

## Aerospace Engineering Catalog 2020

<b>Fall</b> 16 hours	<b>Math 141 or 147 (4) FA, SP, SU</b> Prereq- Math ACT 28 or Math SAT 660	<b>EF 151 or 157 (4) FA, SP</b> Coreq- Math 132/141/147 and EF 105 or CS 101 or CS 102	<b>EF 105 (1) FA, SP</b> Coreq- EF 151 or 157	<b>Chem 120 or 128 (4) FA, SP, SU</b> Prereq-Math 119; recommended background in Math 131	<b>English 101/118 or 198 or 131 (3) FA, SP, SU</b> 101 Regular; 118 Honors; 198 Chancellor Honors only; 131 English as Second Language		
<b>Spring</b> 18 hours	<b>Math 142 or 148 (4) FA, SP, SU</b> Prereq- Math 132 or 141 or 147	<b>Math 200 (2) FA, SP</b>	<b>EF 152 or 158 (4) FA, SP, SU</b> Prereq-EF 151/157 with C 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>Gen Ed (3) FA, SP, SU</b> Social Science	<b>English 102 or 290 or 298 or 132 (3) FA, SP, SU</b> 102 Prereq 101 or 118; 290 Prereq AP 101 credit 298 Prereq Chancellor Honors only & 198; 132 Prereq 131 ESL	
<b>Fall</b> 19 hours	<b>Math 241 or 247 (4) FA, SP, SU</b> Prereq- Math 142 or 148	<b>AE 201 (1) FA</b> Restricted to engineering majors.	<b>AE 210 (2) (OC)FA</b> AE or ME majors. Sophomore or Junior or Senior	<b>ME 231 (3) FA, SP, SU</b> Prereq- EF 152 or 158 AND ME 202 with C or better	<b>Physics 231 (3) FA, SP, SU</b> Prereq- Phys135 or EF 151 and 152 Coreq- Math 142 or 148	<b>Gen Ed (3) FA, SP, SU</b> Arts and Humanities	<b>Gen Ed (3) FA, SP SU</b> Cultures & Civilizations
<b>Spring</b> 17 hours	<b>Math 231 or 237 (3) FA, SP, SU</b> Prereq- Math 142 or 148	<b>EF 230 (2) FA, SP</b> Prereq- EF 105 or CS 102 Coreq- EF152/158	<b>ME 321 (3) FA, SP, SU</b> Prereq- ME 202 with C or better AND Math 142/148 with C or better	<b>Gen Ed (3) FA, SP, SU</b> Arts & Humanities	<b>Econ 201/207 (4)FA,SP,SU</b> Social Science		
<b>Fall</b> 16 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 C and Math 241 or 247 with C or better	<b>AE 370 or 377 (4) FA</b> Coreq- AE 341	<b>ECE 301 (3) FA, SP, M</b> Prereq- Math 231 or 237 with C or better	<b>ME 391 or 397 (3) FA, SP, SU</b> Prereq- Math 231 or 237; Math 241 or 247 and Math 200,251/257 and EF 230 ALL with grades of C or better		
<b>Spring</b> 15 hours	<b>AE 363 (3) SP</b> Prereq- ME 321	<b>ME 363 or 367 (3) FA, SP, SU</b> Prereq- ME 231 and Math 231 with grades of C or better	<b>AE 351 (3) SP</b> Prereq- AE 341/347 and ME 331	<b>ME 344 (3) FA, SP, SU</b> Prereq- ME 331 and 391 or 397 and AE 341 or 347	<b>AE 345 (3) FA, SP, SU</b> Prereq- ME 321 Coreq- AE 341/347 & ME 363/367 and ECE 301		
<b>Fall</b> 15 hours	<b>AE 422 (3) FA</b> Prereq- AE 351 and 370 or 377	<b>AE 425 (3) FA</b> Prereq- AE 351	<b>AE 424 (3) FA</b> Prereq- AE 351 Coreq- ME 344	<b>AE 450 (3) FA</b> Prereq- AE 351, AE 370/377, AE 363 Coreq- ME 344, AE/BME/ME majors	<b>Departmental Elective (3)</b> Choose from approved courses		
<b>Spring</b> 15 hours	<b>AE 449 (3) SP (WC)</b> Prereq- AE 345, 351, and 425 English 102, 132, 290 or 298	<b>AE 460 (3) SP</b> Prereq- AE 422, 450, 425 AE, BME, ME majors only	<b>Gen Ed (3) FA, SP, SU</b> Cultures and Civilizations	<b>Departmental Elective (3)</b> Choose from approved courses	<b>Departmental Elective (3)</b> Choose from approved courses		

**Departmental Electives Choose from:** Any 400 level AE course not otherwise required for the major, ME 315, 365, 366, 405, 451, 463, 466, 470, 472, 475 or 477, 476, 480.  
Other courses require prior approval by the department.

### Full Status Progression

A lower-division student may apply for progression to upper division after completing EF 152/158 CHEM 120 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 120 or 128 , MATH 231 , ME 202, ME 231 and ME 321 with a grades 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.

### 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.

### AE 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.