Academic Advisement Report
UGRD.UENGR.OSEBOSE
Undergraduate Career
College of Engineering Program
Optical Sciences & Engineering Major (BSOSE)
Requirement Term: Fall 2015

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

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

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<th>Course Title</th>
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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 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: 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
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 230, AFAS 245, AFAS 245-CC, AFAS 249, AFAS 255, AFAS 310, AFAS 314, AFAS 320, AFAS 342, AFAS 365, AFAS 373, AFAS 374, AFAS 375, AFAS 381, ART 222, ART 300, ARH 300, ARH 329, ART 329, CHN 248, CLAS 220-SA, CLAS 221, CLAS 221-SA, CLAS 260, CLAS 300, CLAS 300-SA, CLAS 329, CLAS 335, CLAS 335-SA, CLAS 342, CLAS 346, ENGL 220A, 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, ENG 360, FREN 245, FREN 245-CC, FREN 249, FREN 280, FREN 280-SA,

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.

- **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-requiring 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.

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Courses Available
MATH 122B, MATH 124, MATH 125, MATH 125-CC
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 129-CC, MATH 250A

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, MATH 223-CC

Math - Differential Equations

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

MATH 250B, MATH 254, MATH 254-CC

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 103A, CHEM 103A-CC, CHEM 104A, CHEM 105A, CHEM 106A
Science - Solid State Chemistry

Not Satisfied: Complete 4 units.

- Units: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available

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

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 - Optical Science

Not Satisfied: Complete 12 units.

- Units: 12.00 required, 0.00 completed, 12.00 needed

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Courses Available


Engineering Courses - Additional Courses I

Not Satisfied: Complete 3 units.

- 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

Courses Available

ENGL 102, ENGL 104H, ENGL 108, ENGL 101, ENGL 101A, ENGL 103H, ENGL 107, ENGL 107A

OR English Composition

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

Courses Available

ENGL 109H

Optical Science and Engineering Advanced Courses

Overall Requirement Not Satisfied: Optical Science and Engineering Advanced Courses

1. Optical Science and Engineering Additional Math

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed
### Courses Available

**MATH 322**

2. Optical Science and Engineering Advanced Core Courses  
   **Not Satisfied:** Complete 30 units.
   - **Units:** 30.00 required, 0.00 completed, 30.00 needed

### Courses Available

**ECE 370, ECE 430, OPTI 310, OPTI 330, OPTI 340, OPTI 370, 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.
   - **Units:** 3.00 required, 0.00 completed, 3.00 needed

### Courses Available

**ECE 207**

5. Additional Engineering Courses II  
   **Not Satisfied:** Complete 6 units.
   - **Units:** 6.00 required, 0.00 completed, 6.00 needed
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.

- 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.

- 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.

- 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.

- 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.

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

### 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.

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

### Courses Available


**OR 1. Opto-Mechanics Track Courses**

**Not Satisfied:** Complete 12 units.

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

- **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 422A, AME 423, AME 424, AME 425, AME 426, AME 427, AME 428, 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 473, AME 474, 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.

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

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**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.

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

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Courses Available


Optics Track Upper Division Courses

Not Satisfied: Minimum of 12 units of Upper Division course work required.

- 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.