### Biomedical Engineering Catalog 2011

#### Fall
**16 hours**
- **Math 141 or 147 (4) FA, SP, SU**
  - Prereq: Math 130 or Math ACT 28 or Math SAT 680
- **EF 151 or 157 (4) FA, SP**
  - Coreq: Math 141 or 147 and EF 105
- **EF 105 (1) FA, SP**
  - Coreq: EF 151 or 157
- **English 101 or 118 (3) FA, SP, SU**
- **Chem 120 or 128 (4) FA, SP, SU**
  - Prereq: Math 130 or Math ACT 28
  - Coreq: Math 141 or 147 and EF 105 or English 101 or 118

#### Spring
**17 hours**
- **Math 142 or 148 (4) FA, SP, SU**
  - Prereq: Math 141 or 147
- **EF 152 or 158 (4) FA, SP**
- **ME 202 (2) FA, SP, SU**
  - Coreq: EF 151 or 157
- **English 102 (3) FA, SP, SU**
- **Chem 130 or 138 (4) FA, SP, SU**
  - Prereq: EF 152 or 158
  - Coreq: Math 142 or 148

#### Fall
**17 hours**
- **Math 241 or 247 (4) FA, SP, SU**
  - Prereq: Math 142 or 148
- **ME 231 (3) FA, SP, SU**
  - Coreq: EF 152 or 158 and ME 202
- **Stat 251 (3) FA, SP, SU**
  - Coreq: Math 142 or 148
- **Physics 231 (3) FA, SP, SU**
  - Coreq: EF 152 or 158
- **BME 271 (1) FA**
  - Gen Ed (3) FA, SP, SU

#### Spring
**16 hours**
- **Math 200 (1) FA, SP, SU**
  - Prereq: Math 142 or 148
- **ME 321 (3) FA, SP, SU**
  - Coreq: EF 152 or 158
- **Physics 232 (4) FA, SP, SU**
  - Prereq: EF 152 or 158
- **BCMB 230 (5) FA, SP, SU**
  - Prereq: Math 142 or 148

#### Fall
**17 hours**
- **ME 331 (3) FA, SP, SU**
  - Coreq: Math 241 or 247
- **AE 341 (3) FA, SP, SU**
  - Prereq: ME 231 and Math 241 or 247
- **MSE 201 (3) FA, SP, SU**
  - Prereq: Chem 120 or 128
- **ECE 300 (5) FA, SP, SU**
  - Prereq: Consent of Dept.
- **BME 363 (3) FA, SP, SU**
  - Prereq: ME 231 and Math 231

#### Spring
**13 hours**
- **Econ 201 or 207 (4) FA, SP, SU**
  - Social Science
- **BME 345 (3) FA, SP, SU**
  - Prereq: AE 341 & ECE 300
  - Coreq: BME 363
- **BME 351 (3) FA, SP, SU**
  - Prereq: BME 363 or ME 363
- **Gen Ed (3) FA, SP, SU**
  - Arts & Humanities

#### Fall
**16 hours**
- **BME 410 (2) FA (OC)**
  - Coreq: BME 455 and Senior
- **BME 430 (3) FA (WC)**
  - Prereq: BME 345 & BME 315
- **BME 455 (2) FA**
  - Coreq: BME 430
- **Dept. Elective (3) FA, SP, SU**
  - Any 300 level or above in AE, BME, or ME
- **Technical Elective (3) FA, SP, SU**
  - Petition required in advance
- **Gen Ed (3) FA, SP, SU**
  - Arts and Humanities

#### Spring
**16 hours**
- **BME 473 (3) SP**
  - Prereq: ME 321
- **Gen Ed (3) FA, SP, SU**
  - Cultures and Civilizations
- **BME 469 (3) SP**
  - Prereq: BME 455
- **Dept. Elective (3) FA, SP, SU**
  - Any 300 level or above in AE, BME, or ME
- **Gen Ed (3) FA, SP, SU**
  - Social Science
- **EF 402 (1) FA, SP**
  - Senior

### Progression
The first two years of the curriculum are considered to be lower-division and the two remaining years upper-division. Students must apply for progression to departmental upper division courses, which depends on academic performance. Factors considered include overall grade point average, performance in selected lower division courses, and evidence of orderly progression through the prescribed curriculum.

#### Full Status
A lower-division student may apply for progression to upper division after completing CHEM 120, ME 202, MATH 231, ME 231, and ME 321, and PHYS 231, with a grade of C or better in each, and an overall GPA of at least 2.4.

#### Provisional Status
Students who have completed CHEM 120, ME 202, MATH 231, ME 231, and ME 321, and PHYS 231 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 on 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.

#### Departmental Academic Standing
The Department of Mechanical, Aerospace and Biomedical Engineering expects all students who enter to make progress toward graduation. To graduate from the department, a student must earn a minimum cumulative departmental grade point average of 2.0. Students not meeting the required departmental GPA may be dropped from their major in the department.

#### Graduation Requirements
A minimum cumulative GPA of 2.0 in all departmental courses 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.