Nuclear Engineering Catalog 2018
Radiological Concentration

|  | Radiological Concentration |  |  |  |  |
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| Fall 16 hours | Math 141 or 147 (4) FA, SP, SU Prereq- Math 130 or Math ACT 28 or Math SAT 630 | $\begin{aligned} & \text { Chem } 120 \text { or } 128 \text { (4) FA, SP, SU } \\ & \text { Prereq-Math } 119 \text { recommended } \\ & \text { background Math } 130 \\ & \hline \end{aligned}$ | EF 151 or 157 (4) FA, SP <br> Coreq- Math 141 or 147 and <br> EF 105 | $\begin{aligned} & \text { EF } 105 \text { (1) FA, SP } \\ & \text { Coreq- EF } 151 \text { or } 157 \end{aligned}$ | $\begin{aligned} & \text { English 101/118 or } 198 \text { or } 131 \text { (3) FA, SP, SU } \\ & 101 \text { Regular; } 118 \text { Honors; } 198 \text { Chancellor Honors Only; } \\ & 131 \text { English as Second Language } \end{aligned}$ |
| Spring 15 hours | 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 102 or $\mathbf{2 9 0}$ or $\mathbf{2 9 8}$ or $1 \mathbf{1 3 2}$ (3) FA, SP, SU <br> 102 Prereq 101 or $118 ; 290$ Prereq AP 101 credit <br> 298 Prereq Chancellor Honors only \& 198; 132 Prereq 131 ESL |  |
| Fall 16 hours | $\begin{aligned} & \text { Math } \mathbf{2 3 1} \text { or } \mathbf{2 3 7} \text { (3) FA, SP, SU } \\ & \text { Prereq- Math } 142 \text { or } 148 \end{aligned}$ | 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 <br> Prereq- EF 105 or CS 102 <br> Coreq- EF 152/158$\quad$ECON 201 or 207 (4) FA, SP, SU <br> Social Science |
| Spring 17 hours | $\begin{array}{\|l\|} \hline \text { Math } \mathbf{2 4 1} \text { or } \mathbf{2 4 7} \text { (4) FA, SP, SU } \\ \text { Prereq- Math } 142 \text { or } 148 \end{array}$ | ME 331 (3) FA, SP, SU <br> Coreq- Math 241 or 247 |  | Physics 232 (4) FA, SP, SU <br> Prereq- Physics 231 <br> 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 <br> Prereq- Math 231 and 241 or 247 | Physics 341 (3) FA <br> Prereq- Physics 232 | Gen Ed (3) FA, SP, SU Cultures and Civilizations |
| Spring 16 hours | NE 401 (4) SP <br> Coreq- ECE 301 \& Math 241/247 | Stats 251 (3) FA, SP, SU <br> 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 | $\text { NE } 402 \text { or } 427 \text { (WC) (4) FA }$ $\text { Prereq- NE } 401 \text { and } 470$ | NE 490 (3) FA | ME 321 (3) FA, SP, SU <br> Prereq- ME 202 with C or better <br> and Math 142 or 148 and Math 142 or 148 | Technical Elective *(3) FA, SP, SU Petition required in advance | Gen Ed (3) FA, SP, SU <br> Cultures and Civilizations$\quad$NE 471 (1) FA <br> Prereq- NE 470 |
| Spring <br> 13 hours | NE 400 (OC) (1) SP <br> Minimum student level - senior | NE 406 or 467 (3) SP Prereq- NE 233 or 433 \& Physics 232 | NE 472 (3) SP <br> 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 260, Chem 360 and 369
Full Status Progression
 least 2.5 .

Provisional Status Progression

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

