

# Biomedical Engineering Catalog 2017

<b>Fall</b> 16 hours	<b>Math 141 or 147 (4) FA, SP, SU</b> Prereq- Math 130 or Math ACT 28 or Math SAT 630	<b>EF 151 or 157 (4) FA, SP</b> Coreq- Math 141 or 147 and EF 105	<b>EF 105 (1) FA, SP</b> Coreq- EF 151 or 157	<b>English 101 or 118 (3) FA,SP,SU</b>	<b>Chem 120 or 128 (4) FA, SP, SU</b> Math 130	
<b>Spring</b> 17 hours	<b>Math 142 or 148 (4) FA, SP, SU</b> Prereq- Math 141 or 147	<b>EF 152 or 158 (4) FA, SP</b> Prereq- EF 151 or 157 Coreq- Math 142 or 148	<b>ME 202 (2) FA, SP, SU</b> Coreq- EF 152 or 158 and Math 142 or 148	<b>English 102 (3) FA, SP, SU</b> Prereq- English 101 or 118	<b>Chem 130 or 138 (4) FA, SP, SU</b> Prereq- Chem 120 or 128	
<b>Fall</b> 16 hours	<b>Math 231 or 237 (3) FA, SP, SU</b> Prereq- Math 142 or 148	<b>ME 231 (3) FA, SP, SU</b> Prereq- EF 152 or 158 and ME 202 with C or better	<b>Stats 251 (3) FA, SP, SU</b> Prereq- Math 142 or 148	<b>Math 200 (2) FA, SP</b> Prereq- Math 142 or 148	<b>BCMB 230 (5) FA, SP, SU</b> Prereq- Chem 110 or 130	
<b>Spring</b> 16 hours	<b>Math 241 or 247 (4) FA, SP, SU</b> Prereq- Math 142 or 148	<b>Physics 231 (3) FA, SP,SU</b> Coreq- Math 142 or 148	<b>ME 321 (3) FA, SP, SU</b> Prereq- ME 202 with C and Math 142 or 148	<b>MSE 201 or 207 (3) FA, SP, SU</b> Prereq- Chem 120 or 128	<b>BME 201 (1) SP</b> Prereq- EF152/158 with C or higher	<b>EF 230 (2) FA, SP</b> Prereq- EF 105 or CS 102 Co-req- EF152/158 or Phy136
<b>Fall</b> 15 hours	<b>BME 363 or 367 (3) FA, SP, SU</b> Prereq- EF 230; Math 231/237 and ME 231 with grades of C or better BME 201	<b>AE 341/347 (3) FA, SP, SU</b> Prereq- ME 231 with a grade C of C or better and Math 241 or 247	<b>BME 474 (3) FA</b> Prereq- MSE 201	<b>ECE 301 (3) FA, SP, M</b> Prereq- Math 231 or 237	<b>Gen Ed (3) FA, SP, SU</b> Arts & Humanities	
<b>Spring</b> 16 hours	<b>BME 315 (3) SP</b> Prereq- EF 230 and BME 363 or ME 363, BME 201	<b>BME 345 (3) FA, SP, SU</b> Prereq- AE 341/347 Coreq-BME 363 & ECE 301	<b>BME 409 (3) SP</b> Prereq- BCMB 230 and EF 230, BME 201	<b>Physics 232 (4) FA, SP, SU</b> Prereq- Physics 231 Coreq- Math 241 or 247	<b>Gen Ed (3) FA, SP, SU</b> Arts and Humanities	
<b>Fall</b> 18 hours	<b>BME 410 (2) FA (OC)</b> Coreq- BME 450 and Senior	<b>BME 430 (3) FA (WC)</b> Prereq- BME 315 & BME 345 and BME 409 & English 102	<b>BME 450 (3) FA</b> Coreqs-BME 430, 473/477 AE, BME, ME majors only	<b>BME 473 or 477 (3) FA</b> Prereq- ME 231 & BCMB 230 & EF 230 and BME 201	<b>Econ 201 or 207 (4) FA, SP, SU</b> Social Science	<b>Gen Ed (3) FA, SP, SU</b> Social Science
<b>Spring</b> 15 hours	<b>Gen Ed (3) FA, SP, SU</b> Cultures & Civilizations	<b>Gen Ed (3) FA, SP, SU</b> Cultures and Civilizations	<b>BME 460 (3) SP</b> Prereq- BME 450 AE, BME, ME majors only	<b>BME Elective (3) FA, SP, SU</b>	<b>Technical Elective (3) FA, SP, SU</b>	

**Technical Elective-** Must be preapproved by departmental advisor.

**Biomedical Engineering Elective-** Restricted to any 300-500 biomedical engineering course not required for the degree or Chemistry 260 or 268 (formerly 350/358) or 360 or 368.

### Full Status Progression

A lower-division student may apply for progression to upper division after completing EF 152/158, CHEM 120/128 , MATH 231 , ME 202, ME 231, ME 321 and BME 201 with a grade of C or better in each, and an overall GPA of at least 2.4. Students who have not satisfied the requirements for full status will be dropped from departmental class rolls in upper division courses.

### Provisional Status Progression

Students who have completed EF 152/158, CHEM 120/128 , MATH 231 , ME 202, ME 231 ,ME 321 , and BME 201 with a grade of C or better and have an overall GPA between 2.0 and 2.4 may apply for provisional status. The granting of provisional status is based on the availability of space in departmental programs after full status students have been accommodated. Provisional status students are required to demonstrate their ability to perform satisfactorily in upper-division by attaining a minimum GPA of 2.0 in the first 12 hours of 300-level required engineering courses. Award of upper-division full status is dependent upon this performance. Students with an overall GPA less than 2.0 will not be admitted to upper-division. Students who have not progressed to upper-division will be dropped from departmental class rolls.

### Transfer Students

Students transferring more than 26 hours from another institution are considered transfer students. Transfer students must meet the same criteria as non-transfer students, using transfer grades for acceptable substitutions. Transfer courses with grades below a C will not be accepted to fulfill any degree requirements.

### Departmental Academic Standing

The faculty of the Department of Mechanical, Aerospace and Biomedical Engineering expect all students who enter to make progress toward graduation. To graduate from the department, a student must earn a minimum grade point average of 2.0 in all departmental courses counted toward the degree. Students not meeting the required departmental GPA may be dropped from their major. In addition, the University Academic Good Standing Policies apply to all students.

### BME Graduation Requirements

A minimum GPA of 2.0 in all departmental courses counted toward the degree taken at the University of Tennessee, Knoxville, is required for graduation. No more than two departmental courses in which a C- or lower is the highest grade earned may be counted toward graduation. This is in addition to the university's graduation requirements.

Students also have opportunities for an Honors Concentration and/or a five year BS/MS program. See the Undergraduate Catalog for details and requirements.

### UTRACK Milestones:

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6 through 8
Math 130 or higher or one SS or one AH or one CC	Math 130 or higher	EF 151/157 or Physics 135/137	EF 152/158 or Physics 136/138	ME 202 or CS 102 or MSE 201 or CBE 201	No Milestones