

NUCLEAR ENGINEERING CURRICULUM

2021-2022

*CORE

Students who do not have a background in Nuclear reactor theory are also required to take NE *410/510 Nuclear Reactor Theory. Other leveling course work may be required. Must have a B or better to satisfy pre-req.

NE *410/510
Nuclear Reactor
Theory

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 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

NE 523L
Environmental
Measurements
Laboratory

NE 527
Radiation Biology for
Engineers &
Scientists

NE 528
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 610
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.