Mechanical Engineering Catalog 2013

Fall 16 hours
Math 141 or 147 (4) FA, SP
Prereq: Math 130 or Math ACT 28 or Math SAT 630
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
Math 130

Spring 16 hours
Math 142 or 148 (4) FA, SP, SU
Prereq: Math 141 or 147
EF 152 or 158 (4) FA, SP, SU
Prereq: EF 151 or 157
Coreq: Math 142 or 148
ME 202 (2) FA, SP, SU
Prereq: EF 152 or 158 and Math 142 or 148
English 102 (3) FA, SP, SU
Prereq: English 101 or 118
Gen Ed (3) FA, SP, SU
Cultures & Civilizations

Fall 16 hours
Math 241 or 247 (4) FA, SP, SU
Prereq: Math 142 or 148
ME 231 (3) FA, SP, SU
Prereq: EF 152 or 158 and ME 202
EF 230 (2) FA, SP
Gen Ed (3) FA, SP, SU
Cultures & Civilizations
Econ 201 or 207 (4) FA, SP, SU
Social Science

Spring 18 hours
Math 231 (3) FA, SP, SU
Prereq: Math 142 or 148
Math 251 or 257 (3) FA, SP, SU
Prereq: Math 142 or 148
Physics 231 (3) FA, SP, SU
Prereq: Math 142 or 148
ME 321 (3) FA, SP, SU
Prereq: ME 202 and Math 142 or 148
MSE 201 (3) FA, SP, SU
Prereq: Chem 120 or 126
Gen Ed (3) FA, SP, SU
Arts & Humanities

Fall 15 hours
ME 331 (3) FA, SP, SU
Coreq: Math 241 or 247
AE 341 or 347 (3) FA, SP, SU
Prereq: ME 231 and Math 241 or 247
ME 366 (3) FA, SP
Coreq: MSE 201 and ME 321
ECE 301 (3) FA, SP, SU
Prereq: Math 231
ME 391 or 397 (3) FA, SP, SU
Prereq: EF 152 or 158 and Math 231 and 251 and EF 230

Spring 15 hours
ME 466 (3) FA, SP
Prereq: ME 321 and MSE 201
ME 363 or 367 (3) FA, SP, SU
Prereq: ME 231 and Math 231
ME 345 (3) FA, SP, SU
Prereq: AE 341/347 & ECE 301
Coreq: ME 363/367
ME 344 (3) FA, SP, SU
Prereq: ME 331 and 391 and AE 341 or 347
Dept. Elective (3) FA, SP
Any 300 level or above in AE, BME, or ME not already required.

Fall 16 hours
ME 475 or 477 (3) FA, SP
Prereq: ME 344
Technical Elective (3) FA, SP, SU
Petition required in advance with advisor and dept. head.
ME 365 (3) FA/SU or 463 (3) SP
Prereq: ME 231 and ME 365/367
Coreq: ME 363/367
ME 410 (2) (QC) FA
Coreq: ME 450 and Senior
ME 455 (3) FA
Prereq: ME 363 or 367
Coreq: ME 466 or 475/477
Gen Ed (3) FA, SP, SU
Arts and Humanities

Spring 16 hours
ME 449 (3) WC FA, SP
Prereq: ME 321, 344 & 345 and English 102 or 118
Dept. Elective (3) FA, SP
Any 300 level or above in AE, BME, or ME not already required.
Dept. Elective (3) FA, SP
Any 300 level or above in AE, BME, or ME not already required.
EF 402 (1) FA, SP
Minimum student level senior
ME 460 (2) SP
Prereq: ME 450
Gen Ed (3) FA, SP, SU
Social Science

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, 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 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.

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.
In addition, the University Academic Good Standing Policies apply to all students.

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.

U-Track Milestones 2013:

Term 1
Math 130 or higher or one SS or one AH or one CC

Term 2
Math 130 or higher

Term 3
EF 151/157 or Physics 135/137

Term 4
EF 152/158 or Physics 136/138

Term 5
ME 202 or CS 102 or MSE 201 or CBE 201

Term 6 through 8
No Milestones