Academic Advisement Report
UGRD: UENG. BM EBSBME
Undergraduate Career
College of Engineering Program
Biomedical Engineering Major (BSBME)
Requirement Term: Fall 2017

Undergraduate Graduation Requirements
All course work and requirements for this degree must be completed prior to the date the degree is awarded. The University of Arizona requirements to follow in this audit are required for graduation and awarding of the degree.

Curriculum:
1. The University of Arizona and the Arizona Board of Regents have sole discretion over all curricula changes.
2. Courses, programs & requirements may be suspended, deleted, restricted, or changed in any manner, at any time.
3. Students must remain currently informed about all policies & other info that bears on completing a degree.

Required Units:
Additional units will be required to complete this degree if a student:
A) is admitted to the UA with deficiencies;
B) changes his/her academic plan(s);
C) fails to meet minimum course/plan requirements;
D) ineffectively plans or fails to execute a course of study that leads directly to degree completion; or
E) Candidates for a second bachelor's degree at The University of Arizona with a different award date than the first must earn no fewer than 30 units of University Credit in addition to the units required for the first degree, and must meet all requirements for the second degree.

The following requirements must be met for graduation.

Units Required and Cumulative GPA
128 units are required at a 2.0 GPA. View the pdf report grid for units earned toward this degree and cumulative GPA.

Completing a second bachelor's degree at The University of Arizona requires no fewer than 30 units in addition to the units required for the first degree, and all requirements for the second degree must be met.

Upper Division Units
Not Satisfied: A minimum of 42 units of upper-division credit are required for this degree.

- Units: 42.00 required, 0.00 completed, 42.00 needed

Units in Residence
Not Satisfied: A minimum of 30 units in residence at The University of Arizona (excluding correspondence credit and credit by exam) is required.

- Units: 30.00 required, 0.00 completed, 30.00 needed

Final Units in Residence
A minimum of 18 of the final 30 units taken toward degree requirements must be in residence at The University of Arizona.
Consult with your academic advisor if you plan to use transfer credits to fulfill your degree requirements.

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

- Units: 0.00 completed
Non Degree Seeking Limit
A maximum of 15 units completed as a non-degree seeking student may be used for fulfilling undergraduate degree requirements. Units exceeding this limit (shown below) must be subtracted from the units required towards the degree and graduation requirements.

Community College Limit
**Not Satisfied:** A maximum of 64 units of community college course work may apply toward graduation. A minimum of 64 units of course work must be completed at a 4-year institution, military institution, or as test credit.
- **Units:** 64.00 required, 0.00 completed, 64.00 needed

Success Course Limit
**Satisfied:** No more than 3 units will apply toward a student's graduation requirements. All Success courses taken can be seen below. Success Course units exceeding the 3 unit maximum must be subtracted from the total units, residency requirements and cumulative grade point average.

PE Activity Course Limit
**Satisfied:** No more than 3 units will apply toward a student's graduation requirements. All PE activity courses taken can be seen below. PE Activity units exceeding the 3 unit maximum must be subtracted from the total units, residency requirements and cumulative grade point average.

Foundation Mathematics
**Not Satisfied:** Foundation Mathematics

GE Substantial Math Strand
**Not Satisfied:** GE Substantial Math Strand

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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

Courses Available

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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

Courses Available

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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


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.

BSBME in Biomedical Engineering
Overall Requirement Not Satisfied: Bachelor of Science in Biomedical Engineering. In order to take Advanced Courses in this major, a student must achieve Advanced Standing. This requires a GPA of 2.75 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

Courses Available
MATH 122B, MATH 125

Math - Calculus II
Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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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### Courses Available

**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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### Courses Available

**CHEM 151, Approved Transfer Course, CHEM 105A, CHEM 106A**

Science - Gen Chemistry II

*Not Satisfied:* Complete 4 units.

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

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### Courses Available

**CHEM 152, Approved Transfer Course, CHEM 105B, CHEM 106B**

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**

*Science - Molecular and Cellular Biology*  
*Not Satisfied:* Complete 4 units.

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

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**Courses Available**

**MCB 181L, MCB 181R, Approved Transfer Course**

*Science - PSIO I*  
*Not Satisfied:* Complete 4 units.

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

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**Courses Available**

**PSIO 201**

*Science - PSIO II OR Ecology II*  
*Not Satisfied:* Complete 4 units.

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

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**Courses Available**

PSIO 202, ECOL 182L, ECOL 182R, Approved Transfer Course

**Engineering Courses - Biomedical**

Not Satisfied: Complete 7 units. Complete 1 course from BME 214 or CE 214

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

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**Courses Available**

BME 210, BME 214, BME 295C, CE 214

**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

**Engineering Courses - Biomedical Additional Courses II**

Not Satisfied: Complete 3 units.

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

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**Courses Available**

ABE 284, AME 230
Engineering Courses - Biomedical Additional Courses III

**Not Satisfied:** Complete 3 units.

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

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**Courses Available**

**ECE 175**

*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**

**Biomedical Engineering Advanced Courses**

*Overall Requirement Not Satisfied: Biomedical Engineering Advanced Courses*

1. **Biomedical Engineering Advanced Courses**

**Not Satisfied:** Complete 8 units.

- **Units:** 8.00 required, 0.00 completed, 8.00 needed

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Courses Available

BME 330, BME 480, BME 497G

2. Additional Engineering Advanced Courses I
Not Satisfied: Complete 12 units.

- Units: 12.00 required, 0.00 completed, 12.00 needed

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Courses Available

ABE 447, BME 447, AME 331, BME 331, ENGR 498A, ENGR 498B

3. Additional Engineering Advanced Courses II
Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

MATH 322, AME 301, ECE 330A

4. Additional Engineering Advanced Courses III
Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

MATH 363, SIE 305

5. Biomedical Engineering Specialization Courses
Not Satisfied: Complete 9 units.

- Units: 9.00 required, 0.00 completed, 9.00 needed

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6. Technical Electives

**Not Satisfied:** Complete 12 units in technical electives from below in consultation with and with approval from advisor to complete desired emphasis. A maximum of 6 units of BME 492 and 499 can be used in this area. Courses not included on this list must be approved prior to completion by BME advisor and BME Undergraduate Studies faculty.

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

Courses Available

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Biomedical Engineering Graduation Requirements

**Overall Requirement Not Satisfied:** Biomedical 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**

**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.