Radiological Concentration

**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 101/118 or 198 or 131 (3) FA, SP, SU**

16 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 142 or 148
Coreq- Math 142 or 146
Prereq-Math 131
Prereq- EF 105 or CS 101 or CS 110
101 English as Second Language
Prereq-Math 132 is Math 131
and EF 105 or CS 101 or CS 102
Coreq- EF 151 or 157
131 English as Second Language
Prereq-Math 132 or 141 or 147
Coreq- EF 152 or 158

**Spring**

- **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 EI] 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
Prereq- 101 or 118; 290 Prereq AP 101 credit
Coreq- Math 142 or 148
298 Prereq Chancellor Honors only & 198; 132 Prereq 131 ESL

**Fall**

- **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
Coreq- Math 241 or 247
132 Prereq 131 ESL

**Spring**

- **Math 241 or 247 (4) FA, SP, SU**
- **NE 233 (3) SP**
- **ME 331 (3) FA, SP, SU**
- **Physics 232 (4) FA, SP, SU**
- **Vol Core Social Science (3) FA, SP, SU**
- **NE 250 (3) SP**
- **Technical Elective *(3) FA, SP, SU**
- **Stats 251 (3) FA, SP, SU**
- **Vol Core (3) FA, SP, SU**

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

**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; and ME 331 with grade of C or higher
Prereq- Math 231/237, 241/247, NE 250
Prereq- Physics 232 or 250
Vol Core Global Citizenship United States (GCUS)
Expanded Perspectives- choose from AH, AAH, GOUS, GOI, or SS

**Spring**

- **NE 401 (4) (WC) SP**
- **Technical Elective *(3) FA, SP, SU**
- **Tech 251 (3) FA, SP, SU**
- **Vol Core (3) FA, SP, SU**
- **Vol Core (3) FA, SP, SU**

16  hours

Prereq- English 102, 132, 290 or 298
Prereq- NE 362 or 367
Petition required in advance
Vol Core Global Citizenship International (GCI)
Expanded Perspectives- choose from AH, AAH, GOUS, GOI, or SS

**Fall**

- **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**

15 hours

Prereq- NE 401 and 470
Prereq- NE 233 or 433
Petition required in advance
Petition required in advance
Petition required in advance
Arts and Humanities (Arts)

**Spring**

- **NE 406 or 467 (3) SP**
- **NE 472 (3) [AOC and ES] SP**
- **Vol Core (3) FA, SP, SU**
- **Vol Core (3) FA, SP, SU**

15  hours

Prereq- NE 233 or 433 & Physics 252
Prereq- NE 471
Petition required in advance
Expanded Perspectives- choose from AH, AAH, GOUS, GOI, or SS

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*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.

Full Status Progression

A lower-division student may apply for progression to upper division after completing CHEM 122/13 or 138*, 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, 132/13 or 138*, 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 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 final 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.

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.

**Volunteer Core courses highlighted in light orange.**