

Energy and Environment Concentration

The Energy and Environment (E&E) Concentration in Mechanical Engineering at CUA aims to provide students with knowledge and skills of the growing and challenging areas in energy and environmental engineering and technology.

Coursework related to this concentration will focus on various traditional energy systems and drawbacks, modern or renewable energy technologies, fuels and combustion, environmental protection in ambient and indoor air, and waste, global warming and climate change.

Students in this Concentration are required to take two (6-credit) introductory courses: Energy and Energy Systems (ME 311) and Environmental Engineering (ENGR 438). Depending on student's interests, three (9-credit) advanced E&E Concentration electives are required to select from a dozen of advanced courses in Power & Propulsion, HVAC & Refrigeration, New and Renewable Energy, Energy Conservation and Comfortness, Air Pollution & Environmental Protection, Incineration & Waste Management, Carbon Emission and Global Warming, and Climate Change.

The Concentration of E&E is noted on students' official transcripts and will prepare students for career opportunities in energy industry and environmental protection market. It is recommended that students interested in pursuing the E&E declare their concentration as early as possible, such as the 5th semester (junior), in their degree program in order to facilitate course planning.

