Aerospace Engineering Catalog 2018

**Fall**
16 hours
Math 141 or 147 (4) FA, SP, SU  
Prereq- Math 130 or Math ACT 28  
Coreq- Math 141 or 147 and EF 105  

EF 151 or 157 (4) FA, SP  
Coreq- Math 151 or 157  

EF 105 (1) FA, SP  
Coreq- EF 151 or 157  

Chem 120 or 128 (4) FA, SP, SU  
Prereq- Math 119; recommended background Math 130  

English 101/118 or 198 or 131 (3) FA, SP, SU  
101 Regular; 118 Honors; 198 Chancellor Honors only; 131 English as Second Language

**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  
Coreq- EF 152 or 158 and Math 142 or 148  

Gen Ed (3) FA, SP, SU  
Social Science

English 102 or 290 or 298 or 132 (3) FA, SP, SU  
102 Prereq 101 or 118; 290 Prereq AP 101 credit  
298 Prereq Chancellor Honors only & 198; 132 Prereq 131 ESL

**Fall**
17 hours
Math 241 or 247 (4) FA, SP, SU  
Prereq- Math 142 or 148  

Math 200 (2) FA, SP  
Prereq- Math 142 or 148  

Math 231 (3) FA, SP, SU  
Prereq- EF 152 or 158 AND Math 202 with C or better  

Physics 231 (3) FA, SP, SU  
Coreq- Math 142 or 148  

Econ 201 or 207 (4) FA, SP, SU  
Social Science

AE 201 (1) FA  
Restricted to engineering majors.

**Spring**
17 hours
Math 231 or 237 (3) FA, SP, SU  
Prereq- Math 142 or 148  

MSE 201 or 207(3) FA,SP,SU  
Prereq- Chem 120 or 128  

EF 230 (2) FA, SP  
Prereq- EF 105 or CS 102  
Coreq- EF/152/158  

ME 321 (3) FA, SP, SU  
Prereq- ME 202 with C or better AND Math 142 or 148

Gen Ed (3) FA, SP, SU  
Arts & Humanities

Gen Ed (3) FA, SP, SU  
Arts and Humanities

**Fall**
16 hours
ME 331 (3) FA, SP, SU  
Coreq- Math 241 or 247  

AE 341 or 347 (3) FA, SP, SU  
Prereq- ME 231 with C and Math 241 or 247  

ME 370 or 377 (4) FA  
Coreq- AE 341  

ECE 301 (3) FA, SP, M  
Prereq- Math 231 or 237  

ME 391 or 397 (3) FA, SP, SU  
Prereq- Math 241 or 247 and Math 251 or 200 and EF 230

**Spring**
15 hours
AE 363 (3) SP  
Prereq- ME 321  

ME 363 or 367 (3) FA, SP, SU  
Prereq- ME 231 and Math 231 with grades of C or better  

AE 351 (3) SP  
Prereq- AE 341/347 and ME 331  

ME 344 (3) FA, SP, SU  
Prereq- ME 331 and 391 or 397 and AE 341 or 347

AE 345 (3) FA, SP, SU  
Prereq- ME 321  
Coreq- AE 341/347 & ME 363/367 and ECE 301

**Fall**
17 hours
AE 422 (3) FA  
Prereq- AE 351 and 370 or 377  

AE 425 (3) FA  
Prereq- AE 351  

AE 424 (3) FA  
Prereq- AE 351  
Coreq- AE 344  

AE 450 (3) FA  
Prereq- AE 351, AE 370/377, AE 363  
Coreq- ME 344, AE/BME/ME majors

AE 410 (2) FA (OC)  
Coreq- AE 450 and Senior  
Dept. Elective (3)  
ME courses below

**Spring**
15 hours
AE 449 (3) SP (WC)  
Prereq- AE 345, 351, and 425  

English 102, 132, 290 or 298

Gen Ed (3) FA, SP, SU  
Cultures and Civilizations

Gen Ed (3) FA, SP SU  
Cultures & Civilizations

AE 460 (3) SP  
Prereq- AE 422, 450, 425  
AE, BME, ME majors only

Departmental Elective (3)  
ME courses below

**Departmental Electives Choose from:** 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 120/128 , 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 upper division classes.

**Provisional Status Progression**
Students who have completed EF 152/158, CHEM 120/128 , MATH 231 , ME 202, ME 231 and 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 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 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.

**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.

**UTRACK Milestones:**

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
<th>Term 4</th>
<th>Term 5</th>
<th>Term 6 through 8</th>
</tr>
</thead>
</table>
| Math 130 or higher or one SS  
or one AH or one CC | Math 130 or higher | EF 151/157 or Physics 135/137 | EF 152/158 or Physics 136/138 | ME 202 or CS 102 or MSE 201  
or CBE 201 | No Milestones |