

BIOE 252
BIOENGINEERING FUNDAMENTALS
Fall Semester 2007
HZ 210 11:00-11:50 MWF

INSTRUCTOR

Dr. Ann Saterbak
Keck 109 (office), Keck 108 (lab)
713-348-6243
saterbak@rice.edu
Office Hrs: Fri 2:00 - 3:00 p.m. or by appointment

COURSE ASSIGNMENTS

Homework

One homework problem set will be assigned approximately every week. Homework will generally be handed out on Monday and due the following Monday. See BIOE 252 Homework Schedule for detailed dates and topics for the 12 standard homeworks.

Homework will be due at the beginning of class lecture (11:00 a.m.) on the day it is due. No late homework will be accepted without permission of the instructor before the homework is due. Illness and family emergencies will be dealt with on an individual basis. Grades on other late homeworks will be reduced 25% per day (including weekends). Solutions to homework problems will be made available in a binder outside Dr. Saterbak's office (Keck 109) soon after the homework is due. Individuals turning in late homeworks are expected to not consult the posted homework solutions (Honor Code). Students may not consult homework from previous years (Honor Code).

Exams

There will be two exams, tentatively scheduled to be passed out October 5 and November 14, and a final exam during the week of finals. The exams given during the semester will be take-home exams. Late exams will not be accepted. The instructor retains the right to fail a student who does not turn in either exam or the final.

Problem-Based Learning Modules

Students will participate in problem-based learning (PBL) modules throughout the semester. Students will solve three ill-structured, open-ended bioengineering problems that focus on the heart and circulatory system. Students will work into teams and meet formally with facilitation once a week; students are expected to meet outside of class as well. A written report and oral presentation will be required for each PBL module. The PBLs will count for 30% of the final grade.

See BIOE 252 Assignment Schedule and Course Schedule for details on due dates. Further details on the PBLs will be available later.

COURSE ADMINISTRATION

Problem Sessions

A problem session will be held 7:30 - 9:00 p.m. on the night before the homework is due in Duncan Hall 1046. (Usually, the problem sessions are on Sunday evenings, but Sept. 4 and Dec. 6 are exceptions.) Questions on the homework will be answered.

Textbook

The textbook for the course is Bioengineering Fundamentals, A. Saterbak, L.V. McIntire and K.-Y. San, Peason Prentice Hall, 2007, ISBN 0-13-093838-6. It is available at the campus store.

Grading Policy - The final grade will be based on the following.

- Homework 20 %
- PBLs 30 %
- Exam 1 15 %
- Exam 2 15 %
- Final Exam 20 %

Honor Code Policy

Students are encouraged to talk to each other, the teaching assistants, the instructors, or anyone else about any assignment in the course that is not specifically designated as pledged. This assistance is limited to the discussion of the problem and perhaps sketching of a solution. Students must complete their own work. Students are not allowed to look at homework problems or solutions or exams from the courses taught in 1999-2006.

Teaching Assistants

Emily Day	Jim Kretlow
713.348.2100	713.348.3025
GRBrown W201	GRBrown E207
Emily.S.Day@rice.edu	jk144152@bcm.tmc.edu
<i>Homework TA</i>	<i>PBL TA</i>

Emily will be on call for questions about the homework.

Any student with a documented disability needing academic adjustments or accommodations is requested to speak with me during the first two weeks of class. All discussions will remain confidential. Students with disabilities should also contact Disability Support Services in the Ley Student Center.