

## CH365 CHEMICAL ENGINEERING THERMODYNAMICS

### **Lesson 16:** Sensible Heat Effects

**Read:** Section 4.1 pp. 137-145

**Problems:** 4.5, 4.9.

#### **Objectives:**

1. Understand the temperature dependence of heat capacity.
2. Understand how to compute heat capacities for mixtures.
3. Be able to integrate heat capacity polynomials to obtain  $\Delta H$ .
4. Find heat capacity polynomials in CHEMCAD and Aspen+.
5. Build user-defined functions for heat capacity in Mathematica.

#### **Notes:**