Academic Advisement Report
UGRD.UENGR.BMEBSBME
Undergraduate Career
College of Engineering Program
Biomedical Engineering Major (BSBME)
Requirement Term: Fall 2012

**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 intend 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.
**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 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

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**Courses Available**
**Undergraduate General Education and Foundation Requirements**

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

**Foundation Composition**

**Not Satisfied:** Complete 1 of the 2 following options:
1. First and Second Semester Composition OR
2. Honors Composition

Mid-Career Writing Assessment - Complete 2nd semester English Composition with a B grade or higher. Students who do not earn a grade of B or better in 2nd semester English Composition must also satisfy a college or department writing requirement. Consult your major advisor if you do not earn a grade of B in 2nd semester English Composition.

**Option 1: First Semester Composition**

**Not Satisfied:** Complete 1 course.

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

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**Courses Available**

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

**AND Option 1: Second Semester Composition**

**Not Satisfied:** AND Complete 1 course

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

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**Courses Available**

ENGL 102, ENGL 104H, ENGL 108

**OR Option 2: Honors Composition**

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

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

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**Courses Available**

ENGL 109H

**GE Foundation Second Language not required**

**Satisfied:** There is no second language required for your major.
General Education Tier I

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

Tier I Individuals & Societies

Not Satisfied: Fulfillment of Individuals and Societies requires completion of two distinctly numbered courses (e.g., INDV 101 & 103 or PSY 150A1 & ANTH 150B1 or PSY 150A1 & INDV 103).

Only one course may be completed from the 150A options OR INDV 101. Only one course may be completed from the 150B options OR INDV 102. Only one course may be completed from the 150C options OR INDV 103.

INDV 101 = 150A#
INDV 102 = 150B#
INDV 103 = 150C#

- Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available


Tier I Traditions & Cultures

Not Satisfied: Fulfillment of Traditions and Cultures requires completion of two distinctly numbered courses (e.g., TRAD 102 & 104 or AFAS 160C2 & RSSS 160C1 or TRAD 101 & RSSS 160C1).

Only one course may be completed from the 160A options OR TRAD 101. Only one course may be completed from the 160B options OR TRAD 102. Only one course may be completed from the 160C options OR TRAD 103. Only one course may be completed from the 160D options OR TRAD 104.

TRAD 101 = 160A#
TRAD 102 = 160B#
TRAD 103 = 160C#
TRAD 104 = 160D#

- Courses: 2.00 required, 0.00 completed, 2.00 needed
Courses Available


General Education Tier II

Overall Requirement Not Satisfied: Majors must complete Tier II Individual and Societies. Choose one additional Tier II courses from Tier II Arts or Tier II Humanities to complete the requirement.

Option 1: Tier II Arts
Not Satisfied: Complete 3 units.

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

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Courses Available


OR Option 2: Tier II Humanities
Not Satisfied: Complete 1 course. Prerequisite course work in Tier 1 Traditions and Cultures (TRAD) must be completed prior to taking. If LAT 201 or 202 are used to fulfill Foundation Second Language Proficiency, they cannot be used to fulfill Tier II Humanities.

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

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Courses Available

AFAS 200, AFAS 222, AFAS 224, AFAS 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 231, ENGL 245, ENGL 245-CC, ENGL 260, ENGL 260-SA, ENGL 265, ENGL 265-CC, ENGL 267,
AND Tier II Individual & Societies

Not Satisfied: Complete 1 course. Prerequisite course work in Tier 1 Individuals and Societies (INDV) must be completed prior to taking.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

### 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

### Courses Available

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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

Foundation Science

Overall Requirement Not Satisfied: Complete the following requirements

1. Option I: Calculus

Not Satisfied: Complete 2 courses

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

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

OR 1. Option II: Calculus

Not Satisfied: Complete 2 courses

- Courses: 2.00 required, 0.00 completed, 2.00 needed
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**Courses Available**

MATH 250A, MATH 250B

2. Vector Calculus

*Not Satisfied:* Complete 1 course

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

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**Courses Available**

MATH 223, MATH 223-CC

3. Physics

*Not Satisfied:* Complete 2 courses.

*Notes:*
Choose either PHYS 141 OR PHYS 161H
In addition, choose either PHYS 241 OR PHYS 261H

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

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**Courses Available**

PHYS 141, PHYS 241, Approved Transfer Work, PHYS 161H, PHYS 261H

4. Introductory 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, First Semester Chemistry, CHEM 103A, CHEM 103A-CC, CHEM 104A, CHEM 105A, CHEM 106A

5. Introductory Chemistry II

*Not Satisfied:* Complete 4 units

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

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Not Satisfied: Complete 4 units

- Units: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available

CHEM 152, (***) (###), CHEM 103B, CHEM 103B-CC, CHEM 104B, CHEM 105B, CHEM 106B

6. Biology I and Physiology I

Not Satisfied: Complete 8 units. A maximum of one course may be taken from MCB181R and MCB 184.

- Units: 8.00 required, 0.00 completed, 8.00 needed

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Courses Available

MCB 181L, MCB 181R, PSIO 201, MCB 184

7. Biology II or Physiology II

Not Satisfied: Complete 4 units

- Units: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available

ECOL 182L, ECOL 182R, PSIO 202

Biomedical Engineering Major

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Overall Requirement Not Satisfied: Complete the following requirements

Foundation Engineering

Not Satisfied: Complete 18 units. A maximum of one course may be taken from ABE 423 and AME 301. A maximum of one course may be taken from CE 218 and AME 331.

- Units: 18.00 required, 0.00 completed, 18.00 needed
- Courses: 0.00 completed

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**Courses Available**

ABE 205, ABE 284, CE 214, ECE 207, SIE 305, SIE 305-CC, SIE 305-SA, ABE 423, AME 301, AME 331, CE 218, ENGR 102

**Biomedical Engineering**

*Not Satisfied:* Complete 5 courses.

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

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**Courses Available**

ABE 447, BME 295C, BME 330, BME 480, BME 497G

**Capstone Design**

*Not Satisfied:* Complete 6 units.

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

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**Courses Available**

ENGR 498A, ENGR 498B

**Thrust Area Technical Electives**

*Overall Requirement Not Satisfied:* Choose one thrust area: Biomechanics, Biomaterials, or Biosensors/Microtechnologies and take the appropriate technical electives.

**Biomechanics**

*Not Satisfied:* Complete 4 courses.

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

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Courses Available

**Biomaterials**

Not Satisfied: Complete 5 courses. A maximum of one course may be taken from BME 461 or MSE 461.

- Courses: 5.00 required, 0.00 completed, 5.00 needed

Courses Available

**Organic Chem**

Biosensors/Microtechnologies

Not Satisfied: Complete 5 courses.

- Courses: 5.00 required, 0.00 completed, 5.00 needed

Courses Available

**Additional Technical Electives**

Not Satisfied: Complete 8 units in consultation with advisor.

- Units: 8.00 required, 0.00 completed, 8.00 needed
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

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Major Units

Not Satisfied: A minimum of 36 units must be completed in the major.

- **Units:** 36.00 required, 0.00 completed, 36.00 needed

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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

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Major Upper Division

Not Satisfied: A minimum of 18 units of upper-division major coursework must be completed.

- **Units:** 18.00 required, 0.00 completed, 18.00 needed

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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.

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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.