### Nuclear Engineering Catalog 2018

#### Fall

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
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</table>
| 16    | Math 141 or 147 (4) FA, SP, SU  
Prereq: Math 130 or math ACT 28 or Math SAT 630  
Chem 120 or 128 (4) FA, SP, SU  
Prereq: Math 119; recommended background Math 130  
EF 151 or 157 (4) FA, SP  
Coreq: Math 141 or 147 and EF 106  
EF 105 (1) FA, SP  
English 151/118 or 198 or 131 (3) FA, SP, SU  
101 Regular; 118 Honors; 198 Chancellor Honors Only; 131 English as Second Language |

#### Spring

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<tr>
<th>Hours</th>
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</table>
| 15    | Math 142 or 148 (4) FA, SP, SU  
Prereq: Math 141 or 147  
Chem 130 or 138 (4) FA, SP, SU  
Prereq: Chem 120 or 128  
EF 152 or 158 (4) FA, SP, SU  
Prereq: EF 151 or 157  
English 162 or 298 or 298 or 132 (3) FA, SP, SU  
120 Prereq 101 or 118; 298 Prereq AP 101 credit  
298 Prereq Chancellor Honors only & 198; 132 Prereq 131 ESL |

#### Fall

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| 16    | 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  
Coreq: Math 142 or 148  
EF 230 (2) FA, SP  
ECON 201 or 207 (4) FA, SP, SU  
Social Science |

#### Spring

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| 15    | 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  
Physics 232 (4) FA, SP, SU  
Coreq: Physics 231  
Coreq: Math 241 or 247  
Gen Ed (3) FA, SP, SU  
Arts and Humanities |

#### Fall

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| 15    | 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 or 241 or 247  
Physics 341 (3) FA  
Prereq: Physics 232  
Gen Ed (3) FA, SP, SU  
Cultures and Civilizations |

#### Spring

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| 16    | NE 401 (WC) (4) SP  
Prereq: English 102, 132, 290 or 298  
Coreq: ECE 301 & Math 241/247  
NE 351 or 357 (3) SP  
Prereq: NE 200  
MSE 201 or 207 (3) FA,SP,SU  
Prereq: Chemistry 120 or 128  
NE 470 (3) FA, SP  
Coreq: NE 362 or 367  
Gen Ed (3) FA, SP, SU  
Social Science |

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| 15    | NE 402 or 427 (WC) (4) FA  
Prereq: NE 401 and 470  
English 102, 132, 290 or 298  
NE 360 (4) FA  
Prereq: NE 342  
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  
NE 471 (1) FA  
Prereq:NE 470 |

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| 16    | Minimum level Senior in Nuclear  
NE 406 or 467 (3) SP  
Prereq: NE 233 or 433 & Physic 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

*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 used as technical electives.

### 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.

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:

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