## Nuclear Engineering Catalog 2019

### Radiological Concentration

#### Fall
- **16 hours**
  - **Math 141 or 147 (4) FA, SP, SU**
  - **Chem 120 or 128 (4) FA, SP, SU**
  - **EF 151 or 157 (4) FA, SP**
  - **EF 105 (1) FA, SP**
  - **English 101/118 or 198 or 131 (3) FA, SP, SU**
- **16 hours**
  - **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**
- **17 hours**
  - **Math 342 or 347 (3) FA**
  - **ECE 301 (3) FA, SP**
  - **NE 362 or 367 (3) FA**
  - **Physics 341 (3) FA**
  - **NE 470 (3) FA, SP**
- **17 hours**
  - **NE 401 (4) SP**
  - **Stats 251 (3) FA, SP, SU**
  - **NE 351 or 357 (3) SP**
  - **NE 470 (3) FA, SP**
  - **NE 471 (1) FA**

#### Spring
- **15 hours**
  - **Math 142 or 148 (4) FA, SP, SU**
  - **Chem 130 or 138 (4) FA, SP, SU**
  - **EF 152 or 158 (4) FA, SP, SU**
  - **English 102 or 290 or 298 or 132 (3) FA, SP, SU**
- **15 hours**
  - **Math 241 or 247 (4) FA, SP, SU**
  - **NE 233 (3) FA, SP, SU**
  - **NE 233 (3) SP**
  - **Physics 232 (4) FA, SP, SU**
  - **Gen Ed (3) FA, SP, SU**
- **15 hours**
  - **NE 402 or 427 (4) FA**
  - **NE 406 or 467 (3) FA**
  - **NE 472 (3) SP**
  - **Technical Elective *(3) FA, SP, SU**
  - **Gen Ed (3) FA, SP, SU**
- **17 hours**
  - **NE 400 (OC) (1) SP**
  - **Minimum student level — senior**
  - **NE 406 or 467 (3) SP**
  - **NE 472 (3) SP**
  - **Technical Elective *(3) FA, SP, SU**

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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. Pre-med, pre-vet, and pre-dentistry students should take Chem 260, Chem 360 and 369.

**Full Status Progression**

A lower-division student may apply for progression to upper division after completing CHEM 120/128*, CHEM 130/138*, MATH 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 120/128*, CHEM 130/138*, MATH 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 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.

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