

# Material and Energy Balances

CHE 2800 - Winter 2001

Department of Chemical Engineering and Materials Science  
Wayne State University

**Lecture:** 8:30-10:20 am, M W  
8:30-9:25 am, F

**Instructor:** Jeffrey Potoff, PhD, Assistant Professor  
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**Office Hours:** 2:00-3:00 pm, T TH, or by appointment

**Textbook:** Felder, R. M., and Rousseau, R. W., "Elementary Principles of Chemical Processes," 3rd ed., John Wiley and Sons (1999).

**Objectives:** This course is designed to teach you the basic skills required in your future chemical engineering courses.

**Topics include:** An introduction to units, process variables, curve fitting and phase equilibria. A substantial portion of this course is focused on material and energy balances for non-reactive and reactive systems.

<b>Grading:</b>	Scale		Weight
	A: 85-100	Homework	10%
	B: 70-85	Exam #1	30%
	C: 50-70	Exam #2	30%
	D: 35-45	Final Exam	30%

Exams are (tentatively) scheduled for February 16 and April 6.

**Homework:** Homework should be done neatly, preferably on "engineering" paper, written on one side only. Although the homework accounts only for a small portion of the final grade, the exams are directly based on the homework problems. It is therefore in your best interests to complete the homework assignments.