

Academic Advisement Report  
UGRD.UENGR.OSEBSOSE  
Undergraduate Career  
College of Engineering Program  
Optical Sciences & Engineering Major (BSOSE)  
Requirement Term: Fall 2013

### Undergraduate Graduation Requirements

(RG511)

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

(R2903/L30)

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

(R538/L40)

**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

(R538/L60)

**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

(R538/L70)

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

(R2075/L10)

**Satisfied:** A maximum of 60 units of Correspondence Credit and/or Exam Credit may apply toward graduation.

Non Degree Seeking Limit

(R838/L10)

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

(R1227/L30)

**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

(R3297/L15)

**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

(R3297/L25)

**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**

(RG1434)

**Not Satisfied:** Foundation Mathematics

GE Substantial Math Strand

(R2439)

**Not Satisfied:** GE Substantial Math Strand

GE Substantial Math Strand

(R2439/L10)

**Not Satisfied:** Complete 1 course.

· **Units:** 2.67 required, 0.00 completed, 2.67 needed

· **Courses:** 0.00 completed

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

MATH 122B, MATH 124, MATH 125, MATH 125-CC

**Undergraduate General Education and Foundation Requirements**

(RG507)

**Overall Requirement Not Satisfied:** Undergraduate General Education and Foundation Requirements

Foundation Composition

(R532)

**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

(R532/L10)

**Not Satisfied:** Complete 1 course

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

ENGL 101, ENGL 101A, ENGL 103H, ENGL 107, ENGL 107A

AND Option 1: Second Semester Composition

(R532/L20)

**Not Satisfied:** AND Complete 1 course

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

ENGL 102, ENGL 104H, ENGL 108

OR Option 2: Honors Composition

(R532/L30)

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

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type
	ENGL	109H						

**Courses Available**

ENGL 109H

**GE Foundation Second Language not required**

(R3219)

**Satisfied:** There is no second language required for your major.

**General Education Tier I**

(R522)

**Overall Requirement Not Satisfied:** Complete 2 courses in each of the following areas.

**Tier I Individuals & Societies**

(R522/L10)

**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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

(\*\*\*) (###), ANTH 150B1, ANTH 150B1-SA, ART 150B1, ART 150B1-SA, ART 150B2, EDP 150B1, EDP 150B1-SA, ENGL 150B1, ENGL 150B1-SA, FSHD 150B1, GEOG 150B1, GEOG 150B1-SA, GER 150B1, GER 150B1-SA, GWS 150B1, GWS 150B1-SA, GWS 150B2, GWS 150B2-SA, GWS 150B3, GWS 150B3-SA, GWS 150B4, GWS 150B4-SA, HNRS 150B1, HNRS 150B1-SA, HNRS 150B2, IRLS 150B1, LAR 150B1, LAR 150B1-SA, LAS 150B1, LAS 150B1-SA, MAS 150B1, MAS 150B2, MIS 150B1, MIS 150B1-SA, PA 150B1, PA 150B1-SA, PE 150B1, PE 150B1-SA, PHIL 150B1, PHIL 150B1-SA, POL 150B1, POL 150B1-SA, RCSC 150B1, RCSC 150B1-SA, RCSC 150B2, RCSC 150B2-SA, RSSS 150B1, RSSS 150B1-SA, SOC 150B1, SOC 150B1-SA, SOC 150B2, SOC 150B2-SA, AED 150A1, AED 150A1-SA, ANTH 150A1, ANTH 150A1-SA, ART 150A1, ART 150A1-SA, HWRS 150A1, LING 150A1, LING 150A1-SA, MIS 150A1, MIS 150A1-SA, PHIL 150A1, PHIL 150A1-SA, POL 150A1, POL 150A1-SA, PSY 150A1, PSY 150A1-SA, AED 150C1, AREC 150C1, AREC 150C1-SA, AREC 150C2, AREC 150C2-SA, ECON 150C1, ECON 150C1-SA, GEOG 150C1, GEOG 150C1-SA, HIST 150C1, HIST 150C1-SA, HIST 150C2, HIST 150C2-SA, HIST 150C3, HIST 150C3-SA, HIST 150C4, HIST 150C4-CC, HIST 150C4-SA, HIST 150C5, HIST 150C5-CC, HIST 150C5-SA, HIST 150C6, HIST 150C6-SA, JOUR 150C1, JOUR 150C1-SA, MAS 150C1, MAS 150C1-SA, MENA 150C1, MENA 150C1-SA, PHIL 150C1, PHIL 150C1-SA, PLP 150C1, PLP 150C1-SA, POL 150C1, POL 150C1-SA, POL 150C2, POL 150C2-SA, POL 150C3, SOC 150C1, SOC 150C1-SA, SOC 150C2, SOC 150C2-SA

**Tier I Traditions & Cultures**

(R522/L30)

**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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

(\*\*\*) (###), AFAS 160A1, AFAS 160A1-SA, AFAS 160A2, AFAS 160A2-SA, AIS 160A1, AIS 160A1-SA, ANTH 160A1, ANTH 160A1-SA, EAS 160A1, EAS 160A1-SA, EAS 160A2, EAS 160A2-SA, EAS 160A3, EAS 160A3-SA, EAS 160A4, EAS 160A4-SA, EAS 160A5, EAS 160A5-SA, ENGL 160A1, ENGL 160A1-SA, FREN 160A1, FREN 160A1-SA, HIST 160A1, HIST 160A1-CC, HIST 160A1-SA, MAS 160A1, MAS 160A1-SA, MENA 160A1, MENA 160A1-SA, MENA 160A2, MENA 160A2-SA, MENA 160A3, MENA 160A3-SA, POL 160A1, POL 160A1-SA, CLAS 160B1, CLAS 160B1-SA, DNC 160B1, DNC 160B1-SA, ENGL 160B1, ENGL 160B1-SA, HIST 160B1, HIST 160B1-SA, HIST 160B2, HIST 160B2-SA, ITAL 160B1, ITAL 160B1-SA, POL 160B1, POL 160B1-SA, ARC 160C1, ARC 160C1-SA, DNC 160C1, DNC 160C1-SA, ENGL 160C1, ENGL 160C1-SA, GER 160C1, GER 160C1-SA, GWS 160C1, GWS 160C1-SA, HIST 160C1, HIST 160C1-SA, POL 160C1, POL 160C1-SA, RSSS 160C1, RSSS 160C1-SA, SPAN 160C1, SPAN 160C1-SA, AFAS 160D1, AFAS 160D1-SA, ANTH 160D1, ANTH 160D1-SA, ANTH 160D2, ANTH 160D2-SA, ANTH 160D3, ANTH 160D3-SA, ARC 160D1, ARC 160D1-SA, ART 160D1, ART 160D1-SA, ART 160D2, ART 160D2-SA, ART 160D3, ART 160D3-SA, CLAS 160D1, CLAS 160D1-SA, CLAS 160D2, CLAS 160D2-SA, CLAS 160D3, CLAS 160D3-SA, ENGL 160D1, ENGL 160D1-SA, ENTO 160D1, ENTO 160D1-SA, GER 160D1, GER 160D1-SA, HNRS 160D1, HNRS 160D1-SA, HNRS 160D2, JUN 160D1, JUN 160D1-SA, MUS 160D1, PHIL 160D1, PHIL 160D1-SA, PHIL 160D2, PHIL 160D2-SA, PHIL 160D3, PHIL 160D3-SA, POL 160D1, POL 160D1-SA, RELI 160D1, RELI 160D1-SA, RELI 160D2, RELI 160D2-SA, RELI 160D3, RELI 160D3-SA, RNR 160D1, RNR 160D1-SA, RSSS 160D1, SPAN 160D1, SPAN 160D1-SA, TAR 160D1, VSC 160D1, VSC 160D1-SA

**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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

AFAS 371, ARC 325, ARE 130, ARH 201, ARH 202, ARH 202-SA, ARH 203, ARH 312, ARH 314, ARH 314-SA, ARH 315, ARH 315-SA, ARH 316A, ARH 316A-SA, ARH 316B, ARH 319, ARH 320, ARH 321, ARH 322, ARH 324, ARH 325, ARH 329, ART 203, ART 242, ART 329, ART 358, CLAS 329, DNC 100, DNC 112A, DNC 112B, DNC 112C, DNC 143, DNC 144A, DNC 144B, DNC 144C, DNC 152A, DNC 152B, DNC 152C, DNC 175, DNC 176A, DNC 176B, DNC 177C, DNC 177D, DNC 200, DNC 276A, ENGL 201, ENGL 201-SA, ENGL 209, ENGL 210, ENGL 300, ENGL 300-SA, FTV 252, FTV 375, HNRS 203H, HNRS 218, HNRS 295B, ISTA 301, JPN 245, LAS 322, LAS 337, MAS 337, MUS 100, MUS 100-CC, MUS 101A, MUS 107, MUS 107-CC, MUS 108, MUS 108-CC, MUS 109, MUS 206, MUS 231, MUS 328, MUS 334, MUS 334-CC, MUS 337, MUS 344, MUS 360, TAR 100, TAR 103, (\*\*\*) (###)

**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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

AFAS 200, AFAS 222, AFAS 224, AFAS 230, 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, ENGL 220B, ENGL 230, ENGL 231, ENGL 245, ENGL 245-CC, ENGL 260, ENGL 260-SA, ENGL 265, ENGL 265-CC, ENGL 267, ENGL 267-SA, ENGL 280, ENGL 342, ENGL 375, ENGR 317, FREN 245, FREN 245-CC, FREN 249, FREN 280, FREN 282, FREN 282-CC, FREN 283, FREN 283-CC, FREN 284, FREN 284-CC, FREN 373, FREN 375, FTV 325, GER 273, GER 275, GER 276, GER 278, GER 325, GER 373, GER 375, GER 376, GER 379, GWS 200, GWS 317, GWS 330, GWS 342, GWS 373, HIST 224, HIST 247, HIST 277A, HIST 277B, HIST 278, HIST 372A, HIST 372B, HNRS 200, HNRS 208-SA, HNRS 208H, HNRS 209, HNRS 212, ITAL 230, ITAL 230-SA, ITAL 240, ITAL 250A, ITAL 250B, ITAL 250C, ITAL 250D, ITAL 330B, JPN 220, JPN 311, JUS 301, JUS 325, JUS 372A, JUS 372B, JUS 376, LAT 201, LAT 201-SA, LAT 202, LAT 202-SA, MENA 277A, MENA 277B, MENA 372A, MENA 372B, PHIL 210, PHIL 213, PHIL 220, PHIL 222, PHIL 260, PHIL 261, PHIL 262, PHIL 325, PHIL 325-SA, PHIL 330, RELI 210, RELI 220, RELI 220A, RELI 220B, RELI 250, RELI 255, RELI 277A, RELI 300, RELI 304, RELI 372A, RELI 372B, RELI 379, RELI 381, RELI 385, RSSS 210, RSSS 304, RSSS 340, RSSS 345, RSSS 350, SPAN 210, SPAN 210-SA, (\*\*\*) (###)

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

AED 210, AED 309, AED 408, AFAS 220, AFAS 220-CC, AFAS 223, AFAS 260, AFAS 340, AFAS 444, AGTM 380, AIS 210, AIS 346, AIS 347, ANTH 202, ANTH 203, ANTH 307, ANTH 314, ANTH 316, ANTH 320, ANTH 330, ANTH 346, ANTH 346-CC, ANTH 347, ANTH 347-CC, ANTH 380, ANTV 307, AREC 350, CLAS 240, CLAS 305, CLAS 305-SA, CLAS 306, CLAS 306-SA, CLAS 362, CPH 387, CPH 444, ECON 200, ECON 200-CC, ECON 201A, ECON 201A-CC, ECON 205, EDL 200, EDP 200, FCSC 302, FSHD 200, FSHD 347, GEOG 205, GEOG 210, GEOG 210-CC, GEOG 250, GEOG 251, GEOG 251-CC, GEOG 256, GEOG 270, GEOG 367, GEOG 380, GER 274, GER 274-SA, GWS 240, GWS 328, GWS 362, HED 350, HIST 246, HIST 370A, HIST 370B, HNRS 204H, HNRS 205H, HNRS 206H, HNRS 207H, HNRS 217, ISTA 263, ITAL 330D, JOUR 305, JUS 370A, JUS 370A-CC, JUS 370B, JUS 370B-CC, LAR 350, LAS 204, LAS 251, LING 210, LING 211, LING 330, LRC 204, LRC 239, MAS 265, MAS 365, MENA 251, MENA 330, MENA 334, NESV 334, NURS 310, PA 205, PA 250, PA 323, PE 240, PHIL 205, PHIL 211, PHIL 223, PHIL 233, PHIL 241, PHIL 246, PHIL 250, PHIL 264, PHIL 323, PHIL 345, PHIL 346, PHIL 347, PHIL 348, PLG 202, PLG 211, PLG 256, POL 201, POL 201-CC, POL 201-SA, POL 202, POL 202-CC, POL 202-SA, POL 203, POL 204, POL 204-CC, POL 250, PSY 200, PSY 240, PSY 240-CC, PSY 241, PSY 277, PSY 345, PSY 346, PSY 347, PSY 348, PSY 461A, RCSC 204, RELI 233, RELI 305, RELI 306, RELI 334, RELI 370A, RELI 370B, RELV 334, RNR 256, RSSS 275, RSSS 315, RSSS 328, SERP 200, SLHS 255, SLHS 310, SOC 220, SOC 260, SOC 260-CC, SOC 260-SA, SOC 280, SOC 357, SOC 367, TTE 200, (\*\*\*) (###)

Diversity Emphasis Course

(R531)

**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

(R531/L10)

**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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

Courses Available

AED 408, AFAS 160A1, AFAS 160A1-SA, AFAS 160A2, AFAS 160A2-SA, AFAS 220, AFAS 220-CC, AFAS 222, AFAS

223, AFAS 230, AFAS 245, AFAS 245-CC, AFAS 249, AFAS 255, AFAS 260, AFAS 302, AFAS 304A, AFAS 304A-SA, AFAS 304B, AFAS 306, AFAS 310, AFAS 311D, AFAS 314, AFAS 315, AFAS 330, AFAS 330-CC, AFAS 340, AFAS 342, AFAS 365, AFAS 371, AFAS 373, AFAS 381, AFAS 444, AFAS 467, AFAS 468, AIS 160A1, AIS 160A1-SA, AIS 210, AIS 346, AIS 347, AIS 467, ANTH 150A1, ANTH 150A1-SA, ANTH 160A1, ANTH 160A1-SA, ANTH 202, ANTH 203, ANTH 222, ANTH 307, ANTH 314, ANTH 316, ANTH 320, ANTH 330, ANTH 346, ANTH 346-CC, ANTH 347, ANTH 347-CC, ANTH 375, ANTH 402, ANTH 450, ANTH 467, ANTV 307, ANTV 375, ARH 203, CHN 245, CHN 251, CHN 275, CHN 276, CHN 276-CC, CHN 331, CHN 340, CHN 341, CHN 419, CHN 420, CHN 429, CHN 468, CHN 475D, CHN 475E, CHN 482, CHN 483, CHN 483-SA, CLAS 362, CPH 387, CPH 444, DNC 177C, DNC 177D, EAS 130, EAS 130-CC, EAS 160A1, EAS 160A1-SA, EAS 160A2, EAS 160A2-SA, EAS 160A3, EAS 160A3-SA, EAS 160A4, EAS 160A4-SA, EAS 160A5, EAS 160A5-SA, EAS 333, EAS 350, EAS 484A, EAS 484B, EAS 489, EAS 496C, ENGL 160A1, ENGL 160A1-SA, ENGL 230, ENGL 245, ENGL 245-CC, ENGL 342, ENGL 429, FREN 160A1, FREN 160A1-SA, FREN 245, FREN 245-CC, FREN 249, FREN 373, FTV 251, GEOG 205, GEOG 210, GEOG 210-CC, GEOG 251, GEOG 251-CC, GEOG 311D, GEOG 311E, GER 274, GER 274-SA, GER 278, GER 373, GER 376, GWS 200, GWS 240, GWS 253, GWS 254, GWS 254-CC, GWS 306, GWS 324, GWS 328, GWS 330, GWS 335, GWS 335-CC, GWS 342, GWS 362, GWS 373, GWS 402, GWS 427, GWS 448, GWS 459, GWS 468, GWS 489, HIST 160A1, HIST 160A1-CC, HIST 160A1-SA, HIST 253, HIST 253-CC, HIST 254, HIST 254-CC, HIST 272, HIST 275, HIST 276, HIST 277A, HIST 278, HIST 306, HIST 370A, HIST 370B, HIST 372A, HIST 372B, HIST 372C, HIST 475D, HIST 475E, HIST 482, HIST 489, HNRS 204H, ITAL 330B, ITAL 330D, JPN 220, JPN 245, JPN 272, JPN 304, JPN 310, JPN 311, JPN 396H, JPN 402, JPN 411, JPN 412, JPN 446A, JPN 446B, JPN 447A, JPN 447B, JPN 485, JPN 486, JPN 489, JPN 495B, JPN 495B-SA, JPN 496A, JPN 496A-SA, JPN 496C, JPN 496C-SA, JUS 325, JUS 370A, JUS 370A-CC, JUS 370B, JUS 370B-CC, JUS 372A, JUS 372B, JUS 376, LAS 251, LAS 310, LAS 337, LAS 362, LING 210, LING 304, LING 330, LING 402, LING 411, LING 412, LING 419, LING 420, LING 496C, MAS 160A1, MAS 160A1-SA, MAS 265, MAS 330, MAS 330-CC, MAS 332, MAS 332-CC, MAS 337, MAS 365, MAS 467, MENA 160A1, MENA 160A1-SA, MENA 160A2, MENA 160A2-SA, MENA 160A3, MENA 160A3-SA, MENA 251, MENA 277A, MENA 311E, MENA 330, MENA 334, MENA 372A, MENA 372B, MENA 375, MENA 375-SA, MIS 150B1, MIS 150B1-SA, MUS 109, MUS 334, MUS 334-CC, MUS 337, MUS 344, NES 441, NESV 334, NESV 375, PHIL 222, PHIL 223, PHIL 325, PHIL 325-SA, PHIL 330, POL 160A1, POL 160A1-SA, POL 330, POL 330-CC, POL 332, POL 332-CC, POL 335, POL 335-CC, POL 441, POL 464, POL 464-SA, POL 468, POL 476, RELI 130, RELI 210, RELI 220, RELI 277A, RELI 324, RELI 331, RELI 333, RELI 334, RELI 350, RELI 370A, RELI 370B, RELI 372A, RELI 372B, RELI 381, RELI 483, RELI 484A, RELI 484B, RELI 485, RELI 486, RELI 489, RELV 334, RSSS 315, RSSS 328, RSSS 350, SOC 220, SOC 222, SOC 260, SOC 260-CC, SOC 260-SA, SOC 280, SOC 324, SOC 324-CC, SOC 325, SOC 357, SOC 362, SOC 362-CC, SOC 427, SOC 432, SOC 448, SOC 448-CC, SOC 450, SOC 450-CC, SOC 459, SOC 459-CC, SOC 459-SA, SOC 467, SPAN 210, SPAN 210-SA

### 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.

### BSOSE in Optical Sciences & Engineering

(RG1723)

**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

(R2961)

**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

(R2961/L20)

**Not Satisfied:** Complete 2 courses

· **Courses:** 2.00 required, 0.00 completed, 2.00 needed

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

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

OR Option 2: English Composition

(R2961/L30)

**Not Satisfied:** Complete 1 course

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type
	ENGL	109H						

**Courses Available**

ENGL 109H

Physics

(R2961/L40)

**Not Satisfied:** Complete 3 courses

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

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type
	PHYS	141						
	PHYS	241						
	OPTI	240						

**Courses Available**

PHYS 141, PHYS 241, OPTI 240

Mathematics

(R2961/L45)

**Not Satisfied:** Complete 1 course

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

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

MATH 124, MATH 125, MATH 125-CC, MATH 122B

Mathematics

(R2961/L50)

**Not Satisfied:** Complete 3 courses

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

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type



Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

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

Chemistry

(R2961/L60)

**Not Satisfied:** Complete 4 units

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

CHEM 103A, CHEM 103A-CC, CHEM 104A, CHEM 151, .., CHEM 105A, CHEM 106A

Engineering

(R2961/L70)

**Not Satisfied:** Complete 3 courses

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type
	MSE	110						
	ENGR	102						
	OPTI	280						

**Courses Available**

MSE 110, ENGR 102, OPTI 280

Core Courses

(R2961/L80)

**Not Satisfied:** Complete 5 courses.

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

· **Courses:** 5.00 required, 0.00 completed, 5.00 needed

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

ECE 201R, ECE 202R, OPTI 201L, OPTI 201R, OPTI 202L, OPTI 202R, OPTI 280

**Optical Sciences and Engineering Support Course Work** (R3040)

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

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

Physics (R3040/L10)

**Not Satisfied:** Complete 2 courses

· **Courses:** 2.00 required, 0.00 completed, 2.00 needed

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

PHYS 141, PHYS 241, Approved Transfer Work

Mathematics (R3040/L20)

**Not Satisfied:** Complete 4 courses

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

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

Chemistry (R3040/L30)

**Not Satisfied:** Complete 4 units

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

CHEM 103A, CHEM 103A-CC, CHEM 104A, CHEM 105A, CHEM 106A, CHEM 151, .

Introductory Courses (R3040/L40)

**Not Satisfied:** Complete 2 courses

· **Courses:** 2.00 required, 0.00 completed, 2.00 needed



Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

### Courses Available

ABE 3TR, ABE 393, ABE 397A, ABE 399, ABE 399H, ABE 399H-SA, ABE 422, ABE 423, ABE 426, ABE 427, ABE 428, ABE 447, ABE 452, ABE 452-SA, ABE 455, ABE 456, ABE 458, ABE 459, ABE 467, ABE 475A, ABE 479, ABE 481A, ABE 481B, ABE 483, ABE 484, ABE 486, ABE 488, ABE 489A, ABE 489B, ABE 493, ABE 496A, ABE 497C, ABE 498A, ABE 498B, ABE 498H, ABE 499, ABE 499H, ABE 499, ABE 499H, ABE 3TR, ABE 300, ABE 301, ABE 302, ABE 320, ABE 321, ABE 323, ABE 324A, ABE 324B, ABE 324L, ABE 331, ABE 352, ABE 392, ABE 399, ABE 399-SA, ABE 399H, ABE 400, ABE 401, ABE 413A, ABE 413B, ABE 420A, ABE 422A, ABE 424, ABE 425, ABE 426, ABE 427, ABE 428A, ABE 430, ABE 431, ABE 432, ABE 433, ABE 442, ABE 444, ABE 445, ABE 446, ABE 451, ABE 452, ABE 455, ABE 457, ABE 460, ABE 462, ABE 463, ABE 466, ABE 472, ABE 473, ABE 474, ABE 480, ABE 483, ABE 487, ABE 488, ABE 489A, ABE 489B, ABE 492, ABE 493, ABE 493-SA, ABE 495S, ABE 498H, ABE 499, ABE 499-SA, ABE 499H, BME 3TR, BME 330, BME 416, BME 417, BME 466, BME 480, BME 481B, BME 483, BME 484, BME 486, BME 492, BME 493B, BME 495C, BME 497G, BME 499, CE 3TR, CE 301, CE 303, CE 310, CE 323, CE 329, CE 333, CE 334, CE 335, CE 343, CE 349, CE 363, CE 370L, CE 370R, CE 381, CE 389, CE 393, CE 393-SA, CE 394, CE 399, CE 399-SA, CE 399H, CE 399H-SA, CE 402, CE 408A, CE 408B, CE 410, CE 411, CE 422, CE 423, CE 426, CE 427, CE 429, CE 432, CE 433, CE 434, CE 435, CE 437, CE 438, CE 440, CE 441, CE 442, CE 444, CE 445, CE 446, CE 448, CE 449, CE 455, CE 456, CE 458, CE 460, CE 462A, CE 463, CE 464A, CE 466, CE 468, CE 469, CE 473, CE 476A, CE 476B, CE 478, CE 484, CE 493, CE 494, CE 498, CE 498H, CE 499, CE 499H, CHEE 3TR, CHEE 301A, CHEE 301B, CHEE 303, CHEE 305, CHEE 326, CHEE 370L, CHEE 370R, CHEE 370R-CC, CHEE 399, CHEE 399-SA, CHEE 399H, CHEE 400L, CHEE 400R, CHEE 401A, CHEE 402, CHEE 412, CHEE 413, CHEE 415, CHEE 420, CHEE 435, CHEE 436, CHEE 437, CHEE 442, CHEE 443, CHEE 471, CHEE 473, CHEE 476A, CHEE 476B, CHEE 477L, CHEE 477R, CHEE 478, CHEE 481A, CHEE 481B, CHEE 482, CHEE 488, CHEE 494A, CHEE 498, CHEE 498H, CHEE 499, CHEE 499H, ECE 3TR, ECE 304A, ECE 310, ECE 320A, ECE 330A, ECE 340A, ECE 351C, ECE 352, ECE 360, ECE 369A, ECE 370, ECE 372A, ECE 373, ECE 381A, ECE 392, ECE 399, ECE 399H, ECE 401, ECE 403A, ECE 404, ECE 407, ECE 408, ECE 411, ECE 414A, ECE 415, ECE 417, ECE 421, ECE 422, ECE 425, ECE 429, ECE 430, ECE 434, ECE 435, ECE 435A, ECE 441A, ECE 442, ECE 446, ECE 447A, ECE 449, ECE 450, ECE 451A, ECE 453, ECE 456, ECE 458, ECE 459, ECE 462, ECE 465, ECE 466, ECE 467, ECE 473, ECE 474A, ECE 478, ECE 479, ECE 481, ECE 482A, ECE 484, ECE 484, ECE 485D, ECE 486, ECE 487, ECE 488, ECE 492, ECE 493, ECE 493A, ECE 494A, ECE 498A, ECE 498B, ECE 498H, ECE 499, ECE 499H, ENGR 3TR, ENGR 317, ENGR 367, ENGR 412A, ENGR 414, ENGR 420L, ENGR 420R, ENGR 422, ENGR 435, ENGR 436, ENGR 452, ENGR 479, ENGR 481A, ENGR 488, ENGR 498A, ENGR 498B, ENGR 498C, ENGR 498D, MATH 3TR, MATH 302A, MATH 302B, MATH 315, MATH 322, MATH 323, MATH 330, MATH 355, MATH 361, MATH 362, MATH 363, MATH 368, MATH 368-CC, MATH 393, MATH 396C, MATH 399, MATH 399H, MATH 401A, MATH 401B, MATH 402, MATH 404, MATH 406A, MATH 406B, MATH 407, MATH 410, MATH 413, MATH 415A, MATH 415B, MATH 422, MATH 424, MATH 425A, MATH 425B, MATH 432, MATH 443, MATH 445, MATH 446, MATH 447, MATH 454, MATH 454-CC, MATH 456, MATH 461, MATH 464, MATH 466, MATH 468, MATH 475A, MATH 475B, MATH 479, MATH 485, MATH 488, MATH 493, MATH 494C, MATH 498, MATH 498H, MATH 499, MATH 499H, MNE 3TR, MNE 391, MNE 391H, MNE 392, MNE 396A, MNE 397A, MNE 399, MNE 399H, MNE 402, MNE 406B, MNE 407, MNE 409, MNE 411, MNE 412, MNE 415, MNE 419, MNE 421, MNE 422, MNE 426, MNE 427, MNE 430, MNE 434, MNE 436, MNE 438, MNE 439, MNE 441, MNE 447, MNE 450, MNE 465, MNE 467, MNE 476, MNE 484, MNE 490, MNE 492, MNE 493, MNE 494, MNE 494A, MNE 498, MNE 498H, MNE 499, MNE 499H, MSE 3TR, MSE 300, MSE 301, MSE 302, MSE 303, MSE 304, MSE 320, MSE 331L, MSE 331R, MSE 345, MSE 350, MSE 360L, MSE 365, MSE 397B, MSE 399, MSE 399H, MSE 404, MSE 405A, MSE 411, MSE 412, MSE 414, MSE 415, MSE 420, MSE 424, MSE 425, MSE 434, MSE 435, MSE 437, MSE 443, MSE 446, MSE 447L, MSE 450, MSE 455, MSE 460, MSE 461, MSE 462, MSE 464, MSE 465, MSE 468, MSE 470, MSE 471, MSE 471L, MSE 473, MSE 479, MSE 480, MSE 488, MSE 489, MSE 491, MSE 493, MSE 496A, MSE 498, MSE 498H, MSE 499, MSE 499H, OPTI 3TR, OPTI 300, OPTI 310, OPTI 330, OPTI 340, OPTI 340A, OPTI 360, OPTI 370, OPTI 380A, OPTI 380B, OPTI 392, OPTI 396H, OPTI 399, OPTI 399H, OPTI 403A, OPTI 404, OPTI 406, OPTI 414, OPTI 414A, OPTI 415, OPTI 415L, OPTI 416, OPTI 421, OPTI 421L, OPTI 422, OPTI 423, OPTI 423L, OPTI 424A, OPTI 425, OPTI 429, OPTI 430, OPTI 434, OPTI 435, OPTI 439A, OPTI 441, OPTI 447, OPTI 468, OPTI 471A, OPTI 471B, OPTI 475, OPTI 481A, OPTI 485, OPTI 487, OPTI 489, OPTI 489A, OPTI 490, OPTI 492, OPTI 493, OPTI 498H, OPTI 499, OPTI 499-SA, OPTI 499H, PHYS 3TR, PHYS 305, PHYS 320, PHYS 321, PHYS 331, PHYS 332, PHYS 371, PHYS 381, PHYS 382, PHYS 391, PHYS 392, PHYS 396H, PHYS 399, PHYS 399H, PHYS 405, PHYS 422, PHYS 426, PHYS 427, PHYS 430, PHYS 431, PHYS 433, PHYS 439, PHYS 440, PHYS 444, PHYS 445E, PHYS 450, PHYS 460, PHYS 468, PHYS 469, PHYS 472, PHYS 473, PHYS 474, PHYS 476, PHYS 478, PHYS 480, PHYS 481, PHYS 483, PHYS 484, PHYS 492, PHYS 492-SA, PHYS 494, PHYS 496A, PHYS 498, PHYS 498H, PHYS 499, PHYS 499H, SIE 3TR, SIE 305, SIE 305-CC, SIE 305-SA, SIE 321, SIE 330L, SIE 330R, SIE 340, SIE 350, SIE 367, SIE 370, SIE 375, SIE 377, SIE 383, SIE 396A, SIE 399, SIE 399H, SIE 406, SIE 408, SIE 410A, SIE 414, SIE 415, SIE 422, SIE 430, SIE 431, SIE 440, SIE 443, SIE 452, SIE 453, SIE 454A, SIE 456, SIE 457, SIE 462, SIE 463, SIE 464, SIE 482, SIE 483, SIE 484, SIE 485, SIE 487, SIE 492, SIE 498A, SIE 498B, SIE 498H, SIE 499, SIE 499H

**AND 1. Optics Track**

(R2963/L20)

**Not Satisfied:** Complete 6 units.

Units: 6.00 required, 0.00 completed, 6.00 needed

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

ABE 3TR, ABE 201, ABE 205, ABE 221, ABE 284, ABE 299, ABE 299H, ABE 393, ABE 397A, ABE 399, ABE 399H, ABE 399H-SA, ABE 422, ABE 423, ABE 426, ABE 427, ABE 428, ABE 447, ABE 452, ABE 452-SA, ABE 455, ABE 456, ABE 458, ABE 459, ABE 467, ABE 475A, ABE 479, ABE 481A, ABE 481B, ABE 483, ABE 484, ABE 486, ABE 488, ABE 489A, ABE 489B, ABE 493, ABE 496A, ABE 497C, ABE 498A, ABE 498B, ABE 498H, ABE 499, ABE 499H, ABE 516A, ABE 522, ABE 523, ABE 526, ABE 527, ABE 528, ABE 547, ABE 552, ABE 552-SA, ABE 555, ABE 556, ABE 558, ABE 559, ABE 567, ABE 575A, ABE 579, ABE 580, ABE 581A, ABE 581B, ABE 582, ABE 583, ABE 584, ABE 586, ABE 588, ABE 589A, ABE 589B, ABE 593, ABE 597C, ABE 599, ABE 601, ABE 605, ABE 613, ABE 622, ABE 688, ABE 693, ABE 696A, ABE 699, ABE 900, ABE 908, ABE 909, ABE 910, ABE 920, ABE 3TR, ABE 230, ABE 250, ABE 293, ABE 299, ABE 299-SA, ABE 300, ABE 301, ABE 302, ABE 320, ABE 321, ABE 323, ABE 324A, ABE 324B, ABE 324L, ABE 331, ABE 352, ABE 392, ABE 399, ABE 399-SA, ABE 399H, ABE 400, ABE 401, ABE 413A, ABE 413B, ABE 420A, ABE 422A, ABE 424, ABE 425, ABE 426, ABE 427, ABE 428A, ABE 430, ABE 431, ABE 432, ABE 433, ABE 442, ABE 444, ABE 445, ABE 446, ABE 451, ABE 452, ABE 455, ABE 457, ABE 460, ABE 462, ABE 463, ABE 466, ABE 472, ABE 473, ABE 474, ABE 480, ABE 483, ABE 487, ABE 488, ABE 489A, ABE 489B, ABE 492, ABE 493, ABE 493-SA, ABE 495S, ABE 498H, ABE 499, ABE 499-SA, ABE 499H, ABE 500A, ABE 500B, ABE 520, ABE 522, ABE 524, ABE 525, ABE 528, ABE 530, ABE 531, ABE 532, ABE 533, ABE 535, ABE 536A, ABE 536B, ABE 536C, ABE 538, ABE 542, ABE 544, ABE 545, ABE 546, ABE 549, ABE 550, ABE 552, ABE 553, ABE 558, ABE 560, ABE 561, ABE 562, ABE 563, ABE 564A, ABE 564B, ABE 565, ABE 566, ABE 567, ABE 568, ABE 572, ABE 573, ABE 574, ABE 575, ABE 576, ABE 577, ABE 580, ABE 583, ABE 585, ABE 586, ABE 588, ABE 589A, ABE 589B, ABE 599, ABE 603, ABE 606, ABE 620, ABE 632, ABE 635, ABE 639, ABE 696G, ABE 699, ABE 799, ABE 900, ABE 908, ABE 909, ABE 910, ABE 920, BME 3TR, BME 295C, BME 299, BME 299H, BME 330, BME 416, BME 417, BME 466, BME 480, BME 481B, BME 483, BME 484, BME 486, BME 492, BME 493B, BME 495C, BME 497G, BME 499, BME 510, BME 511, BME 516, BME 517, BME 524, BME 561, BME 566, BME 581B, BME 583, BME 584, BME 586, BME 593B, BME 595B, BME 595C, BME 597G, BME 599, BME 630, BME 638, BME 680, BME 681, BME 693A, BME 696A, BME 696C, BME 900, BME 909, BME 910, BME 920, CE 3TR, CE 210, CE 214, CE 215, CE 215-CC, CE 218, CE 251, CE 293, CE 294, CE 299, CE 299-SA, CE 299H, CE 299H-SA, CE 301, CE 303, CE 310, CE 323, CE 329, CE 333, CE 334, CE 335, CE 343, CE 349, CE 363, CE 370L, CE 370R, CE 381, CE 389, CE 393, CE 393-SA, CE 394, CE 399, CE 399-SA, CE 399H, CE 399H-SA, CE 402, CE 408A, CE 408B, CE 410, CE 411, CE 422, CE 423, CE 426, CE 427, CE 429, CE 432, CE 433, CE 434, CE 435, CE 437, CE 438, CE 440, CE 441, CE 442, CE 444, CE 445, CE 446, CE 448, CE 449, CE 455, CE 456, CE 458, CE 460, CE 462A, CE 463, CE 464A, CE 466, CE 468, CE 469, CE 473, CE 476A, CE 476B, CE 478, CE 484, CE 493, CE 494, CE 498, CE 498H, CE 499, CE 499H, CE 502, CE 503, CE 504, CE 510, CE 511, CE 522, CE 523, CE 525, CE 526, CE 527, CE 529, CE 532, CE 534, CE 535, CE 537, CE 538, CE 540, CE 541, CE 542, CE 543, CE 544, CE 545, CE 546, CE 548, CE 549, CE 555, CE 556, CE 558, CE 560, CE 561, CE 562A, CE 563, CE 564A, CE 566, CE 568, CE 569, CE 573, CE 574, CE 576A, CE 576B, CE 578, CE 584, CE 584A, CE 593, CE 594, CE 596A, CE 599, CE 606, CE 622, CE 630, CE 632, CE 633, CE 638, CE 638, CE 648, CE 655, CE 663, CE 664, CE 676, CE 900, CE 909, CE 910, CE 920, CHEE 3TR, CHEE 201, CHEE 201L, CHEE 202, CHEE 203, CHEE 204, CHEE 299, CHEE 299H, CHEE 301A, CHEE 301B, CHEE 303, CHEE 305, CHEE 326, CHEE 370L, CHEE 370R, CHEE 370R-CC, CHEE 399, CHEE 399-SA, CHEE 399H, CHEE 400L, CHEE 400R, CHEE 401A, CHEE 402, CHEE 412, CHEE 413, CHEE 415, CHEE 420, CHEE 435, CHEE 436, CHEE 437, CHEE 442, CHEE 443, CHEE 471, CHEE 473, CHEE 476A, CHEE 476B, CHEE 477L, CHEE 477R, CHEE 478, CHEE 481A, CHEE 481B, CHEE 482, CHEE 488, CHEE 494A, CHEE 498, CHEE 498H, CHEE 499, CHEE 499H, CHEE 500L, CHEE 500R, CHEE 501A, CHEE 502, CHEE 505, CHEE 506, CHEE 510, CHEE 512, CHEE 515, CHEE 520, CHEE 525, CHEE 530, CHEE 535, CHEE 537, CHEE 542, CHEE 569A, CHEE 569B, CHEE 571, CHEE 572, CHEE 573, CHEE 574, CHEE 576A, CHEE 576B, CHEE 577L, CHEE 577R, CHEE 578, CHEE 581A, CHEE 581B, CHEE 582, CHEE 583, CHEE 588, CHEE 591, CHEE 594, CHEE 597A, CHEE 597B, CHEE 599, CHEE 605, CHEE 676, CHEE 696A, CHEE 696B, CHEE 696C, CHEE 696F, CHEE 900, CHEE 909, CHEE 910, CHEE 920, ECE 3TR, ECE 201R, ECE 202R, ECE 207, ECE 220, ECE 274A, ECE 275, ECE 299, ECE 299H, ECE 304A, ECE 310, ECE 320A, ECE 330A, ECE 340A, ECE 351C, ECE 352, ECE 360, ECE 369A, ECE 370, ECE 372A, ECE 373, ECE 381A, ECE 392, ECE 399, ECE 399H, ECE 401, ECE 403A, ECE 404, ECE 407, ECE 408, ECE 411, ECE 414A, ECE 415, ECE 417, ECE 421, ECE 422, ECE 425, ECE 429, ECE 430, ECE 434, ECE 435, ECE 435A, ECE 441A, ECE 442, ECE 446, ECE 447A, ECE 449, ECE 450, ECE 451A, ECE 453, ECE 456, ECE 458, ECE 459, ECE 462, ECE 465, ECE 466, ECE 467, ECE 473, ECE 474A, ECE 478, ECE 479, ECE 481, ECE 482A, ECE 484, ECE 485D, ECE 486, ECE 487, ECE 488, ECE 492, ECE 493, ECE 493A, ECE 494A, ECE 498A, ECE 498B, ECE 498H, ECE 499, ECE 499H, ECE 500A, ECE 500B, ECE 500C, ECE 500D, ECE 500E, ECE 500F, ECE 501A, ECE 501B, ECE 502, ECE 503, ECE 503A, ECE 503B, ECE 504, ECE 505, ECE 506, ECE 507, ECE 508, ECE 509, ECE 510, ECE 511, ECE

512, ECE 514A, ECE 515, ECE 516, ECE 517, ECE 518, ECE 519, ECE 520, ECE 521, ECE 522, ECE 527, ECE 528, ECE 529, ECE 530, ECE 531, ECE 532, ECE 533, ECE 534, ECE 535, ECE 535A, ECE 537, ECE 538, ECE 539, ECE 539A, ECE 540, ECE 541, ECE 541A, ECE 542, ECE 543, ECE 546, ECE 547A, ECE 549, ECE 550, ECE 551A, ECE 552, ECE 553, ECE 554, ECE 556, ECE 559, ECE 561, ECE 562, ECE 563, ECE 564, ECE 565, ECE 566, ECE 567, ECE 568, ECE 569, ECE 570, ECE 572, ECE 573, ECE 574A, ECE 575, ECE 576, ECE 577, ECE 578, ECE 579, ECE 581A, ECE 581B, ECE 583, ECE 584, ECE 585D, ECE 586, ECE 587, ECE 587L, ECE 588, ECE 589, ECE 591, ECE 593, ECE 596A, ECE 596C, ECE 599, ECE 625, ECE 631, ECE 632, ECE 633, ECE 634, ECE 635, ECE 636, ECE 637, ECE 638, ECE 639, ECE 654, ECE 659, ECE 672, ECE 676, ECE 677, ECE 678, ECE 688, ECE 693, ECE 696A, ECE 696B, ECE 699, ECE 799, ECE 900, ECE 909, ECE 910, ECE 920, ENGR 3TR, ENGR 211C, ENGR 211E, ENGR 211F, ENGR 211I, ENGR 211K, ENGR 211M, ENGR 211P, ENGR 211R, ENGR 221, ENGR 225, ENGR 257A, ENGR 257B, ENGR 258, ENGR 265, ENGR 317, ENGR 367, ENGR 412A, ENGR 414, ENGR 420L, ENGR 420R, ENGR 422, ENGR 435, ENGR 436, ENGR 452, ENGR 479, ENGR 481A, ENGR 488, ENGR 498A, ENGR 498B, ENGR 498C, ENGR 498D, ENGR 502, ENGR 512A, ENGR 512B, ENGR 514, ENGR 520L, ENGR 520R, ENGR 521, ENGR 522, ENGR 552, ENGR 565, ENGR 567, ENGR 581A, ENGR 596S, ENGR 596T, ENGR 696H, MATH 1CMA, MATH 3TR, MATH 202, MATH 205, MATH 215, MATH 223, MATH 223-CC, MATH 243, MATH 243-CC, MATH 250A, MATH 250B, MATH 254, MATH 254-CC, MATH 263, MATH 263-CC, MATH 293, MATH 294A, MATH 299, MATH 299H, MATH 302A, MATH 302B, MATH 315, MATH 322, MATH 323, MATH 330, MATH 355, MATH 361, MATH 362, MATH 363, MATH 368, MATH 368-CC, MATH 393, MATH 396C, MATH 399, MATH 399H, MATH 401A, MATH 401B, MATH 402, MATH 404, MATH 406A, MATH 406B, MATH 407, MATH 410, MATH 413, MATH 415A, MATH 415B, MATH 422, MATH 424, MATH 425A, MATH 425B, MATH 432, MATH 443, MATH 445, MATH 446, MATH 447, MATH 454, MATH 454-CC, MATH 456, MATH 461, MATH 464, MATH 464, MATH 466, MATH 468, MATH 475A, MATH 475B, MATH 479, MATH 485, MATH 488, MATH 493, MATH 494C, MATH 498, MATH 498H, MATH 499, MATH 499H, MATH 500A, MATH 501A, MATH 501B, MATH 502, MATH 504, MATH 505C, MATH 505D, MATH 505E, MATH 505F, MATH 506A, MATH 506B, MATH 506C, MATH 507C, MATH 507D, MATH 507E, MATH 507F, MATH 509C, MATH 511A, MATH 511B, MATH 513, MATH 514A, MATH 514B, MATH 515A, MATH 515B, MATH 516, MATH 517A, MATH 517B, MATH 518, MATH 519, MATH 520A, MATH 520B, MATH 521, MATH 522, MATH 523A, MATH 523B, MATH 524, MATH 525A, MATH 525B, MATH 527A, MATH 527B, MATH 528A, MATH 528B, MATH 529, MATH 532, MATH 534A, MATH 534B, MATH 536A, MATH 536B, MATH 537A, MATH 537B, MATH 538, MATH 539, MATH 541, MATH 543, MATH 546, MATH 547, MATH 553A, MATH 553B, MATH 554, MATH 556, MATH 557A, MATH 557B, MATH 559A, MATH 559B, MATH 563, MATH 564, MATH 565A, MATH 565B, MATH 565C, MATH 566, MATH 567A, MATH 567B, MATH 568, MATH 571A, MATH 571B, MATH 573, MATH 574E, MATH 574G, MATH 574M, MATH 574T, MATH 575A, MATH 575B, MATH 576A, MATH 576B, MATH 577, MATH 579, MATH 582, MATH 583A, MATH 583B, MATH 585, MATH 586, MATH 587, MATH 588, MATH 593, MATH 595A, MATH 595B, MATH 595C, MATH 595D, MATH 596A, MATH 596B, MATH 596C, MATH 596F, MATH 596G, MATH 597T, MATH 599, MATH 636, MATH 697B, MATH 699, MATH 900, MATH 910, MATH 920, MNE 3TR, MNE 204, MNE 205, MNE 210, MNE 296A, MNE 297A, MNE 297B, MNE 297C, MNE 299, MNE 299H, MNE 391, MNE 391H, MNE 392, MNE 396A, MNE 397A, MNE 399, MNE 399H, MNE 402, MNE 406B, MNE 407, MNE 409, MNE 411, MNE 412, MNE 415, MNE 419, MNE 421, MNE 422, MNE 426, MNE 427, MNE 430, MNE 434, MNE 436, MNE 438, MNE 439, MNE 441, MNE 447, MNE 450, MNE 465, MNE 467, MNE 476, MNE 484, MNE 490, MNE 492, MNE 493, MNE 494, MNE 494A, MNE 498, MNE 498H, MNE 499, MNE 499H, MNE 502, MNE 504B, MNE 504C, MNE 506B, MNE 507, MNE 509, MNE 511, MNE 512, MNE 513, MNE 515, MNE 519, MNE 521, MNE 522, MNE 526, MNE 527, MNE 529, MNE 530, MNE 533M, MNE 534, MNE 536, MNE 538, MNE 539, MNE 541, MNE 543C, MNE 547, MNE 550, MNE 565, MNE 567, MNE 576, MNE 580, MNE 587, MNE 590, MNE 593, MNE 594, MNE 594A, MNE 597A, MNE 597B, MNE 597C, MNE 597D, MNE 599, MNE 615, MNE 670, MNE 696A, MNE 696B, MNE 696C, MNE 697A, MNE 697B, MNE 697C, MNE 697D, MNE 697E, MNE 697F, MNE 697G, MNE 697H, MNE 697J, MNE 697K, MNE 697M, MNE 697N, MNE 697O, MNE 697P, MNE 699, MNE 900, MNE 909, MNE 910, MNE 920, MSE 3TR, MSE 222, MSE 223L, MSE 223R, MSE 225, MSE 250, MSE 257A, MSE 257B, MSE 258, MSE 293, MSE 299, MSE 299H, MSE 300, MSE 301, MSE 302, MSE 303, MSE 304, MSE 320, MSE 331L, MSE 331R, MSE 345, MSE 350, MSE 360L, MSE 365, MSE 397B, MSE 399, MSE 399H, MSE 404, MSE 405A, MSE 411, MSE 412, MSE 414, MSE 415, MSE 420, MSE 424, MSE 425, MSE 434, MSE 435, MSE 437, MSE 443, MSE 446, MSE 447L, MSE 450, MSE 455, MSE 460, MSE 461, MSE 462, MSE 464, MSE 465, MSE 468, MSE 470, MSE 471, MSE 471L, MSE 473, MSE 479, MSE 480, MSE 488, MSE 489, MSE 491, MSE 493, MSE 496A, MSE 498, MSE 498H, MSE 499, MSE 499H, MSE 502, MSE 503, MSE 504, MSE 505A, MSE 510, MSE 511, MSE 512, MSE 515, MSE 520, MSE 521, MSE 524, MSE 525, MSE 531A, MSE 532A, MSE 534, MSE 535, MSE 537, MSE 546, MSE 547L, MSE 550, MSE 551, MSE 554, MSE 555, MSE 560, MSE 561, MSE 562, MSE 564, MSE 565, MSE 568, MSE 570, MSE 571, MSE 571L, MSE 572, MSE 573, MSE 574, MSE 579, MSE 580, MSE 588, MSE 589, MSE 595A, MSE 596A, MSE 596S, MSE 599, MSE 693, MSE 697B, MSE 699, MSE 900, MSE 909, MSE 910, MSE 920, OPTI 3TR, OPTI 200, OPTI 201L, OPTI 201R, OPTI 202L, OPTI 202R, OPTI 240, OPTI 280, OPTI 299, OPTI 299H, OPTI 300, OPTI 310, OPTI 330, OPTI 340, OPTI 340A, OPTI 360, OPTI 370, OPTI 380A, OPTI 380B, OPTI 392, OPTI 396H, OPTI 399, OPTI 399H, OPTI 403A, OPTI 404, OPTI 406, OPTI 414, OPTI 414A, OPTI 415, OPTI 415L, OPTI 416, OPTI 421, OPTI 421L, OPTI 422, OPTI 423, OPTI 423L, OPTI 424A, OPTI 425, OPTI 429, OPTI 430, OPTI 434, OPTI 435, OPTI 439A, OPTI 441, OPTI 447, OPTI 468, OPTI 471A, OPTI 471B, OPTI 475, OPTI 481A, OPTI 485, OPTI 487, OPTI 489, OPTI 489A, OPTI 490, OPTI 492, OPTI 493, OPTI 498H, OPTI 499, OPTI 499-SA, OPTI 499H, OPTI 500, OPTI 500A, OPTI 500B, OPTI 500C, OPTI 500D, OPTI 500E, OPTI 500F, OPTI 501, OPTI 502, OPTI 502L, OPTI 503, OPTI 503A, OPTI 503B, OPTI 504, OPTI 505L, OPTI 505R, OPTI 506, OPTI 507, OPTI 508, OPTI 509, OPTI 510R, OPTI 511L, OPTI 511R, OPTI 512L, OPTI 512R, OPTI 513L, OPTI 513R, OPTI 514, OPTI 514A, OPTI 515, OPTI 515L, OPTI 516, OPTI 517, OPTI 518, OPTI 519, OPTI 520, OPTI 521, OPTI 521L, OPTI 522, OPTI 523, OPTI 523L, OPTI 524A, OPTI 525, OPTI 526, OPTI 527, OPTI 529, OPTI 530, OPTI 531, OPTI 532, OPTI 533, OPTI 534, OPTI 535, OPTI 536, OPTI 537, OPTI 539A, OPTI 540, OPTI 541, OPTI 544, OPTI 546, OPTI 547, OPTI 549, OPTI 553, OPTI 561, OPTI 566, OPTI 568, OPTI 570A, OPTI 573, OPTI 574, OPTI 575, OPTI 576, OPTI 578, OPTI 581A, OPTI 583, OPTI 585, OPTI 586, OPTI 586L, OPTI 587, OPTI 587L, OPTI 588, OPTI 589, OPTI 589A, OPTI 590, OPTI 595A, OPTI 596C, OPTI 596E, OPTI 597A, OPTI 597B, OPTI 599, OPTI 604, OPTI 617,

OPTI 623, OPTI 626, OPTI 630, OPTI 632, OPTI 634, OPTI 636, OPTI 637, OPTI 638, OPTI 646, OPTI 656A, OPTI 656B, OPTI 671, OPTI 677, OPTI 696A, OPTI 696D, OPTI 900, OPTI 909, OPTI 910, OPTI 920, PHYS 3TR, PHYS 201, PHYS 204, PHYS 240, PHYS 241, PHYS 242, PHYS 251, PHYS 253, PHYS 261H, PHYS 263H, PHYS 299, PHYS 299H, PHYS 305, PHYS 320, PHYS 321, PHYS 331, PHYS 332, PHYS 371, PHYS 381, PHYS 382, PHYS 391, PHYS 392, PHYS 396H, PHYS 399, PHYS 399H, PHYS 405, PHYS 422, PHYS 426, PHYS 427, PHYS 430, PHYS 431, PHYS 433, PHYS 439, PHYS 440, PHYS 444, PHYS 445E, PHYS 450, PHYS 460, PHYS 468, PHYS 469, PHYS 472, PHYS 473, PHYS 474, PHYS 476, PHYS 478, PHYS 480, PHYS 481, PHYS 483, PHYS 484, PHYS 492, PHYS 492-SA, PHYS 494, PHYS 496A, PHYS 498, PHYS 498H, PHYS 499, PHYS 499H, PHYS 502, PHYS 503, PHYS 505, PHYS 506, PHYS 511, PHYS 513, PHYS 515A, PHYS 515B, PHYS 520, PHYS 522, PHYS 528, PHYS 530, PHYS 531, PHYS 533, PHYS 534, PHYS 537, PHYS 540, PHYS 541, PHYS 544, PHYS 545C, PHYS 545E, PHYS 546, PHYS 551, PHYS 552, PHYS 558, PHYS 560A, PHYS 560B, PHYS 561, PHYS 562, PHYS 563, PHYS 564, PHYS 566, PHYS 568, PHYS 569, PHYS 570A, PHYS 570B, PHYS 572, PHYS 573, PHYS 574, PHYS 576, PHYS 577, PHYS 578, PHYS 579A, PHYS 579B, PHYS 579C, PHYS 580, PHYS 581, PHYS 586, PHYS 589, PHYS 591, PHYS 593, PHYS 596A, PHYS 596C, PHYS 596E, PHYS 596F, PHYS 596H, PHYS 599, PHYS 601A, PHYS 601B, PHYS 695A, PHYS 697B, PHYS 699, PHYS 900, PHYS 909, PHYS 910, PHYS 920, SIE 3TR, SIE 250, SIE 265, SIE 270, SIE 270-CC, SIE 277, SIE 295S, SIE 299, SIE 299H, SIE 299H-SA, SIE 305, SIE 305-CC, SIE 305-SA, SIE 321, SIE 330L, SIE 330R, SIE 340, SIE 350, SIE 367, SIE 370, SIE 375, SIE 377, SIE 383, SIE 396A, SIE 399, SIE 399H, SIE 406, SIE 408, SIE 410A, SIE 414, SIE 415, SIE 422, SIE 430, SIE 431, SIE 440, SIE 443, SIE 452, SIE 453, SIE 454A, SIE 456, SIE 457, SIE 462, SIE 463, SIE 464, SIE 482, SIE 483, SIE 484, SIE 485, SIE 487, SIE 492, SIE 498A, SIE 498B, SIE 498H, SIE 499, SIE 499H, SIE 500A, SIE 500B, SIE 500C, SIE 506, SIE 508, SIE 514, SIE 515, SIE 520, SIE 522, SIE 525, SIE 530, SIE 531, SIE 533, SIE 536, SIE 540, SIE 543, SIE 544, SIE 545, SIE 546, SIE 547, SIE 548, SIE 550, SIE 552, SIE 554A, SIE 556, SIE 557, SIE 558, SIE 561, SIE 562, SIE 564, SIE 567, SIE 570, SIE 583, SIE 584, SIE 585, SIE 589, SIE 596E, SIE 599, SIE 606, SIE 608, SIE 631, SIE 640, SIE 644, SIE 645, SIE 649, SIE 654, SIE 678, SIE 695A, SIE 699, SIE 900, SIE 909, SIE 910, SIE 920

**OR 2. Opto-Electronics Track**

(R2963/L30)

**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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type
	ECE	220						
	ECE	274A						
	ECE	381A						

**Courses Available**

ECE 220, ECE 274A, ECE 381A

**AND 2. Opto-Electronics Track**

(R2963/L50)

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

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

ECE 3TR, ECE 304A, ECE 310, ECE 320A, ECE 330A, ECE 340A, ECE 351C, ECE 352, ECE 360, ECE 369A, ECE 370, ECE 372A, ECE 373, ECE 381A, ECE 392, ECE 399, ECE 399H, ECE 401, ECE 403A, ECE 404, ECE 407, ECE 408, ECE 411, ECE 414A, ECE 415, ECE 417, ECE 421, ECE 422, ECE 425, ECE 429, ECE 430, ECE 434, ECE 435, ECE 435A, ECE 441A, ECE 442, ECE 446, ECE 447A, ECE 449, ECE 450, ECE 451A, ECE 453, ECE 456, ECE 458, ECE 459, ECE 462, ECE 465, ECE 466, ECE 467, ECE 473, ECE 474A, ECE 478, ECE 479, ECE 481, ECE 482A, ECE 484, ECE 485D, ECE 486, ECE 487, ECE 488, ECE 492, ECE 493, ECE 493A, ECE 494A, ECE 498A, ECE 498B, ECE 498H, ECE 499, ECE 499H

**OR 3. Optical Materials Track**

(R2963/L70)

**Not Satisfied:** Complete 4 courses

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

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

AND 3. Optical Materials Track Advisor Approved Courses

(R2963/L80)

**Not Satisfied:** Complete 4 units as approved by advisor

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

MSE 3TR, MSE 300, MSE 301, MSE 302, MSE 303, MSE 304, MSE 320, MSE 331L, MSE 331R, MSE 345, MSE 350, MSE 360L, MSE 365, MSE 397B, MSE 399, MSE 399H, MSE 404, MSE 405A, MSE 411, MSE 412, MSE 414, MSE 415, MSE 420, MSE 424, MSE 425, MSE 434, MSE 435, MSE 437, MSE 443, MSE 446, MSE 447L, MSE 450, MSE 455, MSE 460, MSE 461, MSE 462, MSE 464, MSE 465, MSE 468, MSE 470, MSE 471, MSE 471L, MSE 473, MSE 479, MSE 480, MSE 488, MSE 489, MSE 491, MSE 493, MSE 496A, MSE 498, MSE 498H, MSE 499, MSE 499H

OR 4. Opto-Mechanics Track

(R2963/L90)

**Not Satisfied:** Complete 4 courses

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type
	AME	250						
	AME	324A						
	AME	324B						
	CE	214						

**Courses Available**

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

AND 4. Opto-Mechanics Track

(R2963/L100)

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

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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type



Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Courses Available**

AME 3TR, AME 300, AME 301, AME 302, AME 320, AME 321, AME 323, AME 324A, AME 324B, AME 324L, AME 331, AME 352, AME 392, AME 399, AME 399-SA, AME 399H, AME 400, AME 401, AME 413A, AME 413B, AME 420A, AME 422A, AME 424, AME 425, AME 426, AME 427, AME 428A, AME 430, AME 431, AME 432, AME 433, AME 442, AME 444, AME 445, AME 446, AME 451, AME 452, 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, AME 492, AME 493, AME 493-SA, AME 495S, AME 498H, AME 499, AME 499-SA, AME 499H

**Optical Sciences & Engineering Graduation Requirements**

(R2982)

**Overall Requirement Not Satisfied:** Optical Sciences & Engineering Graduation Requirements

**Mid Career Writing Assessment**

(R2982/L20)

**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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Major GPA**

(R2982/L40)

**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**

(R2982/L60)

**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

Term	Subject	Catalog Nbr	Course Title	Grade	Units	RptCd	RqDes	Type

**Minor Optional**

(R1341)

**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.