

CHEMICAL & BIOLOGICAL REACTION ENGINEERING – SPRING 2003

Instructors

Professor Charles L. Cooney	Room 56-469B ccooney@mit.edu	Telephone: 3-3108 Office Hours: W 12:00 - 2:00
Professor Gregory Stephanopoulos	Room 56-469C gregstep@mit.edu	Telephone: 3-4583 Office Hours: F 12:00-2:00

Teaching Assistants

Office Hours: Friday 12:00-2:00 in 66-480 & Sunday 5:00 - 7:00 in 66-369

Roger Aronow	Room 66-357	3-6478	raronow@mit.edu
Manish Bajaj	Room 66-425	3-6481	bajajm@mit.edu

Class Meetings

Lectures	Room 66-110	WF	10:00-11:00
Recitation-1 (Stephanopoulos)	Room 66-148	M	10:00-11:00
Recitation-2 (Cooney)	Room 66-160	M	1:00-2:00

Required Text: Elements of Chemical Reaction Engineering, H. S. Fogler,
Prentice-Hall, 3rd edition, 1999

Web Site: <http://web.mit.edu/10.37/www/>

Reserve Book Room: 14N-132 (for reference)

Fogler, F. S., *Elements of Chemical Reaction Engineering*, 1986
Levenspiel, O., *Chemical Reaction Engineering*
Smith, J. *Chemical Engineering Kinetics*
Steinfeld, et al., *Chemical Kinetics and Dynamics*
Bailey, J.E., *Biochemical Engineering Fundamentals*
Stephanopoulos, Aristidou and Nielsen, *Metabolic Engineering*

Course Work and Grades:

Homework (20% of grade): Weekly problem sets will be assigned approximately 7 days in advance of their due date. They will be graded and returned the following week. **Homework Policy and Honor Code:** While students are encouraged to discuss problem solutions and strategies, they are expected to work individually in arriving at solutions. **Please do each problem on separate & stapled sheets with your name on it. ALL HOMEWORK IS DUE AT THE END OF YOUR SCHEDULED RECITATION.**

Examinations (25%, 25%, 30% of grade): The first exam will be 1 – 2 hours long and will be given in the evening from 7 - 9 during the week of March 10. The second one hour exam will be given in class time. The third exam will be given during the final exam period and will be three hours.

Recitation Sections: The purpose of the recitation section is to review homework solutions, discuss problem solving strategies, answer questions concerning lecture material, discuss exam solutions and discuss additional example problems. **Homework Honor Code:** In the recitation, students can annotate their problem sets in pen (if the solutions are done in pencil) so that annotated marks are not confused with the solutions done prior to class. The solutions are due at the end of the recitation.