



Degree Map

CATALOG YEAR: 2024-25

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.
FIRST YEAR			
Semester: Fall Total Credit Hours: 16		Semester: Spring Total Credit Hours: 16	
ENGR 1110 Graphics	2	ENGL 1020 English Composition II	3
MATH 1910 Calculus 1	4	ENGR 1120 Programming	2
CHEM 1110 Gen Chemistry	4	MATH 1920 Calculus II	4
ENGL 1010 English Composition I	3	PHYS 2110 Physics I	4
Humanities/Fine Arts Elective	3	Humanities/Fine Arts Elective	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall Total Credit Hours: 17		Semester: Spring Total Credit Hours: 17	
CEE 2110 Statics	3	ME 2330 Dynamics	3
MATH 2120 Diff. Equations	3	NE 2110 Intro to Nuclear Energy Systems	3
MATH 3470 Prob and Statistics	3	ME 3010 Materials	3
PHYS 2120 Physics II	4	ECE 2050 Principles of Electric Circuits	4
ENGL 2130, 2230, or 2330 Lit.	3	MATH 2110 Calculus III	4
ME 2910 Professionalism and Ethics	1		
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 15	
ME 3001 ME Analysis	3	ME 3023 Measurements	3
PHYS 2420 Modern Physics	3	NE 3210 Nuclear Reactor Safety & Analysis	3
ME 3210 Thermo I	3	NE 4110 Nuclear Engineering Lab I	3
ME 3720 Fluid Mechanics	3	ME 3710 Heat Transfer	3
NE 2120 Intro Radiological Engg and Detection	3	PC 2500 or COMM 2025 Communications	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall Total Credit Hours: 16		Semester: Spring Total Credit Hours: 16	
NE 4120 Nuclear Engineering Lab II	3	NE 4320 Senior Design II	3
NE 4210 Nuclear Reactor Theory and Analysis	3	NE 4220 Nuclear Reactor Dynamics and Control	4
NE 4310 Senior Design I	3	NE Elective	3
NE Core Elective	3	NE Elective	3
Social Behavior Sc. Elective	3	Social Behavior Sc. Elective	3
NE 4410 Senior Seminar	1		