Department of Nuclear Engineering
Texas A&M University
NUEN Normal Progression of Courses - Catalog 136

Freshman Year
Semester 1
- ENGL 104: Composition & Rhetoric
- CHEM 107: Chemistry for Engineers
- ENGR 111: Foundations in Engineering I
- MATH 151: Engineering Math I
- PHYS 218: Mechanics
- NUEN 101: Principles of Nuclear ENGR

Semester 2
- ENGR 112: Foundations in Engineering II
- MATH 152: Engineering Math II
- PHYS 208: Electricity & Optics
- NUEN 102: Intro to Nuclear ENGR I

Sophomore Year
Semester 3
- MEEN 221: Statics & Particle Dynamics
- MATH 251: Engineering Math III
- ECEN 215: Principles of Electrical ENGR
- NUEN 201: Intro to Nuclear ENGR II

Semester 4
- MEEN 315: Principles of Thermodynamics
- CVEN 305: Mechanics of Materials
- MATH 308: Differential Equations
- NUEN 202: Intro to Nuclear ENGR III

Junior Year
Semester 5
- ENGL 301 (Tech Writing) or COMM 203 (Public Speaking)
- MEEN 344: Fluid Mechanics
- MATH 309: Linear Algebra for Differential Equations
- NUEN 303: Nuclear Detection & Isotopes

Semester 6
- MEEN 461: Heat Transfer
- MEEN 329: Analytical & Numerical Methods
- NUEN 304: Nuclear Reactor Analysis
- NUEN 309: Radiological Safety

Senior Year
Semester 7
- ENGL 302: Economic Analysis Project
- MEEN 460: Nuclear Plant Systems & Transients
- NUEN 406: Nuclear ENGR Systems/Design
- NUEN 405: Design of Nuclear Reactors

Semester 8
- ENGR 482: Ethics & Engineering
- NUEN 489: Fuel Assembly & 3D Core Design
- NUEN 410: Design of Nuclear Reactors
- NUEN 403: Nuclear Reactor Analysis

Prerequisite
Co-requisite
Semester 1
Semester 2
Semester 3
Semester 4
Semester 5
Semester 6
Semester 7
Semester 8

Power Track Option
Students take NUEN 418 and choose between NUEN 460 OR NUEN 430

Freshman Year
Sophomore Year
Junior Year
Senior Year

KINE 198: Health/Fitness Activity
KINE 199: Required Fitness Activity
HIST 105: History of the U.S.
HIST 106: History of the U.S.

POLS 206: American Natl. Government
POLS 207: State & Local Government
Visual and Performing Arts
Social and Behavioral Science

International and Cultural Diversity
Humanities
International and Cultural Diversity
Tech Elective

Tech Elective
Tech Elective
Tech Elective