

# Certificate in Energy and Environment

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## Admission

This certificate program is open to students who have taken all the prerequisite courses to the courses or alternatives listed herein.

## Program Requirements

Completion of the certificate in energy and environment requires a total of 12 credit hours of course work. This includes completion of ME 502 Thermodynamics II (required for all ME undergraduates). The remainder of the coursework in this certificate program (9 credit hours) will be chosen by the students from a list of approved courses (approved by thermal/fluids/energy/environment faculty).

An overall grade point average of at least 2.000 for all courses comprising the certificate program, and no grade below C, is required to earn the certificate.

Course	Title	Hours
<b>Required Courses</b>		
ME 502	Thermodynamics II <sup>1</sup>	3
<b>Elective Courses</b>		
Select three courses from the following		9
ME 602	Engineering for the Environment	
ME 644	Design of HVAC Systems	
ME/PHYS 702	Energy and Sustainability	
ME 719	Basic Combustion Theory	
ME 731	Advanced Heat Exchanger Design	
ME 740	Indoor Air Pollution and Simulation	
ME 745	Design of Thermal Systems	
ME 770	Transport in Porous Media	
ME 782	Engineering Applications of Computational Fluid Dynamics and Heat Transfer	
<b>Total Credit Hours</b>		<b>12</b>

<sup>1</sup> Students can take ME 702 as an alternative to this requirement.