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.
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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Page 2 of 14
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 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 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

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
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 342, AFAS 365, AFAS 373, AFAS 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 342, CLAS 346, ENGL 220A,

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

Courses Available

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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

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### 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.

### BSOSE in Optical Sciences & Engineering

**Overall Requirement Not Satisfied:** Bachelor of Science in Optical Sciences & Engineering

Grade of C or better required on all pre-requisite coursework and Optics coursework.

### Optical Sciences & Engineering Advanced Standing

**Overall Requirement Not Satisfied:** The following course work must be completed with a GPA of 2.5 to achieve advanced standing:

**Option 1:** English Composition

**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 3 courses

Grade of "C" or better required in each course.

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

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**Courses Available**

- PHYS 141, PHYS 241, OPTI 240

**Mathematics**

Not Satisfied: Complete 1 course

Grade of "C" or better required in each course.

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

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**Courses Available**

- MATH 124, MATH 125, MATH 125-CC

**Mathematics**

Not Satisfied: Complete 3 courses

Grade of "C" or better required in Math 129.

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

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</table>
Courses Available

MATH 129, MATH 129-CC, MATH 223, MATH 223-CC, MATH 254, MATH 254-CC

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, First Semester Chemistry, CHEM 105A, CHEM 106A

Engineering

Not Satisfied: Complete 2 courses

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

MSE 110, ENGR 102

Core Courses

Not Satisfied: Complete 5 courses.

Grade of "C" or better required in each course.

- Courses: 5.00 required, 0.00 completed, 5.00 needed

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Courses Available


Optical Sciences and Engineering Support Course Work

Overall Requirement Not Satisfied: Optical Sciences and Engineering Support Course Work

A grade of "C" or better is required in each supporting course.

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, Approved Transfer Work

Mathematics
Not Satisfied: Complete 4 courses
· Courses: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available

MATH 129, MATH 129-CC, MATH 223, MATH 223-CC, MATH 254, MATH 254-CC, MATH 322

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 105A, CHEM 106A, CHEM 151, First Semester Chemistry

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

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</table>
Courses Available

MSE 110, ENGR 102

Optical Sciences & Engineering Major

Overall Requirement Not Satisfied: Optical Sciences & Engineering Major

"C" or better required in each course.

Core Courses

Not Satisfied: Complete 20 courses. A maximum of 1 course may be taken from OPTI 360 and ECE 207.

A maximum of 1 course can be taken from OPTI 400 and 406; only one will be accepted towards this requirement.

- Courses: 20.00 required, 0.00 completed, 20.00 needed

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Courses Available


Optical Sciences and Engineering Track Electives

Not Satisfied: Complete one of the following Tracks

Letter grade of C or better required for all Optics courses and Optics Pre-requisite courses

1. Optics Track

Not Satisfied: Complete 18 units

- Units: 18.00 required, 0.00 completed, 18.00 needed

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### Courses Available

**ADVR 101**

2. **Opto-Electronics Track**

   **Not Satisfied:** Complete 3 courses

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

### Courses Available

**ECE 220**

Opto-Electronics Track

**Not Satisfied:** Complete 7 units as approved by advisor

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

### Courses Available

**ADVR 101**

3. **Optical Materials Track**

   **Not Satisfied:** Complete 4 courses

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

### Courses Available

**ECE 434, MSE 345, MSE 365, MSE 434, MSE 480, OPTI 434**

Optical Materials Track Advisor Approved Courses

**Not Satisfied:** Complete 4 units as approved by advisor
· **Units:** 4.00 required, 0.00 completed, 4.00 needed

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**Courses Available**

ADVR 101

4. **Opto-Mechanics Track**

Not Satisfied: Complete 4 courses

· **Courses:** 4.00 required, 0.00 completed, 4.00 needed

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**Courses Available**

AME 250, AME 324A, AME 324B, CE 214

Opto-Mechanics Track

Not Satisfied: Compete 6 units as approved by advisor.

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

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**Courses Available**

ADVR 101

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**Optical Sciences & Engineering Graduation Requirements**

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**Overall Requirement Not Satisfied:** Optical Sciences & 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

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.