

Nuclear Engineering Catalog 2016 Radiological Concentration

Fall 16 hours	Math 141 or 147 (4) FA, SP, SU Prereq- Math 130 or Math ACT 28 or Math SAT 630	English 101 or 118 (3) FA, SP, SU	Chem 120 or 128 (4) FA, SP, SU Math 130	EF 151 or 157 (4) FA, SP Coreq- Math 141 or 147 and EF 105	EF 105 (1) FA, SP Coreq- EF 151 or 157	
Spring 15 hours	Math 142 or 148 (4) FA, SP, SU Prereq- Math 141 or 147	English 102 (3) FA, SP, SU Prereq- English 101 or 118	Chem 130 or 138 (4) FA, SP, SU Prereq- Chem 120 or 128	EF 152 or 158 (4) FA, SP Prereq- EF 151 or 157		
Fall 16 hours	Math 231 (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 Coreq- Math 142 or 148	EF 230 (2) FA, SP Prereq- EF 152 or 158 or Physics 136 or 138	ECON 201 or 207 (4) FA, SP, SU Social Science
Spring 17 hours	Math 241 or 247 (4) FA, SP, SU Prereq- Math 142 or 148	ME 331 (3) FA, SP, SU Coreq- Math 241 or 247	NE 233 (3) SP Prereq- NE 200	Physics 232 (4) FA, SP, SU Prereq- Physics 231 Coreq- Math 241 or 247	Gen Ed (3) FA, SP, SU Arts and Humanities	
Fall 15 hours	NE 342 or 347 (3) FA Prereq- Math 241 or 247	ECE 301 (3) FA, SP Prereq- Math 231	NE 362 or 367 (3) FA Prereq- Math 231 and 241 or 247	Physics 341 (3) FA Prereq- Physics 232	Gen Ed (3) FA, SP, SU Cultures and Civilizations	
Spring 16 hours	NE 401 (4) SP Coreq- ECE 301 & Math 241/247	Stats 251 (3) FA, SP, SU Prereq- Math 142 or 148	NE 351 or 357 (3) SP Prereq- NE 200	NE 470 (3) FA, SP Prereq- NE 362 or 367	Gen Ed (3) FA, SP, SU Social Science	
Fall 17 hours	NE 402 or 427 (WC) (4) FA Prereq- NE 401 and 470	NE 490 (3) FA	ME 321 (3) FA, SP, SU Prereq- ME 202 with C or better and Math 142 or 148	Technical Elective *(3) FA, SP, SU Petition required in advance	Gen Ed (3) FA, SP, SU Cultures and Civilizations	NE 471 (1) FA Prereq- NE 470
Spring 13 hours	NE 400 (OC) (1) SP Minimum student level — senior	NE 406 or 467 (3) SP Prereq- NE 233 & Physics 232	NE 472 (3) SP Prereq- NE 471	Technical Elective *(3) FA, SP, SU Petition required in advance	Gen Ed (3) FA, SP, SU Arts & Humanities	

***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. Pre-med, pre-vet, and pre-dentistry students should take Chem 350, Chem 360 and 369

Full Status Progression

A lower-division student may apply for progression to upper division after completing CHEM 120* or CHEM 128*, CHEM 130* or CHEM 138*, MATH 141* or MATH 147*, MATH 142* or MATH 148*, MATH 231, EF 151* or EF 157*, EF 152* or EF 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 120* or CHEM 128*, CHEM 130* or CHEM 138*, MATH 141* or MATH 147*, MATH 142* or MATH 148*, MATH 231, EF 151* or EF 157*, EF 152* or EF 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 will be dropped from departmental courses.

Students also have opportunities for an Honors Concentration and/or a five year BS/MS program. See the Undergraduate Catalog for details and requirements.

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 strongly recommended to meet with their faculty advisor every semester.

UTRACK Milestones:

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