CHEMICAL & BIOLOGICAL REACTION ENGINEERING – SPRING 2003

Instructors
Professor Charles L. Cooney
Room 56-469B  Telephone: 3-3108
ccooney@mit.edu  Office Hours: W 12:00 - 2:00

Professor Gregory Stephanopoulos
Room 56-469C  Telephone: 3-4583
gregstep@mit.edu  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
Recitation-1 (Stephanopoulos)
Recitation-2 (Cooney)

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.