

Mechanical Engineering

Energy and the Environment

Graduate Certificate in Engineering: 12 credits / 4 courses

Students pursuing this option complete four mechanical engineering core courses.

Energy & The Environment Core (choose four):	
	ENME647 Multiphase Flow and Heat Transfer
	ENPM621 Heat Pump and Refrigeration Systems Design Analysis (every fall)
	ENPM622 Energy Conversion I - Stationary Power* (every fall)
	ENPM623 Engineering Combustion Emissions for Air Pollution Control (every other fall)
	ENPM624 Renewable Energy Applications or ENME 701 Sustainable Energy Conversion and the Environment (every fall)
	ENPM625 Heating, Ventilation and Air Conditioning of Buildings (every 1.5 years)
	ENPM626 Waste and Biomass Energy Conversion* (every other summer)
	ENPM627 Environmental Risk Analysis* (every 1.5 years)
	ENPM635 Thermal Systems Design Analysis* or ENME635 Energy Systems Analysis* (every fall)
	ENPM651 Heat Transfer for Modern Application* (every 1.5 years)
	ENPM654 Energy Systems Management* (every summer)
	ENPM656 Energy Conversion II – Mobile Power* [ENPM672 or equivalent] (every spring)

*NOTE: Any courses not listed above must be approved by the Senior Academic Advisor **PRIOR** to registration.*

KEY	
Online Option *	(offering information)
[Prerequisite course]	