Mechanical Engineering Catalog 2022

Fall
16 hours
Math 132 or 141 or 147 (3-4) (QR) FA,SP,SU
Preq: Math 141 is ACT Math 28 or SAT Math 660
Preq: Math 132 is Math 131
EF 142 or 151 or 157 (4) (EI) FA, SP
Preq: Math 132/141/147 or higher and EF 105 or CS 101 or CS 102
EF 105 (1) FA, SP
Preq: EF 151 or 157
Chem 122(3) and 123(1) or 124(4) (NS) FA, SP, SU
Preq: Math 119; recommended background in Math 131
English 101/118 or 198 or 131 (3) FA, SP, SU
101 Regular, 118 Honors, 198 Chancellor Honors
131 English as Second Language

Spring
16 hours
Math 142 or 148 (4) (QR) FA, SP, SU
Preq: Math 132 or 141 or 147
EF 152 or 158 (4) (NS and EI) FA, SP, SU
Preq: EF 142/151/157 with C or higher
ME 202 (2) FA, SP, SU
Preq: EF 152 or 158 and Math 142 or 148
Vol Core (3) FA, SP, SU
Global Citizenship United States (GCUS)
English 102 or 290 or 298 or 132 (3) FA, SP, SU
102 Preq: 101 or 118; 290 Preq: AP 101 credit
298 Preq: Chancellor Honors only & 198: 132 Preq: 131 ESL

Fall
15 hours
Math 241 or 247 (4) FA, SP, SU
Preq: Math 142 or 148
ME 231 (3) FA, SP, SU
Preq: EF 152/158 and ME 202 with grades of C or better
EF 230 (2) FA, SP
Preq: EF 105 or CS 102
ME 210 (2) FA, SP
AEC, BME, or ME major; Sophomore, Junior or Senior standing
ECON 201 or 207 (4) FA, SP, SU
Vol Core Social Science (SS)

Spring
18 hours
Math 231 or 237 (3) FA, SP, SU
Preq: Math 142 or 148
Math 251 or 257 (3) FA, SP, SU
Preq: Math 142 or 148
Physics 231 (3) FA, SP, SU
Preq: Phys 135 or EF 151 and 152
ME 321 (3) FA, SP, SU
Preq: ME 202 with C or better and Math 142/148 with C or better
Vol Core (3) FA, SP, SU
Arts and Humanities (AH)

Fall
15 hours
ME 331 (3) FA, SP, SU
Preq: Math 241 or 247
AE 341 or 347 (3) FA, SP, SU
Preq: ME 231 with grade C or better and Math 241 or 247 with grade of C or better
ME 366 (3) FA, SP, SU
Preq: ME 321 with C or better and MSE 201
ECE 301 (3) FA, SP
Preq: ME 231 or 237 with C or better
ME 391 or 397 (3) FA, SP, SU
Preq: 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
Preq: ME 321 and MSE 201
Coreq: ME 366
ME 363 or 367 (3) FA, SP, SU
Preq: ME 231 or 237 with grades of C or better
Dept. Elective (3) FA, SP, SU
Preq: ME 321 or 391/397 and AE 341/347
ME 344 (3) FA, SP, SU
Preq: ME 331 and 391/397
ME 345 (3) (EI) FA, SP, SU
Preq: 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
Preq: ME 344
Technical Elective (3) FA, SP, SU
Petition required in advance with advisor and dept. head.
ME 365 (3) FA/SP/SU or 463 (3) SP
ME 365 Preq: ME 231 with grade of C or better
ME 463 Preq: ME 363
Vol Core (3) FA, SP, SU
Global Citizenship International (GCI)
ME 450 (3) (OC) FA only
Preq: ME 363 and 366
Coreq: ME 466 or 475
Vol Core (3) FA, SP, SU
Expanded Perspectives: choose from AH, AAH, GCUS, GCI, or SS

Spring
15 hours
Vol Core (3) FA, SP, SU
Expanded Perspectives: choose from AH, AAH, GCUS, GCI, or SS
Dept. Elective (3) FA, SP
Any 300 level or above in AE, BME, ME not already required.
ME 460 (3) (AOC) SP only
Preq: ME 450
ME 449 (3) (WC) FA, SP
Preq: ME 321, 344 & 345/347 and English 102, 132, 290, or 298

Full-Degree 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 rosters 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 that 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.