

## **Energy Systems Concentration within the Department of Mechanical Engineering**

Global warming, the rising oils prices, and the dependence on foreign oil drives the search for alternative energy solutions. This optional Concentration in Energy Systems will educate students in the renewable and alternate energy areas. The energy systems is a strategic area of growth for the Department of Mechanical Engineering and this Concentration will help students become more competitive in the growing renewable and alternative energy job market.

The following sequence of courses is required for the optional Concentration in Energy Systems within the BS in Mechanical Engineering degree program:

- Introduction to Engineering, ENGR 1101 (required course within the ME BS program)
- Heat & Mass Transfer, ME 4572 (required course within the ME BS program)
- Classical & Statistical Thermodynamics, ENGR 3571 (required course within the ME BS program)
- Renewable and Alternative Energy, ME 4575 (technical elective)
- HVAC – Heating Ventilating and Air Conditioning, ME 4574 (technical elective)
- Advanced Thermodynamics, ME 4571 (technical elective)
- Lab-Energy Conversion, ME 4506 (lab elective)
- Entrepreneurial Engineer, ENGR 3033 (free elective)
- Approved ME Energy Elective (technical elective)