

Mechanical Engineering Catalog 2022

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| Fall 16 hours | Math 132 or 141 or 147 (3-4) (QR) FA,SP,SU | EF 142 or 151 or 157 (4) (EI) FA, SP | EF 105 (1) FA, SP | Chem 122(3) and 123(1) or 128 (4) (NS) FA, SP, SU | English 101/118 or 198 or 131 (3) FA, SP, SU |
| | Prereq- Math 141 is ACT Math 28 or SAT Math 660 Prereq-Math 132 is Math 131 | Coreq- Math 132/141/147 or higher and EF 105 or CS 101 or CS 102 | Coreq- EF 151 or 157 | Prereq-Math 119; recommended background in Math 131 | 101 Regular; 118 Honors; 198 Chancellor Honors 131 English as Second Language |
| Spring 16 hours | Math 142 or 148 (4) (QR) FA, SP, SU | EF 152 or 158 (4) (NS and EI) FA, SP, SU | ME 202 (2) FA, SP, SU | Vol Core (3) FA, SP, SU | English 102 or 290 or 298 or 132 (3) FA, SP, SU |
| | Prereq- Math 132 or 141 or 147 | Prereq-EF 142/151/157 with C or higher Coreq- Math 142 or 148 | Coreq- EF 152 or 158 and Math 142 or 148 | Global Citizenship United States (GCUS) | 102 Prereq 101 or 118; 290 Prereq AP 101 credit 298 Prereq Chancellor Honors only & 198; 132 Prereq 131 ESL |
| Fall 15 hours | Math 241 or 247 (4) FA, SP, SU | ME 231 (3) FA, SP, SU | EF 230 (2) FA, SP | ME 210 (2) FA, SP | ECON 201 or 207 (4) FA, SP, SU |
| | Prereq- Math 142 or 148 | Prereq- EF 152/158 and ME 202 with grades of C or better | Prereq- EF 105 or CS 102 Coreq- EF 152/158 | AE, BME, or ME major. Sophomore, Junior or Senior standing | Vol Core Social Science (SS) |
| Spring 18 hours | Math 231 or 237 (3) FA, SP, SU | Math 251 or 257 (3) FA, SP, SU | Physics 231 (3) FA, SP, SU | ME 321 (3) FA, SP, SU | MSE 201 or 207 (3) FA, SP, SU |
| | Prereq- Math 142 or 148 | Prereq- Math 142 or 148 | Prereq- Phys 135 or EF 151 and 152 Coreq- Math 142 or 148 | Prereq- ME 202 with C or better and Math 142/148 with C or better | Prereq- Chem 122 and 123 or 128 |
| Fall 15 hours | ME 331 (3) FA, SP, SU | AE 341 or 347 (3) FA, SP, SU | ME 366 (3) FA, SP, SU | ECE 301 (3) FA, SP | ME 391 or 397 (3) FA, SP, SU |
| | Coreq- Math 241 or 247 | Prereq- ME 231 with grade C or better and Math 241 or 247 with grade of C or better | Prereq- ME 321 with C or better and MSE 201 | Prereq- ME 231 or 237 with C or better | Prereq- EF 230; Math 251/257, and Math 241/247, and Math 231 with grade C or better in all prereq courses |
| Spring 15 hours | ME 466 (3) FA, SP | ME 363 or 367 (3) FA, SP, SU | Dept. Elective (3) FA, SP, SU | ME 344 (3) FA, SP, SU | ME 345 (3) (EI) FA, SP, SU |
| | Prereq- ME 321 and MSE 201 Coreq- ME 366 | Prereq- ME 231 and Math 231 with grades of C or better | 300 level or above AE/BME/ME not already required. | Prereq- ME 331 and 391/397 and AE 341/347 | Prereq- ME 321 Coreq- AE 341/347 or BME 341/347, and ME 363/367 or BME 363/367, and ECE 301 |
| Fall 18 hours | ME 475 or 477 (3) FA, SP, SU | Technical Elective (3) FA, SP, SU | ME 365 (3) FA/SP/SU or 463 (3) SP | Vol Core (3) FA, SP, SU | ME 450 (3) FA only |
| | Prereq- ME 344 | Petition required in advance with advisor and dept. head. | ME 365 Prereq-ME 231 with grade of C or better ME 463 Prereq- ME 363 | Global Citizenship International (GCI) | Prereq- ME 363 or 367 and 366 Coreq- ME 466 or 475 |
| Spring 15-18 hrs. | Vol Core (3) FA, SP, SU | Dept. Elective (3) FA, SP | Dept. Elective (3) FA, SP | ME 460 (3) (AOC) SP only | ME 449 (3) (WC) FA, SP |
| | Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS | 300 level or above AE, BME, ME not already required. | Any 300 level or above in AE, BME, or ME not already required. | Prereq- ME 450 | Prereq- ME 321, 344 & 345/347 and English 102, 132, 290, or 298 |

Full Status Progression

A lower-division student may apply for progression to upper division after completing EF 152/158, CHEM 122/123 or 128, MATH 231, ME 202, ME 231 and ME 321 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 122/123 or 128, Math 231, ME 202, ME 231, ME 321 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 in upper division courses.

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.

ME 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.