

# Mechanical Engineering Catalog 2024

Fall 16 hours	<b>Math 132 or 141 or 147 (3-4) (QR) FA,SP,SU</b> Math 132 Prereq- Math 131 Math 141 Prereq- ACT Math 28 or SAT Math 660	<b>EF 142 or 151 or 157 (4) (EI) FA, SP</b> EF 142 Prereq- EF 141 with C- or better and Math 131 EF 142 Coreq- Math 132 EF 151 Coreq- 141/147 or higher and EF 105 or COSC 101 or CS 102	<b>EF 105 (1) FA, SP</b> Coreq- EF 151 or 157	<b>Chem 122(3) and 123(1) or 128 (4) (NS) FA, SP, SU</b> Prereq-Math 119; recommended background in Math 131	<b>English 101 or 131 (3) FA, SP, SU</b> 101 Standard; 131 English as Second Language
Spring 16 hours	<b>Math 142 or 148 (4) (QR) FA, SP, SU</b> Prereq- Math 132 or 141 or 147	<b>EF 152 or 158 (4) (NS and EI) FA, SP, SU</b> Prereq-EF 142/151/157 with C or higher Coreq- Math 142 or 148	<b>ME 202 (2) FA, SP, SU</b> Coreq- EF 152 or 158 and Math 142 or 148	<b>Vol Core (3) FA, SP, SU</b> <b>Global Citizenship United States (GCUS)</b>	<b>English 102 or 112 or 298 or 132 (3) FA, SP, SU</b> 102 Prereq 101; 112 Prereq is AP 101 and Test Scores; 298 Prereq University Honors only; 132 Prereq 131 ESL
Fall 15 hours	<b>Math 241 or 247 (4) FA, SP, SU</b> Prereq- Math 142 or 148	<b>ME 231 (3) FA, SP, SU</b> Prereq- EF 152/158 and ME 202 with grades of C or better	<b>EF 230 or 237 (2) FA, SP</b> Prereq- EF 105 or CS 102 Coreq- EF 152/158	<b>ME 210 (2) FA, SP</b> AE, BME, or ME major. Sophomore, Junior or Senior standing	<b>ECON 201 or 207 (4) FA, SP, SU</b> <b>Vol Core Social Science (SS)</b>
Spring 18 hours	<b>Math 231 or 237 (3) FA, SP, SU</b> Prereq- Math 142 or 148	<b>Math 251 or 257 (3) FA, SP, SU</b> Prereq- Math 142 or 148	<b>Physics 231 (3) FA, SP, SU</b> Prereq- Phys 135 or EF 151 and 152 Coreq- Math 142 or 148	<b>ME 321 (3) FA, SP, SU</b> Prereq- ME 202 with C or better and Math 142/148 with C or better	<b>MSE 201 or 207 (3) FA, SP, SU</b> Prereq- Chem 122 and 123 or 128
Fall 15 hours	<b>ME 331 (3) FA, SP, SU</b> Coreq- Math 241 or 247	<b>AE 341 or 347 (3) FA, SP, SU</b> Prereq- ME 231 with grade C or better and Math 241 or 247 with grade of C or better	<b>ME 366 (3) FA, SP, SU</b> Prereq- ME 321 with C or better	<b>ECE 301 (3) FA, SP</b> Prereq- Math 231 or 237 with C or better	<b>ME 391 or 397 (3) FA, SP, SU</b> 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	<b>ME 466 (3) FA, SP</b> Prereq- ME 321 and MSE 201 Coreq- ME 366	<b>ME 363 or 367 (3) FA, SP, SU</b> Prereq- ME 231 and Math 231/237 with grades of C or better	<b>Dept. Elective (3) FA, SP, SU</b> 300 level or above AE/BME/ME not already required.	<b>ME 344 (3) FA, SP, SU</b> Prereq- ME 331 and 391/397 and AE 341/347	<b>ME 345 (3) (EI) FA, SP, SU</b> 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	<b>ME 475 or 477 (3) FA, SP, SU</b> Prereq- ME 344	<b>Technical Elective (3) FA, SP, SU</b> Petition required in advance with advisor and dept. head.	<b>ME 365 (3) FA/SP/SU or 463 (3) SP</b> ME 365 Prereq-ME 231 with grade of C or better ME 463 Prereq- ME 363	<b>Vol Core (3) FA, SP, SU</b> <b>Global Citizenship International (GCI)</b>	<b>ME 450 (3) FA only</b> Prereq- ME 363 or 367 and 366 Coreq- ME 466 or 475
					<b>Vol Core (3) FA, SP, SU</b> Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS
Spring 15-18 hrs.	<b>Vol Core (3) FA, SP, SU</b> Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS	<b>Dept. Elective (3) FA, SP</b> 300 level or above AE, BME, ME not already required.	<b>Dept. Elective (3) FA, SP</b> Any 300 level or above in AE, BME, or ME not already required.	<b>ME 460 (3) (AOC) SP only</b> Prereq- ME 450	<b>ME 449 (3) (WC) FA, SP</b> Prereq- ME 321, 344 & 345/347 and English 102, 112, 132, 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 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.