# Aerospace Engineering Catalog 2025

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Fall	Math 132 or 141 or 147 (3-4) (QR) FA,SP,SU	EF 142 or 151 or 157 (4) (EI)(NS) FA, SP	EF 105 (1) FA, SP	Chem 122(3) and 123(1) or 128 (4) (NS) FA, SP, SU	English 101 or 131 (3)(WC) FA, SP, SU		
16 hours	Math 132 Prereq- Math 131	EF 142 Prereq- EF 141 with C- or better and Math 131	Coreq- EF 152 or 158	Prereq-Math 119; recommended	101 Standard:		
	Math 141 Prereq- ACT Math 28 or SAT Math 660 or	EF 142 Coreq- Math 132		background in Math 131	131 English as Second Language		
	Math 130 C or better	EF 151 Corea- 132/141/147 or higher					
Spring	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 112 or 298 or 132 (3)(WC) FA, SP, SU		
16 hours	Prereq- Math 132 or 141 or 147	Prereq-EF 142/151/157 with C or higher	Coreq- EF 152 or 158 and	Expanded Perspectives- choose from	102 Prereq 101; 112 Prereq is AP 101 and Test Scores;		
		Coreq- Math 142 or 148 and EF 105 or COSC 101 or 102	Math 142 or 148	AH, AAH, GCUS, GCI, or SS	298 Prereq University Honors only; 132 Prereq 131 ESL		
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Fall	Math 241 or 247 (4) FA, SP, SU	AE 201 (1) FA	AE 210 (2) FA, SP	ME 231 (3) FA, SP, SU	Physics 231 (3) (NS) FA, SP, SU	Vol Core (3) FA, SP, SU	Vol Core (3) FA, SP, SU
19 hours	Prereq- Math 142 or 148	Restricted to engineering	AE or ME majors. Sophomore	Prereq- EF 152 or 158 AND	Prereq- Phys135/7 or EF 152	Arts and Humanities (AH)	Global Citizenship United States (GCUS)
		majors.	or Junior or Senior	ME 202 with C or better	Coreq- Math 142 or 148		
Spring	Math 231 or 237 (3) FA, SP, SU	EF 230 or 237 (2) FA, SP	ME 321 (3) FA, SP, SU	Vol Core (3) FA, SP, SU	ECON 201 or 207 (4) FA, SP, SU	Math 200 (2) FA, SP	
17 hours	Prereq- Math 142 or 148	Prereq- EF 105 or 142 or CS 101 or 102 or 111	Prereq- ME 202 with C or better	Expanded Perspectives- choose from	Vol Core - Social Science (SS)	Prereq- Math 142 or 148	
		Coreq- EF152/158 or PHYS 136/8	AND Math 142/148 with C or better	AH, AAH, GCUS, GCI, or SS			
Fall	ME 331 (3) FA, SP, SU	AE 341 or 347 (3) FA, SP, SU	AE 370 or 377 (4) FA, SP	ECE 301 (3) FA, SP	ME 391 or 397 (3) FA. SP. SU		
16 hours	Coreq- Math 241 or 247	Prereo- ME 231 with C or better and	Coreq- AE 341	Prereq- Math 231 or 237 with C	Prereo- Math 231/7: Math 241/7 and Math 200. or 251/7		
10110010	oolog manzero zer	Math 241 or 247 with C or better		or better	and EF 230/7 ALL with grades of C or better		
Spring	AE 363 (3) SP	ME 363 or 367 (3) FA, SP, SU	AE 351 (3) SP	ME 344 (3) FA, SP, SU	AE 345 (3) (EI) FA, SP, SU		
15 hours	Prereq- ME 321	Prereq- ME 231 and Math 231	Prereq- AE 341/347 and	Prereq- ME 331 and 391 or 397	Prereq- ME 321		
		with grades of C or better	ME 331	and AE 341 or 347	Coreq- AE 341/347 or BME 341/347, and ME 363/367 or BM	/IE 363/367, and ECE 301	
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Fall	AE 422 (3) FA	AE 425 (3) FA	AE 424 (3) FA	AE 450 (3) (OC) FA	Deptmental Elective (3)		
15 hours	Prereq- AE 351 and 370 or 377	Prereq- AE 351	Prereq- AE 351	Prereq- AE 351, AE 370/377, AE 363	Choose from approved courses		
			Coreq- ME 344	Coreq- AE 425, ME 344, AE/BME/ME majors			
Spring	AE 449 (3) (WC) SP	AE 460 (3) (AOC) SP	Vol Core (3) FA, SP, SU	Departmental Elective (3)	Departmental Elective (3)	-	
15 hours	Prereq- AE 345, 351, and 425	Prereq- AE 422, 450,	Global Citizenship International (GCI)	Choose from approved courses	Choose from approved courses		
	Prereq- AE 345, 351, and 425 English 102, 112, 132, or 298	AE. BME. ME majors only	Giobal Gitzenship International (GCI)	Choose from approved codfses	choose irom approved cod/ses		
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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

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A lower-division student may apply for progression to upper division after completing EF 152/158, CHEM 122 and 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 24. Students who have not satisfied the requirements for full status will be dropped from departmental class rolls in upper division courses.

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Subdivision Level Comparison of the Comparison o

### 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.

Department A 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.

A minimum GPA of 2.0 in all departmental courses counted toward the degree taken at the University of Tennessee, Knowille, 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.

Volunteer Core courses highlighted in light orange.