	Nuclear Engineering Catalog 2025					
Fall	Math 132 or 141 or 147 (3-4) (QR) FA,SP,SU	Chem 122(3) and 123(1) or 128 (4) (NS) FA, SP, SU	EF 142 or 151 or 157 (4) (EI) FA, SP	English 101 or 131 (3) FA, SP, SU		
4-15 hours	Math 132 Prereq- Math 131	Prereq-Math 119; recommended	EF 142 Prereq- EF 141 with C- or better and Math 131	101 Standard;		
	Math 141 Prereq- ACT Math 28 or SAT Math 660	background in Math 131	EF 142 Coreq- Math 132 EF 151 Coreq- 141/147 or higher and EECS majors COSC 101/102	131 English as Second Language		
Spring	Math 142 or 148 (4) (QR) FA, SP, SU	COSC 111 (3) (QR) FA, SP	EF 152 or 158 (4) (NS and EI) FA, SP, SU	EF 105 (1) FA, SP	English 102 or 112 or 298 or 132 (3) FA, SP, SU	NE 101 (1) SP
16 hours	Prereq- Math 132 or 141 or 147	355 11 (4)(21)(11)	Prereq-EF 142/151/157 with C or higher Coreq-Math 142 or 148 and EF 105 or COSC 101 or 102	Coreq- EF 152 or 158	102 Prereq 101; 112 Prereq is AP 101 and Test Scores; 298 Prereq University Honors only; 132 Prereq 131 ESL	
Fall 17 hours	Math 231 or 237 (3) FA, SP, SU Prereq- Math 142 or 148	NE 200 (2) FA	ME 202 (2) FA, SP, SU Coreq- EF 152 or 158 and Math 142 or 148	Physics 231 (3) FA, SP, SU Prereq- Phys 135 or EF 151 and 152 Coreq- Math 142 or 148	IE 200 or Stats 251 (3) FA, SP IE 200 Prereq Math 142/148 or (AET 200??) Stats 251 Prerq Math 142/148	ECON 201 or 207 (4) FA, \$ Vol Core Social Science (SS
Spring	Math 241 or 247 (4) FA, SP, SU	NE 233 (3) SP	NE 250 (3) SP	Physics 250 or 252 (4) FA, SP	ME 331 (3) FA, SP, SU	$\overline{}$
17 hours	Prereq- Math 142 or 148	Prereq-NE 200	Prereq- NE 200, Math 231 or 237 Coreq- Math 241 or 247	Prereq 250- PHYS 136 or 138 or 231 Prereq 252- PHYS 251 & Math 142/148 both C or better	Coreq- Math 241 or 247	
Fall	NE 342 or 347 (3) FA	NE 362 or 367 (3) FA	Physics 341 (3) FA	Vol Core (3) FA, SP, SU	Vol Core (3) FA, SP, SU	
15 hours	Prereq- Math 241 or 247; ME 331 with grade of C or better	Prereq- Math 231/237, 241/247, NE 250	Prereq- Physics 232 or 250	Global Citizenship United States (GCUS)	Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS	
Spring	NE 340 (3) SP	NE 351 or 357 (3) SP	NE 403 (4) SP (WC???)	NE 470 (3) FA, SP	Technical Elective *(3) FA, SP, SU	
16 hours	Prereq- ME 202 and ME 331	Prereq- NE 200 and NE 250	Preregs-ENGL 102, ENGL 112, ENGL 132, OR ENGL 298; and NE 233; NE 250	Prereq- NE 362 or 367	Petition required in advance	
			Coreq- NE 414 or NE 470; MATH 241 or MATH 247			
Fall	NE 360 (3) FA	NE 400 (1) FA, SP	NE 471 (2) (OC) FA	Nuclear Department Elective** (3) FA	Technical Elective *(3) FA, SP, SU	Vol Core (3) FA, SP, SU
15 hours	Prereq- NE 342 Coreq- NE 470	Minimum level Senior in Nuclear	Prereq-NE 414 or 470		Petition required in advance	Arts and Humanities (AH)
Spring	NE 472 (2) (AOC and EI) SP	Technical Elective *(3) FA, SP, SU	Technical Elective *(3) FA, SP, SU	Vol Core (3) FA, SP, SU	Vol Core (3) FA, SP, SU	
14 hours	Prereq- NE 471	Petition required in advance	Petition required in advance	Global Citizenship International (GCI)	Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS	

\*Technical Electives are selected from upper division mathematics, chemistry, physics and engineering courses and must be pre-approved by the department advisor. Courses in Nuclear Engineering other than 500, 502 and 598 may also be usured as terbricial electrics.

\*\* Nuclear Department Electives- choose from Nuclear 3XX or 4XX courses not otherwise required for the major. Nuclear 500 level courses other than 500, 502, 598 may also be used for department electives.

## ull Status Progression

A lower-division student may apply for progression to upper division after completing CHEM 122/123 or 128°, CHEM 132/133 or 138°, MATH 132/141/147°, MATH 142/148°, MATH 231/237, EF 151/157°, EF 152/158°, and PHYS 231°, with a grade of C or better in each, and an overall GPA of at least 2.5.

## Provisional Status Progression

Students who have completed CHEM 122/123 or 128\*, MATH 132/141/147\*, MATH 142/148\*, MATH 231/237, EF 151/157\*, EF 152/158\*, and PHYS 231\* with a grade of C or better and have an overall GPA between 2.0 and 2.5 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 2.5 in the first 9 hours of 300-level required nuclear engineering courses. Award of upper-division full status is dependent upon this performance. Students who have not progressed to upper-division the departmental courses.

## **Nuclear Graduation Requirements**

Students are required to maintain a cumulative grade point average of at least 2.0 in all nuclear engineering courses taken at the University of Tennessee, Knoxville used to satisfy the graduation requirement. No more than four (4) credit hours of required nuclear engineering 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 are storongly recommended to meet with their faculty advisor every semester.

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.