NUCLEAR ENGINEERING CURRICULUM
2020-2021

**CORE**

- NE 501 Seminar
- NE 525 Methods of Analysis

**Pick two from the following**

- NE 511 Advanced Nuclear Reactor Theory
- NE 520 Radiation Interactions and Transport
- NE 524 Interaction of Rad. w/Matter
- NE 564 Thermal-Hydraulic of Nuclear Systems
- NE 571 Radiation Damage in Materials

- NE *510 Nuclear Reactor Theory

Students who do not have a background in Nuclear reactor theory are also required to take NE *510 Nuclear Reactor Theory. Other leveling course work may be required.

**NE ELECTIVE COURSES**

Elective courses to meet coursework hours (Plan I 30 hrs, Plan II 33 hrs, & Plan III 30 hrs)

- NE *485 Fusion Technology
- NE 515 Special Topics
- NE 527 Radiation Biology for Engineers & Scientists
- NE 513L Grad Nuclear Engineering
- NE 528 External Radiation Dosimetry
- NE 523L Environmental Measurements Laboratory
- NE 529 Internal Radiation Dosimetry
- NE 528L Environmental Measurements Laboratory
- NE 539 Radioactive Waste Management
- NE 562 Monte Carlo Techniques for Nuclear Engineering
- NE 568 Advanced Methods in Radiation Transport
- NE 562L Introduction to Space Nuclear Power

*Plan I will required 6 hrs of Thesis & Plan II will require 6 hours of practicum.
Additional graduate electives can be taken from MATH, PHYC, CHEM, CS, CBE, ME & other approved STEM fields.