Academic Advisement Report
UGRD.UENGR.OSEBOSE
Undergraduate Career
College of Engineering Program
Optical Sciences & Engineering Major (BSOSE)
Requirement Term: Fall 2017

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

**Not Satisfied:** Complete 3 courses. Complete ENGL 106 AND ENGL 101/107 AND ENGL 102/108.

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

### Courses Available

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

### 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

### Courses Available

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

### Option 3: Honors Composition

**Not Satisfied:** Complete 1 course with a C or better.

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

### Courses Available

ENGL 109H
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, TLS 150B1, AED 150A1, ANTH 150A1, ART 150A1, GER 150A1, HUMS 150A1, HWRS 150A1, LING 150A1, MIS 150A1, PHIL 150A1, POL 150A1, PSY 150A1, AED 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, SOC 150C1, SOC 150C2, TLS 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
## 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

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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. In order to take Advanced Courses in this major, a student must achieve Advanced Standing. This requires a GPA of 2.50 in the Foundation Coursework listed below.

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. Grade of “C” or better required in each course.

- Units: 3.00 required, 0.00 completed, 3.00 needed

Math - Calculus II
Not Satisfied: Complete 3 units. Grade of “C” or better required in each course.

- Units: 3.00 required, 0.00 completed, 3.00 needed

Math - Vector Calculus
Not Satisfied: Complete 4 units. Grade of “C” or better required in each course.

- Units: 4.00 required, 0.00 completed, 4.00 needed

Courses Available
MATH 122B, MATH 125

Math - Calculus II
Not Satisfied: Complete 3 units. Grade of “C” or better required in each course.

- Units: 3.00 required, 0.00 completed, 3.00 needed

Math - Vector Calculus
Not Satisfied: Complete 4 units. Grade of “C” or better required in each course.

- Units: 4.00 required, 0.00 completed, 4.00 needed
Courses Available

MATH 223
Math - Differential Equations
Not Satisfied: Complete 3 units. Grade of "C" or better required in each course.

· Units: 3.00 required, 0.00 completed, 3.00 needed

Courses Available

MATH 254, MATH 355
Science - Gen Chemistry I
Not Satisfied: Complete 4 units. Grade of "C" or better required in each course.

· Units: 4.00 required, 0.00 completed, 4.00 needed

Courses Available

CHEM 151, Approved Transfer Course, CHEM 105A, CHEM 106A
Science - Solid State Chemistry
Not Satisfied: Complete 4 units. Grade of "C" or better required in each course.

· Units: 4.00 required, 0.00 completed, 4.00 needed

Courses Available

MSE 110
Science - Intro Mechanics Physics
Not Satisfied: Complete 4 units. Grade of "C" or better required in each course.

· Units: 4.00 required, 0.00 completed, 4.00 needed
### Courses Available

**PHYS 141, PHYS 161H**

**Science - Intro Elec & Magnetism Physics**

*Not Satisfied:* Complete 4 units. Grade of "C" or better required in each course.

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

### Courses Available

**PHYS 241, PHYS 261H**

**Engineering Courses - Optical Science**

*Not Satisfied:* Complete 12 units. Grade of "C" or better required in each course.

- **Units:** 12.00 required, 0.00 completed, 12.00 needed

### Courses Available


**Engineering Courses - Additional Courses I**

*Not Satisfied:* Complete 3 units. Grade of "C" or better required in each course.

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

### Courses Available

**ENGR 102A, ENGR 102B, ENGR 102**
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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Optical Science and Engineering Advanced Courses

Overall Requirement Not Satisfied: Optical Science and Engineering Advanced Courses. Grade of "C" or better required in each course.

1. Optical Science and Engineering Additional Math

Not Satisfied: Complete 3 units. Grade of "C" or better required in each course.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

- ENGL 109H

2. Optical Science and Engineering Advanced Core Courses

Not Satisfied: Complete 30 units. Grade of "C" or better required in each course.

- Units: 30.00 required, 0.00 completed, 30.00 needed

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Courses Available

- MATH 322

2. Optical Science and Engineering Advanced Core Courses

Not Satisfied: Complete 30 units. Grade of "C" or better required in each course.

- Units: 30.00 required, 0.00 completed, 30.00 needed

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### Courses Available

**ECE 370, ECE 430, OPTI 310, OPTI 330, OPTI 340, OPTI 370, OPTI 380, OPTI 380A, OPTI 380B, OPTI 406, OPTI 415, OPTI 421, OPTI 430, OPTI 471A, OPTI 471B**

#### 3. Additional Engineering Courses I

**Not Satisfied:** Complete 3 units. Grade of “C” or better required in each course.

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

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### Courses Available

**ECE 207**

#### 4. Additional Engineering Courses II

**Not Satisfied:** Complete 6 units. Grade of “C” or better required in each course.

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

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### Courses Available

**ENGR 498A, ENGR 498B**

#### Optical Science and Engineering Tracks

**Not Satisfied:** Optical Science and Engineering Tracks

#### 1. Opti-Electronics Track Courses I

**Not Satisfied:** Complete 5 units. Grade of “C” or better required in each course.

- **Units:** 5.00 required, 0.00 completed, 5.00 needed

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**Courses Available**

ECE 220

AND 2 Opti-Electronics Track Courses II

**Not Satisfied:** Complete 4 units. Grade of "C" or better required in each course.

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

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**Courses Available**

ECE 274A

AND 3 Opti-Electronics Track Courses III

**Not Satisfied:** Complete 4 units. Grade of "C" or better required in each course.

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

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**Courses Available**

ECE 381A

AND 4 Opti-Electronics Track Upper Division Technical Electives

**Not Satisfied:** Complete 5 units. As approved by advisor. Grade of "C" or better required in each course.

- **Units:** 5.00 required, 0.00 completed, 5.00 needed

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**Courses Available**


OR 1. Opto-Materials Track Courses

**Not Satisfied:** Complete 14 units. Grade of "C" or better required in each course.

- **Units:** 14.00 required, 0.00 completed, 14.00 needed

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 Courses Available

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

AND 2. Opto-Materials Upper Division Technical Elective Courses

Not Satisfied: Complete 4 units. As approved by advisor. Grade of "C" or better required in each course.

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

 Courses Available


OR 1. Opto-Mechanics Track Courses

Not Satisfied: Complete 12 units. Grade of "C" or better required in each course.

· **Units:** 12.00 required, 0.00 completed, 12.00 needed

 Courses Available

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

AND 2. Opto-Mechanics Track Technical Electives

Not Satisfied: Complete 6 units. As approved by advisor. Grade of "C" or better required in each course.

· **Units:** 6.00 required, 0.00 completed, 6.00 needed
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### Courses Available

**AME** 3TR, AME 300, AME 301, AME 302, AME 313, AME 320, AME 321, AME 323, AME 324A, AME 324B, AME 324C, AME 324L, AME 331, AME 352, AME 400, AME 401, AME 420, AME 422, AME 423, AME 424, AME 425, AME 426, AME 427, AME 429, AME 430, AME 431, AME 432, AME 433, AME 434, AME 442, AME 444, AME 445, AME 446, AME 451, AME 452, AME 454, AME 455, AME 457, AME 460, AME 462, AME 463, AME 466, AME 472, AME 480, AME 483, AME 487, AME 488, AME 489A, AME 489B

**OR 1. Optics Track Courses I**

Not Satisfied: Complete 18 units, including a minimum of 12 units of upper division coursework. Six units must be engineering. Courses to be chosen with advisor approval. Additional classes may be allowed to count by advisor with pre-approval. Grade of "C" or better required in each course.

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

### Courses Available


**AND 2. Optics Track Courses II**

Not Satisfied: Complete 18 units, including a minimum of 12 units of upper division coursework. Six units must be engineering. Courses to be chosen with advisor approval. Additional classes may be allowed to count by advisor with pre-approval. Grade of "C" or better required in each course.

- **Units:** 12.00 required, 0.00 completed, 12.00 needed

### Courses Available


**Optics Track Upper Division Courses**

Not Satisfied: Minimum of 12 units of Upper Division course work required. Grade of "C" or better required in each course.

- **Units:** 12.00 required, 0.00 completed, 12.00 needed
### Optical Sciences & Engineering Graduation Requirements

**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

#### 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.