

Adminstrata

Class Times: Monday, Wednesday, Friday from 9:00 AM – 9:55 AM
Classroom: Spalding 106
Recitations: TBD (on request)

Instructor: Dr. Mike Vicic
Office: Spalding 117
Contact: e-mail: vicic@cheme.caltech.edu
extension: 4613

Office Hours: Monday 10-11AM; Tuesday 10:30-11:30AM

T.A.: Diana Smirnova
Office: Spalding 123
Contact: e-mail: smirnova@caltech.edu
extension: 4591

Office Hours: Monday 8-9PM; Tuesday 2-3PM, 8-9PM

Req'd Texts: Bird, Stewart and Lightfoot (either 1st or 2nd edition is O.K.)

On Reserve: Bird, Stewart and Lightfoot (SFL, 3 hours/overnight)

Syllabus

Week 1: Introduction
Week 2: Diffusion: Mechanisms, Estimating Coefficients
Week 3: Mass Transfer with One Independent Coordinate
Week 4: Mass Transfer with One Independent Coordinate
Week 5: Mass Transfer with More Than One Independent Variable
Week 6: Convective Mass Transfer
Week 7: Interfacial Mass Transfer
Week 8: Simultaneous Heat & Mass Transfer
Week 9: Chromatography Intro; LSER
Week 10: Advanced Chromatography; Review (Fri)

Grades

Midterm 40%
Final 40%
Homework 20%

Exams

Both exams are take-home, 3-hour exams. You are allowed to use the required text, your class notes (including any handouts) and problem sets. No other resources are allowed.

Midterm: Covers material from the first four problem sets.
Distributed at the end of class on 7 May 2008 (Wed).
Due in my office by 4PM on 12 May 2008 (Mon).
Graded exams will be returned on 16 May 2008 (Fri).

Final: Primarily covers material since the Midterm.
Distributed at the end of class on 6 Jun 2008 (Fri).
Due in my office by 4PM on 13 Jun 2008 (Fri).
Graded exams will be available on 17 Jun 2008 (Tue).
Grades will be e-mailed to you, on request, on 17 Jun 2008 (Tue).

Homework

Almost weekly – there are eight problem sets for the term. Problem sets (with suggested reading) are distributed in class every Wednesday and are due the following Wednesday by 4PM in Spalding 117 or my mailbox in Spalding 210. LATE HOMEWORK WILL NOT BE ACCEPTED.

Graded assignments will be returned on the Monday after they are due (or earlier, whenever possible).

Collaboration is allowed but each person must submit his/her own work.

Other Important Info

T.A. office hours: Please respect the teaching assistant's time and only visit her during scheduled office hours. Although, you may e-mail her at any time for help.

My office hours: I guarantee that I'll be in the office (or other specified location) during my scheduled office hours and that you'll have first rights during those time periods. Outside of office hours, I'm happy to help if I'm in my office and the door is open (or ajar). Just stop by. You can always e-mail me to make an appointment.