

## CH365 CHEMICAL ENGINEERING THERMODYNAMICS

### **Lesson 6:** Enthalpy, Heat Capacity, and Open Systems 1

**Read:** Sections 2.7-2.8, pp. 39-46

**Problems:** 2.24, 2.40

#### **Objectives:**

1. Calculate enthalpy change when the amount of heat added to the system is known (see Example 2.6).
2. Calculate changes in internal energy, heat, and work in a cyclic process (Problem 2.6).
3. Calculate changes in state using heat capacity.
4. Perform calculations in both English and SI units.

#### **Definitions:**

Enthalpy, heat capacity, constant volume heat capacity, constant pressure heat capacity.

#### **Cadet Notes:**