

Nuclear Science and Engineering

Department of Mechanical and Aerospace Engineering, Ohio State University

- A total of 12 credit hours are required to complete the Technical Elective Requirements
- Students must complete two courses (a minimum of 6 credit hours) from two of the three categories (Design, Computational, Applications)
- **This is an example curriculum. All students must meet program requirements as detailed here: <https://mae.osu.edu/mechanical-engineering-technical-electives>**

Design Classes		
Course	Hours	Course Name
None	None	None
Computational Classes- Take 3 credit hours of		
Course	Hours	Course Name
ME 5539	3	Applied Computational Fluid Dynamics and Heat Transfer
Applications Classes- Take up to 9 credit hours of		
Course	Hours	Course Name
NE 4505	3	Introduction to Nuclear Science and Engineering
NE 4506	3	Undergraduate Nuclear Engineering Laboratory
NE 4536	3	Nuclear Reactor Systems
NE 5606	3	Radiation Protection and Shielding
NE 5610	3	Reactor Safety
Other MAE Classes- Take no more than 6 credit hours of the following		
Course	Hours	Course Name
NE 5735	3	Nuclear Power Plant Operations
NE 5776	3	Nuclear Fuel Cycles and Radioactive Waste Management
Other Classes- Take no more than 3 credit hours of the following		
Course	Hours	Course Name
BUSMHR 2500	3	Entrepreneurship
PUBAFRS 3000	3	Introduction to Public Policy Analysis
PUBAFRS 5600	3	Science, Engineering, and Public Policy

****Students pursuing the Nuclear Engineering minor should speak to a MAE advisor about Technical Elective options**