Academic Advisement Report
UGRD.UENGR.OSEBSE
Undergraduate Career
College of Engineering Program
Optical Sciences & Engineering Major (BSOSE)
Requirement Term: Fall 2014

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 coursework 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 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**

**(R2778)**

**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 324, AFAS 365, AFAS 373, AFAS 374, AFAS 375, AIS 381, AIS 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 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, 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: 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

### 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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Page 7 of 17
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, MATH 122B

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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### Chemistry

Not Satisfied: Complete 4 units

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

### Engineering

Not Satisfied: Complete 7 units.

Note: take either ENGR102 or ENGR102A & ENGR102B

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

### 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
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, Approved Transfer Course
Introductory Courses

Not Satisfied: Complete 7 units
Note: take either ENGR102 or ENGR102A & ENGR102B

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

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Courses Available

MSE 110, ENGR 102, ENGR 102A, ENGR 102B

Optical Sciences & Engineering Major

Overall Requirement Not Satisfied: Optical Sciences & Engineering Major
"C" or better required in each course.

Core Courses

Not Satisfied: Complete 21 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:** 21.00 required, 0.00 completed, 21.00 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

OR 1. Opto-Electronics Track

Not Satisfied: Complete 3 courses. Note: 3 units of additional OPTI technical electives, as approved by advisor, to be taken in place of ECE 207/OPTI 360.

- Courses: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

ECE 220, ECE 274A, ECE 381A

AND 1. Opto-Electronics Track

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 2. Optical Materials Track

Not Satisfied: Complete 4 courses

- Courses: 4.00 required, 0.00 completed, 4.00 needed

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### Courses Available

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

AND 2. 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

### Courses Available


OR 3. Opto-Mechanics Track

**Not Satisfied:** Complete 4 courses

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

### Courses Available

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

AND 3. Opto-Mechanics Track

**Not Satisfied:** Complete 6 units as approved by advisor.

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

<table>
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<tr>
<th>Subject</th>
<th>Catalog Nbr</th>
<th>Course Title</th>
<th>Grade</th>
<th>Units</th>
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</thead>
</table>

- **4. Optics Track**

**Not Satisfied:** Complete 12 units of upper division (300/400) coursework. Courses to be chosen with advisor approval.

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

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**Courses Available**

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- **4. Optics Track**

**Not Satisfied:** Complete 12 units of upper division (300/400) coursework. Courses to be chosen with advisor approval.

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

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<th>RqDes</th>
<th>Type</th>
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**AND 4. Optics Track**

_Not Satisfied:_ Complete 6 units.

- Units: 6.00 required, 0.00 completed, 6.00 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
<table>
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</thead>
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**Minor Optional** *(R1234)*

**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.