

# Energy and Environment Quality

## 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 between 3 to 9 credit hours of

Course	Hours	Course Name
ME 5339	3	Simulation Techniques for Dynamic Systems
ME 5530	3	Internal Combustion Engines
ME 5539	3	Applied Computational Fluid Dynamics and Heat Transfer

### Applications Classes- Take between 3 to 9 credit hours of

Course	Hours	Course Name
ME 5427	3	Introduction to Turbomachinery
ME 5502	3	Engineering Thermodynamics
ME 5541	3	HVAC

### Other Classes- Take no more than 3 credit hours of the following

Course	Hours	Course Name
BUSMHR 2500	3	Entrepreneurship
ENGR 5050	3	Introduction to Humanitarian Engineering
FABE 3510	3	Introduction to Biological Engineering
FABE 3610	3	Utilization of Energy in Agriculture
FABE 3810	3	Agricultural Structures
PUBAFRS 3000	3	Introduction to Public Policy Analysis
PUBAFRS 5600	3	Science, Engineering, and Public Policy