## 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

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 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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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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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

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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 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

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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. (R2778/L10)
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. (R2778/L20)
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 322, AFAS 365, AFAS 373, AFAS 374, AFAS 375, AFAS 381, AIS 381, ANTH 222, ANTH 300, ARH 300, ARH 329, ART 329, CHN 249, CLAS 220, CLAS 221, CLAS 221-CC, CLAS 260, CLAS 300, CLAS 300-SA, CLAS 329, CLAS 335, CLAS 335-SA, CLAS 342, CLAS 346, ENGL 200A, 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, ENGV 360, FREN 245, FREN 245-CC, FREN 249, FREN 280, FREN 280-SA, FREN 282,
AND Tier II Individual & Societies  
(R2778/L30)

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  
(RS31/L10)

Not Satisfied: General Education Diversity Emphasis Course: Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies.

Courses Available


Additional Coursework (RG521)

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.

BSINE in Industrial Engineering (R1735)

Overall Requirement Not Satisfied: Bachelor of Science in Industrial Engineering

Industrial Engineering Advanced Standing (R3312)

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 (R3312/L20)
Not Satisfied: Complete 2 courses

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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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 3 courses

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

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**Courses Available**

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

**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

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**Courses Available**

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

**Engineering Science I**

Not Satisfied: Complete 3 units. Complete either ENGR102 or ENGR102A and ENGR102B.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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**Courses Available**

ENGR 102, ENGR 102A, ENGR 102B

**Engineering Science I**

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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**Courses Available**

CSC 127A, ECE 175

**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, CE 214, ECE 207, CHEE 201, ECE 220

Engineering Science III
Not Satisfied: Complete 1 unit
- Units: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available
ENGR 211C, ENGR 211E, ENGR 211F, ENGR 211I, ENGR 211K, ENGR 211M, ENGR 211R

Core Courses
Not Satisfied: Complete 5 courses
Grade of C or better required in SIE250, 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

Industrial Engineering Supporting Sciences
Overall Requirement Not Satisfied: Industrial Engineering Supporting Sciences

Introductory Courses
Not Satisfied: Complete 6 units. (Complete ENGR102 or ENGR102A & ENGR102B)
- Units: 6.00 required, 0.00 completed, 6.00 needed

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Courses Available
ENGR 102, ENGL 307, ENGL 308, ENGR 102A, ENGR 102B

Introductory Course
**Not Satisfied:** Complete 1 course

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

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**Courses Available**

CSC 127A, ECE 175

**Mathematics:**

- **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 223, MATH 223-CC

**Chemistry 1:**

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

**Chemistry 2:**

- **Not Satisfied:** Complete 4 units

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

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**Courses Available**

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

Engineering Science I

Not Satisfied: Complete 3 units.

· Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

AME 230, CE 214, ECE 207, CHEE 201, ECE 220

Engineering Science II

Not Satisfied: Complete 1 unit. ENGR 211P is not available for credit.

· Units: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ENGR 211C, ENGR 211E, ENGR 211F, ENGR 211I, ENGR 211K, ENGR 211M, ENGR 211R

Social Sciences

Not Satisfied: Complete 1 course

· Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

BNAD 302, BNAD 302-SA, PHIL 346, PSY 319, PSY 325, PSY 325-CC, PSY 326, PSY 346, PSY 352, PSY 352-CC, PSY 360, PSY 360-CC, PSY 360-SA, PSY 375, PSY 375-CC, PSY 376
## Industrial Engineering Major

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

### Core Courses

**Not Satisfied:** Complete 17 courses

- **Courses:** 17.00 required, 0.00 completed, 17.00 needed

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**Courses Available**


### Technical Electives 300 level

**Not Satisfied:** Complete 6 units to be specified by advisor.

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

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**Courses Available**

Technical Electives 400 level

Not Satisfied: Complete 6 units to be specified by advisor.

- Units: 6.00 required, 0.00 completed, 6.00 needed

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Courses Available


Industrial Engineering Graduation Requirements

| Overall Requirement Not Satisfied: Industrial Engineering Graduation Requirements |
| Mid Career Writing Assessment | (R3008) |
| 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 | (R3008-L20) |
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.