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					
Computational Classes- Take between 3 to 9 credit hours of					
Course	Hours	Course Name			
ME 5339	3	Simulation Techniques for Dynamic Systems			
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		
ME 5530	3	Internal Combustion Engines		

Other Classes- Take no more than 3 credit hours of the following			re than 3 credit hours of the following
	Course	Hours	Course Name
	BUSMHR 2500	3	Entrepreneurship
	CIVILENG 4210	3	The Physics of Sustainable Buildings
	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