**NUCLEAR ENGINEERING CURRICULUM**

**2020-2021**

**SHARED CREDIT**
- NE 510 Nuclear Reactor Theory
- NE 562 Monte Carlo Techniques for
- NE 513L Nuclear Engineering Laboratory

**CORE**
- NE 501 Seminar
- NE 525 Methods of Analysis
- 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 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 513L Grad Nuclear Engineering Laboratory
- NE 523L Environmental Measurements Laboratory
- NE 527 Radiation Biology for Engineers & Scientists
- NE 518 External Radiation Dosimetry
- NE 529 Internal Radiation Dosimetry
- NE 539 Radioactive Waste Management
- NE 562 Monte Carlo Techniques for
- NE 568 Introduction to Space Nuclear Power
- NE 569 Advanced Methods in Radiation Transport

*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.*