NUCLEAR ENGINEERING – 2 Year Plan

**FIRST YEAR**

**Fall**
- NSE 114 or ENGR 111 (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 (3) (western culture) (F,W,S 3)
- Lifetime Fitness e.g. HHS 231 (F,W,S 2)
- MTH 254 Vector Calculus (F,W,S 4)
- MTH 251 Differential Calculus (F,W,S 4)
- MTH 252 Integral Calculus (F,W,S 4)

**SECOND YEAR**

**Fall**
- ENGR 211 Statics (F,W,S 3)
- NSE 234 Nuclear Radiation Physics I (F,S 3)
- MTH 254 Vector Calculus (F,W,S 4)
- PH 211 Physics w/ Calculus (F,S 4)
- PH 212 Physics w/ Calculus (F,W 4)

**Winter**
- ENGR 213 Strength of Materials (F,W,S 3)
- NSE 235 Nuclear Radiation Physics II (W,S 3)
- MTH 256 Differential Equations (F,W,S 4)
- MTH 252 Integral Calculus (F,W,S 4)
- MTH 254 Vector Calculus (F,W,S 4)

**Spring**
- ENGR 212 Dynamics (F,W,S 3)
- NSE 236 Nuclear Radiation Detection & Instrumentation (S 4)
- MTH 306 Matrix & Power Series Methods (F,W,S 4)
- MTH 253 Differential Equations (F,W,S 4)
- PH 213 Physics w/ Calculus (W,S 4)

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).

Academic Year: 2018-2019

Rev. 7/2018
NOTES:

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

2. 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.

3. Credits to graduate = 180.