

Course Wrap-up

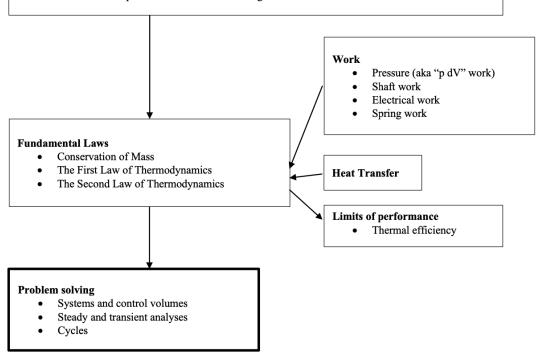
- 1. LEARNING OBJECTIVES. There are four learning objectives associated with this course:
 - To successfully employ the systematic engineering approach to problem solving
 - To master applying the Law of Mass Conservation when analyzing thermodynamics problems
 - To be proficient in the use of the 1st Law of Thermodynamics to perform energy accounting when solving thermodynamics problems
 - To be a competent user of the 2nd Law of Thermodynamics to perform entropy balance when solving thermodynamics problems

Definitions

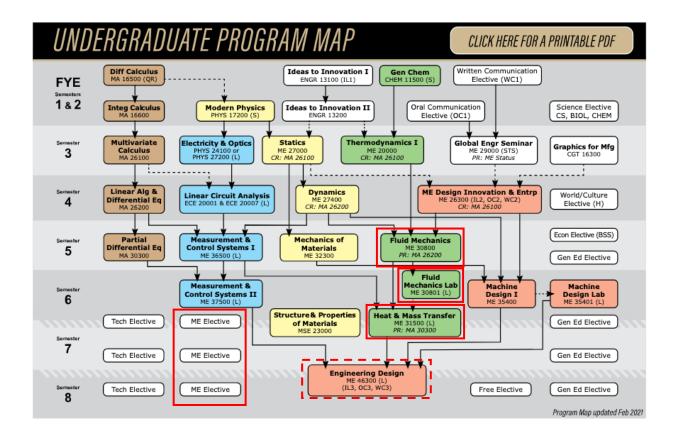
- Systems (aka closed systems)
- Control volumes (aka open systems)
- Others...

Properties

- · Specific volume, pressure, temperature, internal energy, enthalpy, entropy
- Property tables
- Models: incompressible substance and ideal gas



Thermodynamic cycles of practical significance



One of the ME Electives: ME 30000 (Thermodynamics II)