

Certificate in Energy and Environment

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 |
|---|--|-----------|
| Required Courses | | |
| ME 502 | Thermodynamics II ¹ | 3 |
| Elective Courses | | |
| Select three courses from the following | | 9 |
| ME 360D | Sustainability and Technology | |
| 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 750AJ | Transport in Porous Media | |
| ME 782 | Engineering Applications of Computational Fluid Dynamics and Heat Transfer | |
| Total Credit Hours | | 12 |

¹ Students can take ME 702 as an alternative to this requirement.