



**Degree Map**

**CATALOG YEAR: 2026-27**

**Degree: BSNE**

**MAJOR: Nuclear Engineering**

*The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and course schedule. This document provides general direction.*

Course	Cr. Hrs.	Course	Cr. Hrs.
<b>FIRST YEAR</b>			
Semester: Fall Total Credit Hours: 17		Semester: Spring Total Credit Hours: 17	
ME 1010 Mechanical Eng. Fundamentals I	3	NE 2110 Introduction to Nuclear Energy	3
MATH 1910 Calculus 1	4	ME 1020 Mechanical Eng. Fundamentals II	3
CHEM 1110 General Chemistry 1	4	MATH 1920 Calculus 2	4
ENGL 1010 English Composition I	3	PHYS 2110 Physics 1	4
Humanities and Cultural Expression Elective 1	3	ENGL 1020 English Composition II	3
Course	Cr. Hrs.	Course	Cr. Hrs.
<b>SOPHOMORE YEAR</b>			
Semester: Fall Total Credit Hours: 17		Semester: Spring Total Credit Hours: 16	
NE 2120 Radiation Protection and Safety	3	NE 2130 Nuclear Regulation and Safety	3
CEE 2110 Statics	3	ME 2210 Thermodynamics	3
MATH 2110 Calculus III	4	ME 2330 Dynamics	3
PHYS 2120 Physics 2	4	ME 2910 Professionalism and Ethics	1
PC 2500 or COMM 2025 Communications	3	MATH 2120 Differential Equations	3
		Humanities and Cultural Expression Elective 2	3
Course	Cr. Hrs.	Course	Cr. Hrs.
<b>JUNIOR YEAR</b>			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 15	
NE 3210 Nuclear Reactor Theory	3	NE 3220 Computational Methods for NE	3
NE 3230 Radiation Detection and Measurement	3	NE 3240 Nuclear Reactor Engineering	3
ME 3710 Heat Transfer	3	Area of Emphasis Course	3
ME 3720 Fluid Mechanics	3	Area of Emphasis Course	3
MATH 3470 Intro to Probability and Statistics	3	Financial and Digital Literacy Elective	3
Course	Cr. Hrs.	Course	Cr. Hrs.
<b>SENIOR YEAR</b>			
Semester: Fall Total Credit Hours: 16		Semester: Spring Total Credit Hours: 15	
NE 4230 Nuclear Reactor Operations	3	NE 4240 Nuclear Fuel Cycle	3
NE 4211 Nuclear Engineering Design I	3	NE 4212 Nuclear Engineering Design II	3
NE 4400 Nuclear Energy Seminar	1	Area of Emphasis Course	3
Area of Emphasis Course	3	Area of Emphasis Course	3
Area of Emphasis Course	3	Social and Behavioral Sciences Elective 2	3
Social and Behavioral Sciences Elective 1	3		