**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) Candidates for a second bachelor's degree at The University of Arizona with a different award date than the first must earn no fewer than 30 units of University Credit in addition to the units required for the first degree, and must meet all requirements for the second degree.

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 125

Undergraduate General Education and Foundation Requirements
Overall Requirement Not Satisfied: Undergraduate General Education and Foundation Requirements
Foundation Composition

Not Satisfied: Complete 1 of the following 4 Foundation Composition options:
1. 3 Course Foundation Composition Sequence
2. 2 course Foundation Composition sequence
3. Honors Composition with grade of C or higher
4. 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: Foundation Composition - 3 Course Sequence


- Courses: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

ENGL 101, ENGL 101A, ENGL 107, ENGL 107A, ENGL 102, ENGL 108, ENGL 106

OR Option 2: Foundation Composition - 2 Course Sequence

Not Satisfied: Complete 2 courses. Complete ENGL 101/107 AND ENGL 102/108

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

ENGL 101, ENGL 101A, ENGL 107, ENGL 107A, ENGL 102, ENGL 108

OR Option 3: Honors Composition

Not Satisfied: 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 each of the following areas.

**Tier I Individuals & Societies**

*Not Satisfied:* Complete 2 courses, 6 units total. Transfer students with quarter system credits may satisfy Tier One requirements with 2 courses and 5.34 units.

- **Units:** 5.34 required, 0.00 completed, 5.34 needed
- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

(***) (###), AFAS 150B1, ANTH 150B1, ART 150B1, ART 150B2, EDP 150B1, ENGL 150B1, ESOC 150B1, FREN 150B1, FSHD 150B1, FTV 150B1, GEOG 150B1, GER 150B1, GWS 150B1, GWS 150B2, GWS 150B3, GWS 150B4, GWS 150B5, HNRS 150B1, HNRS 150B2, ITAL 150B1, LAR 150B1, LAS 150B1, MAS 150B1, MAS 150B2, MIS 150B1, PA 150B1, PHIL 150B1, POL 150B1, RCSC 150B1, RCSC 150B2, RELI 150B1, RSSS 150B1, RSSS 150B2, SOC 150B1, SOC 150B2, SPAN 150B1, SPAN 150B2, TES 150B1, AED 150A1, ANTH 150A1, ART 150A1, GER 150A1, HUMS 150A1, HNRS 150A1, LING 150A1, MIS 150A1, PHIL 150A1, POL 150A1, PSY 150A1, AED 150C1, AREC 150C1, AREC 150C2, ECON 150C1, GEOG 150C1, HIST 150C1, HIST 150C2, HIST 150C3, HIST 150C4, HIST 150C5, HIST 150C6, HNRS 150C1, HPS 150C1, JOUR 150C1, MAS 150C1, MENA 150C1, NSC 150C1, PHIL 150C1, PLP 150C1, POL 150C1, POL 150C2, POL 150C3, RNR 150C1, SOC 150C1, SOC 150C2, TES 150C1

**Tier I Traditions & Cultures**

*Not Satisfied:* Transfer students with quarter system credits may satisfy Tier One requirements with 2 courses and 5.34 units.

- **Units:** 5.34 required, 0.00 completed, 5.34 needed
- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**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 1 course, 3 units. Transfer students with quarter system credits may satisfy this requirement with 2.67 units.

- **Units:** 2.67 required, 0.00 completed, 2.67 needed
- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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Courses Available


OR Option 2: Tier II Humanities

Not Satisfied: Complete 1 course, 3 units. Transfer students with quarter system credits may satisfy this requirement with 2.67 units. If LAT 201 or 202 are used to fulfill Foundation Second Language Proficiency, they cannot be used to fulfill Tier II Humanities.

- **Units:** 2.67 required, 0.00 completed, 2.67 needed
- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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Courses Available


AND Tier II Individual & Societies

Not Satisfied: Complete 1 course, 3 units. Transfer students with quarter system credits may satisfy this requirement with 2.67 units. Prerequisite course work in Tier 1 Individuals and Societies (INDV) must be completed prior to taking.

- **Units:** 2.67 required, 0.00 completed, 2.67 needed
- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**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

### Courses Available


One course must be taken that focuses on Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies.

**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.

**BSEMG in Engineering Management**

Overall Requirement Not Satisfied: Bachelor of Science in Engineering Management. 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.

Choose from a minor in another engineering program or a thematic minor. The minor must be a minimum of 18 unique units chosen in consultation with a faculty advisor. Engineering Management majors may not double use major courses in an Industrial Engineering minor or a Systems Engineering minor.

**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 125

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 - Vector Calculus

Not Satisfied: Complete 4 units.

- Units: 4.00 required, 0.00 completed, 4.00 needed

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**Courses Available**

**MATH 223**

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 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 105B, CHEM 106B, MSE 110**

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

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</table>
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**

Engineering Courses - Engineering Management  
(EMGBSEM UENGR EMGBSEM)

**Not Satisfied**: Complete 7 units.

- **Units**: 7.00 required, 0.00 completed, 7.00 needed

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Courses Available

**ENGR 265, SIE 265, SIE 270, SIE 295S**

Engineering Courses - Additional Courses I  
(EMGBSEM UENGR EMGBSEM)

**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 - Engineering Mgmt Additional Courses II  
(EMGBSEM UENGR EMGBSEM)

**Not Satisfied**: Complete 3 units.

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

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Courses Available

**CSC 110, ECE 175**
Engineering Courses - Engineering Mgmt Additional Courses III

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

Engineering Courses - Engineering Mgmt Additional Courses IV

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 101, ENGL 102, ENGL 107, ENGL 108

OR English Composition

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

ENGL 109H
## Engineering Management Advanced Courses

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

### 1. Engineering Management Core I

**Not Satisfied:** Complete 24 units.

- **Units:** 24.00 required, 0.00 completed, 24.00 needed

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**Courses Available**

ENGR 367, ENGR 414, ENTR 457, SIE 305, SIE 340, SIE 367, SIE 414, SIE 415, SIE 431, SIE 457, SIE 462

### 2. Engineering Management Core II

**Not Satisfied:** Complete 3 units.

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

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**Courses Available**

MGMT 465, MIS 465, SIE 406

### 3. Engineering Management Core III

**Not Satisfied:** Complete 3 units.

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

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**Courses Available**

SIE 464

### 4. Additional Engineering Courses I

**Not Satisfied:** Complete 3 units. ECE 220 is 5 units.

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

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**Courses Available**

SIE 464
Courses Available

ECE 207, ECE 220

5. Additional Engineering Courses II
Not Satisfied: Change to 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

Courses Available

ENGR 498A

6. Additional Engineering Courses III
Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

Courses Available

ENGR 498B

7. Additional Courses
Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

Courses Available

COMM 312, ENGL 307, ENGL 308

Engineering or Thematic Minor
Not Satisfied: Choose from a minor in another engineering program or a thematic minor. The minor must be a minimum of 18 unique units chosen in consultation with a faculty advisor. Engineering Management majors may not double use major courses in an Industrial Engineering minor or a Systems Engineering minor.

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

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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 Required
Not Satisfied: A minor is required for this major. Consult with your advisor to select a minor or discuss other options such as selecting a second major.