Academic Advisement Report
UGRD.ENG.ENG.MSEBSMSE
Undergraduate Career
College of Engineering Program
Materials Science & Engr Major (BSMSE)
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
122 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 58 units of course work must be completed at a 4-year institution, military institution, or as test credit.
- Units: 58.00 required, 0.00 completed, 58.00 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

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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


- Courses: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

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

OR 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

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Courses Available

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

OR Option 3: Honors Composition

Not Satisfied: 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 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, HNRS 150A1, LINQ 150A1, MIS 150A1, PHIL 150A1, POL 150A1, PSY 150A1, AED 150C1, AREC 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, NSC 150C1, PHIL 150C1, PLP 150C1, POL 150C1, POL 150C2, POL 150C3, RNR 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
### Courses Available

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### Diversity Emphasis Course

**Not Satisfied:** One course must be taken that focuses on Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies.

Courses used to fulfill this requirement may also be used to fulfill other requirements.

### Diversity Emphasis Course

**Not Satisfied:** General Education Diversity Emphasis Course: Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies.

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

MUS 231, MUS 334, MUS 337, MUS 344, NESV 334, NESV 375, PHIL 222, PHIL 223, PHIL 325, PHIL 330, POL
160A1, POL 330, POL 332, POL 335, POL 345, POL 441, POL 464, POL 468, POL 476, RELI 130, RELI 160A1, RELI
160D4, RELI 210, RELI 212, RELI 220, RELI 230, RELI 277A, RELI 315, RELI 323, RELI 324, RELI 331, RELI 333,
381, RELI 483, RELI 484A, RELI 484B, RELI 485, RELI 486, RELI 489, RELV 334, RSSS 150B2, RSSS 315, RSSS
328, RSSS 350, SOC 202, SOC 220, SOC 222, SOC 260, SOC 280, SOC 324, SOC 325, SOC 355, SOC 357, SOC
362, SOC 427, SOC 432, SOC 448, SOC 450, SOC 459, SOC 467, SPAN 150B1, SPAN 150B2, SPAN 210, TLS 150C1

**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.

**BSMSE in Materials Science & Engineering**

Overall Requirement Not Satisfied: Bachelor of Science Materials Science & Engineering. In order to take Advanced Courses in this major, a student must achieve Advanced Standing. This requires a GPA of 2.00 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.

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

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**Courses Available**

MATH 122B, MATH 125

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 - 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 - Differential Equations  

**Not Satisfied:** Complete 3 units.

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

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**MATH 254, MATH 355**

Science - Gen Chemistry I  

**Not Satisfied:** Complete 4 units.

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

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**CHEM 151, Approved Transfer Course, 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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**MSE 110**

Science - Intro Mechanics Physics  

**Not Satisfied:** Complete 4 units.

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

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### Courses Available

**PHYS 241, PHYS 261H**  
*Engineering Courses - Materials Science*  
*Not Satisfied:* Complete 6 units.  
- **Units:** 6.00 required, 0.00 completed, 6.00 needed

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### Courses Available

**MSE 222, MSE 223R**  
*Engineering Courses - Additional Courses I*  
*Not Satisfied:* Complete 3 units.  
- **Units:** 3.00 required, 0.00 completed, 3.00 needed

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### 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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Courses Available

ENGL 109H

Materials Science and Engineering Advanced Courses

Overall Requirement Not Satisfied: Materials Science and Engineering Advanced Courses

1. Materials Science and Engineering Math Elective

Not Satisfied: Complete 3 units. Must be chosen in consultation with advisor.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

MATH 310, MATH 322, MATH 362, MATH 363, MATH 413, MATH 415A, MATH 468, MATH 475A, MATH 475B, MATH 485, SIE 305

2. Materials Science and Engineering Advanced Science Elective

Not Satisfied: Complete 3 units. Must be chosen in consultation with advisor. Students may take 200/300/400 level courses in the following subject areas: BIOL, CHEM, ECOL, GEOS, MCB, PHYS.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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3. Materials Science and Engineering Advanced Core Courses

Not Satisfied: Complete 21 units.

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- Units: 21.00 required, 0.00 completed, 21.00 needed

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Courses Available

MSE 223L, MSE 345, MSE 350, MSE 360L, MSE 365, MSE 415, MSE 480

4. Additional Engineering Courses I

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

ECE 207

5. Additional Engineering Courses II

Not Satisfied: Complete 6 units.

- Units: 6.00 required, 0.00 completed, 6.00 needed

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Courses Available

ENGR 498A, MSE 498, ENGR 498B

Materials Science and Engineering Technical Electives

Overall Requirement Not Satisfied: Technical electives.

1. Materials Science and Engineering Technical Electives

Not Satisfied: Complete 12 units. Must be chosen in consultation with advisor. Only 6 units of Independent Study can be used towards MSE Technical Electives.

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


#### 2. Additional Technical Electives

**Not Satisfied:** Complete 12 units. Must be chosen in consultation with advisor. Students may take 200/300/400 level courses in the following subject areas with advisor approval: ABE, ACCT, AME, BIOC, BME, BNAD, CE, CHEE, CHEM, ECE, ECOL, ECON, ENGR, GEOS, MATH, MNE, MSE, OPTI, PHYS, SIE.

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

### Materials Science & Engineering Graduation Requirements

**Overall Requirement Not Satisfied:** Materials Science & 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
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**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.