NUCLEAR ENGINEERING

Academic Year: 2016-2017

FIRST YEAR

Fall

- NSE 114 or ENGR 112 (F,W,S 3)
- CH 201/211 Chemistry (F,W,S 3/1)
- MTH 251 Differential Calculus (F,W,S 4)
- WR 121 English Composition (F,W,S 3)
- Perspectives (F,W,S 3)

Winter

- NSE 115 or ENGR 112 (F,W,S 3)
- CH 202/212 Chemistry (W,S 3/1)
- MTH 252 Integral Calculus (F,W,S 4)
- COMM 111/114 Speech (F,W,S 3)
- Perspectives (F,W,S 3)

Spring

- PHL 205 Ethics (F,W,S 3)
- MTH 254 Vector Calculus (F,W,S 4)
- PH 211 Physics w/ Calculus (F,S 4)
- MTH 251 Co-Req
- Shaded courses are required by the college prior to admission to the Professional Engineering Program
- Shaded courses are additional prerequisites for third-year courses.
- () The number within the parenthesis represent the credits of the course.
- F, W,S: Represents the term the course is offered (Fall, Winter and Spring term respectively).

SECOND YEAR

Fall

- ENGR 211 Statistics (F,W,S 3)
- NSE 234 Nuclear & Radiation Physics I (F,3)
- PH 211 Physics w/ Calculus (F, S 4)
- MTH 254 Co-Req
- MTH 256 Differential Equations (F,W,S 4)
- MTH 254 Co-Req
- MTH 252 Co-Req

Winter

- ENGR 213 Strength of Materials (F,W,S 3)
- NSE 235 Nuclear & Radiation Physics II (W,3)
- NSE 236 Nuclear Radiation Detection & Instrumentation (S,4)
- MTH 306 Matrix & Power Series Methods (F,W,S 4)
- MTH 254 Co-Req
- Soph. Stdg.

Spring

- ENGR 212 Dynamics (F,W,S 3)
- NSE 333 Mathematical Methods for NE (S, 3)
- ENGR 248 Engr. Graphics w/Solid Works (F,W,S 3)
- MTH 252 Co-Req

Rev. 8/2016
NOTES:

1. Starting Fall 2001, MTH 306 – Matrix and Power Series Methods (4), will replace MTH 253 – Infinite Series (4) (which is used for admission to the Professional Engineering Program) and MTH 341 – Linear Algebra (3) or equivalent.

2. NSE 234 and NSE 235 are required to begin the third-year course sequences.

3. With advisor approval, CH 121 + 122 + 123 may be substituted for the chemistry series CH 201 + 202 or CH 221 + 222. The grades in CH 121 + 122 will be averaged for calculating the pre-engineering core GPA.

4. Credits to graduate = 180.