Nuclear Engineering Catalog 2022 Radiological Concentration

1	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	EF 105 (1) FA, SP	English 101/118 or 198 or 131 (3) FA, SP, SU	
hours	Prereq- Math 141 is ACT Math 28 or SAT Math 660	Prereq-Math 119; recommended	Coreq- Math 132/141/147 or higher	Coreq- EF 151 or 157	101 Regular; 118 Honors; 198 Chancellor Honors	Only;
	Prereq-Math 132 is Math 131	background in Math 131	and EF 105 or CS 101 or CS 102		131 English as Second Language	
oring	Math 142 or 148 (4) (QR) FA, SP, SU	Chem 132(3) and 133(1) or 138 (4) FA, SP, SU	EF 152 or 158 (4) (NS and El) FA, SP, SU	English 102 or 290 or 298 or 132 (3) FA, SP, SU		
15 hours	Prereq- Math 132 or 141 or 147	Prereq- Chem 122 and 123 or 128	Prereq-EF 142/151/157 with C or higher	102 Prereg 101 or 118; 290 Prereg AP 101 credit		
			Coreq- Math 142 or 148	298 Prereq Chancellor Honors only & 198; 132 Prere	eq 131 ESL	
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all	Math 231 or 237 (3) FA, SP, SU	NE 200 (2) FA	ME 202 (2) FA, SP, SU	Physics 231 (3) FA, SP, SU	EF 230 (2) FA, SP	ECON 201 or 207 (4) FA, SP, SU
16 hours	Prereq- Math 142 or 148		Coreq- EF 152 or 158 and	Prereq- Phys 135 or EF 151 and 152	Prereq- EF 105 or CS 102	Vol Core Social Science (SS)
			Math 142 or 148	Coreq- Math 142 or 148	Coreq- EF 152/158	
oring	Math 241 or 247 (4) FA, SP, SU	NE 233 (3) SP	ME 331 (3) FA, SP, SU	Physics 232 (4) FA, SP	NE 250 (3) SP	
17 hours	Prereq- Math 142 or 148	Prereq-NE 200	Coreq- Math 241 or 247	Prereq- Physics 231	Prereq- NE 200, Math 231 or 237	
				Coreq- Math 241 or 247	Coreq- Math 241 or 247	
dl .	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; and ME 331 with grade of C or	Prereq- Math 231/237, 241/247, NE 250	Prereq- Physics 232 or 250	Global Citizenship United States (GCUS)	Expanded Perspectives- choose from	
	higher				AH, AAH, GCUS, GCI, or SS	
ring	NE 401 (4) (WC) SP	Technical Elective *(3) FA, SP, SU	NE 470 (3) FA, SP	Stats 251 (3) FA, SP, SU	Technical Elective *(3) FA, SP, SU	_
16 hours	Prereq-English 102, 132, 290 or 298	Petition required in advance	Prereq- NE 362 or 367	Prereq- Math 142 or 148	Petition required in advance	
	and NE 233 and NE 250					
	Coreq- Math 241or 247					
all	NE 400 (1) FA, SP	NE 402 or 427 (4) FA, SU	NE 490 (3) FA	NE 471 (1) (OC) FA	Technical Elective *(3) FA, SP, SU	Vol Core (3) FA, SP, SU
5 hours	Minimum student level — senior	Prereq- NE 401 and 470	Prereq- NE 233 or 433	Prereq- NE 470	Petition required in advance	Arts and Humanities (AH)
10 Hours		Freieg NE 401 and 470	FIGIE4- NE 233 01 433		reution required in advance	Arts and Humanities (Art)
oring	NE 406 or 467 (3) SP	NE 472 (3) (AOC and El) SP	Technical Elective *(3) FA, SP, SU	Vol Core (3) FA, SP, SU	Vol Core (3) FA, SP, SU	
15 hours	Prereq- NE 233 or 433 & Physics 232	Prereq- NE 471	Petition required in advance	Global Citizenship International (GCI)	Expanded Perspectives- choose from	
	1010g 112 200 01 400 01 Hyaloa 202	rood inc in t	a sasari oqui ou in duvanoo	olosal olizonship mematohal (GOI)	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. Courses in Nuclear Engineering other than 500, 502 or 598 may also be used as technical electives.

They also be used as technical election

Full 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°, CHEM 132/133 or 138°, MATH 132/141/147°, MATH 142/148°, MATH 23/237, EF 151/157°, EF 152/158°, and PHYS 231° with a grade of C or better and have an overall GPA between 20 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 astisfactorily 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 students are required to demonstrate their ability to perform astisfactorily 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 students have been obtained to avail ability of performs astisfactorily 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 been obtained to availability of performs astisfactorily 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 been obtained to availability of performs astisfactorily in upper-division by attaining an inimum GPA of 2.5 in the first 9 hours of 300-level required nuclear engineering 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 Unversity of Tennessee, Knowlile 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 strongly 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.