Complete 2 courses
  - **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

CSC 127A, ECE 175, ENGR 102

Engineering Science II

- **Not Satisfied:** Complete 3 units
  - **Units:** 3.00 required, 0.00 completed, 3.00 needed

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**Courses Available**

AME 230, CHEE 201, MSE 345

Engineering Science III

- **Not Satisfied:** Complete 3 units
  - **Units:** 3.00 required, 0.00 completed, 3.00 needed

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**Courses Available**

CE 214, MSE 331R, OPTI 221

Core Course

- **Not Satisfied:** Complete 1 course
  - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ENGR 265, SIE 265

Supporting Course Work

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Overall Requirement Not Satisfied: Supporting Course Work

Introductory Engineering Course

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available

ENGR 102

Additional Engineering Courses

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available

CE 303, CSC 127A, CSC 227, ECE 175

First Semester Chemistry

Not Satisfied: Complete 4 units.

- Units: 4.00 required, 0.00 completed, 4.00 needed

Courses Available

CHEM 103A, CHEM 103A-CC, CHEM 104A, CHEM 105A, CHEM 106A, CHEM 151, (***) (###)

Option 1: Second Semester Chemistry

Not Satisfied: Complete 4 units.
- **Units:** 4.00 required, 0.00 completed, 4.00 needed

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**Courses Available**

CHEM 103B, CHEM 103B-CC, CHEM 104B, CHEM 105B, CHEM 106B, CHEM 152, (***) (###)

OR Option 2: Science Requirement

Not Satisfied: Complete 1 course.

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

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**Courses Available**

MSE 110

Math and Science Requirement 1

Not Satisfied: Complete 1 course.

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

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**Courses Available**

MATH 254, MATH 254-CC, SIE 270, SIE 270-CC

Physics Requirement

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

Additional Math

Not Satisfied: Complete 2 courses.
Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

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

Probability and Statistics
Not Satisfied: Complete 1 course

Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CE 310, SIE 305, SIE 305-CC, SIE 305-SA

Engineering Management Major

Overall Requirement Not Satisfied: The Major GPA shall include all UA Engineering Management courses, including those crosslisted with Engineering Management, regardless of whether they satisfy specific major requirements.

Energy
Not Satisfied: Complete 1 course.

Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

AME 230, CHEE 201, MSE 345

Mechanics / Materials
Not Satisfied: Complete 1 course.

Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CE 214, MSE 331R
Electrical Systems

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ECE 207, ECE 220

Quality

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

MGMT 465, MIS 465, SIE 406

Core Courses

Not Satisfied: Complete 8 courses.

- Courses: 8.00 required, 0.00 completed, 8.00 needed

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Courses Available

CHEE 454, ENGR 265, ENGR 454, ENGR 467, SIE 265, SIE 340, SIE 415, SIE 431, SIE 457, SIE 462, SIE 467

Business Management Courses I

Not Satisfied: Complete ECON 330, GEOG 305, or advisor approved substitute.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ECON 330, ECON 330-CC, ECON 330-SA, GEOG 305

Business Management Courses II

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

COMM 312, ENGL 307, ENGL 308

Option 1: Senior Design Project

Not Satisfied: Complete 3 courses.

- Courses: 3.00 required, 0.00 completed, 3.00 needed

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<th>Grade</th>
<th>Units</th>
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Courses Available

ENGR 495S, SIE 498A, SIE 498B

OR Option 2: Senior Design Project

Not Satisfied: Complete 2 courses.

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

ENGR 498A, ENGR 498B

Technical Electives

Not Satisfied: Complete 18 units of course work selected in consultation with your advisor.

- Units: 18.00 required, 0.00 completed, 18.00 needed

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Courses Available

ADVR 101

Engineering Management Graduation Requirements

**Overall Requirement Not Satisfied:** Engineering Management 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 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.