

Syllabus for BIO 361, Fall 2004

Lectures: MWF, 9:35-10:30, Javits 102

Lect.	Date	Day	Lecturer	Topic	Readings
1	Aug 30	M	HS	Overview	pp. 3-14, 21-28
2	Sep 1	W	HS	Bioenergetics	pp. 28-33, 373-383, 495
3	Sep 3	F	HS	Amino acids	Chapter 3
	Sep 6	M		LABOR DAY	
4	Sep 8	W	HS	Primary + Secondary Structure	Chapter 3
5	Sep 10	F	HS	Tertiary + Quarternary Structure	Chapter 3
6	Sep 13	M	HS	Protein Techniques I	Chapter 4
7	Sep 15	W	HS	Protein Techniques II	Chapter 4
	Sep 17	F		ROSH HASHANAH	
8	Sep 20	M	RH	Evolutionary Relationships	Chapter 7
9	Sep 22	W	HS	Enzyme Catalysis	Chapter 8
10	Sep 24	F	HS	Enzyme Kinetics	Chapter 8
	Sep 27	M		EXAM 1 LECTURES 1 TO 10	
11	Sept 29	W	HS	Enzyme Inhibition	Chapter 8
12	Oct 1	F	HS	Enzyme Mechanisms I	Chapter 9
13	Oct 4	M	HS	Enzyme Mechanisms II	Chapter 9
14	Oct 6	W	HS	Enzyme Regulation I	Chapter 10
15	Oct 8	F	HS	Enzyme Regulation II	Chapter 10
16	Oct 11	M	RH	Carbohydrates	Chapter 11
17	Oct 13	W	RH	Introduction to Metabolism	Chapter 14
18	Oct 15	F	RH	Glycolysis I	Chapter 16
19	Oct 18	M	RH	Glycolysis II	Chapter 16
20	Oct 20	W	RH	Gluconeogenesis	Chapter 16
21	Oct 22	F	RH	Introduction to Signal Transduction	Chapter 15
	Oct 25	M		EXAM 2 LECTURES 11 TO 20	
22	Oct 27	W	RH	Regulation of Glycolysis/Gluconeogenesis	Chapter 16
23	Oct 29	F	RH	Pyruvate Dehydrogenase Complex	Chapter 17
24	Nov 1	M	RH	Citric Acid Cycle I	Chapter 17
25	Nov 3	W	HS	Biological Membranes I	Chapter 12
26	Nov 5	F	HS	Biological Membranes II	Chapter 12
27	Nov 8	M	HS	Oxidative Phosphorylation I	Chapter 18
28	Nov 10	W	HS	Oxidative Phosphorylation II	Chapter 18
29	Nov 12	F	HS	Oxidative Phosphorylation III	Chapter 18
30	Nov 15	M	RH	Citric Acid Cycle II	Chapter 17
31	Nov 17	W	HS	Photosynthesis I	Chapter 19
32	Nov 19	F	RH	Photosynthesis II	Chapter 20
	Nov 22	M		EXAM 3 LECTURES 21 TO 30	
33	Nov 24	W	RH	Pentose Phosphate Pathway	Chapter 20
	Nov 25-28			THANKSGIVING BREAK	
34	Nov 29	M	RH	Glycogen Metabolism	Chapter 21
36	Dec 1	W	RH	Fatty Acid Breakdown I	Chapter 22
37	Dec 3	F	RH	Fatty Acid Breakdown II	Chapter 22
38	Dec 6	M	RH	Fatty Acid Biosynthesis	Chapter 22
39	Dec 8	W	RH	Cholesterol Biosynthesis	Chapter 26
39	Dec 10	F	RH	Integration of Metabolism	Chapter 30

FINAL EXAMINATION: Wednesday, DECEMBER 15, 8 AM – 10:30 AM. INCLUDES EXAM 4 (LECTURES 31 TO 39) AND CUMULATIVE FINAL (LECTURES 1 TO 39).

Instructors: H. Schindelin (HS) CMM 144 (2-1022)

Office Hours: Monday and Friday 1-2 pm

R. Haltiwanger (RH) LSB 470 (2-7336) (Course Director)

Office Hours: M/W/F 1-2 pm

All recitations will be held in Room 471 in the Life Sciences Building. Schedule posted on web site.

Graduate Teaching Assistants: TBA

Undergraduate Teaching Assistants: TBA

Class web site: <http://blackboard.sunysb.edu/> (username: sparky user name; password: Stony Brook ID)

Required Text Book: Biochemistry, by Berg, Tymoczko and Stryer (5th edition) plus lecture notebook

READING ASSIGNMENTS GIVEN ABOVE MAY BE CHANGED BY THE INSTRUCTOR.

EXAM QUESTIONS WILL BE BASED ON WHAT IS PRESENTED IN THE LECTURES.

RULES FOR THE COURSE

Please read the following extremely carefully and use them for future reference. We cannot overemphasize the importance of attending ALL lectures. Exam questions will be based on the material presented in the lectures.

Examinations & Grading:

There will be four exams in this course, three during regular class hours and one during finals week. The first three exams (essay questions) will cover the material in the lectures presented for that quarter of the class (see syllabus). The final exam will consist of two parts: 1) Part one (essay questions) will be on material covered in the last quarter of the course. 2) Part two will be cumulative (multiple choice) and will cover the entire course. **EVERY STUDENT MUST TAKE THIS CUMULATIVE PART OF THE FINAL EXAM.** The final grade for the course will be determined **EXCLUSIVELY** on the results of the examinations in the course. The cumulative part of the final exam will count for 25% of the final grade. The lowest grade amongst the four partial exams will be dropped. Each of the three remaining exams will count for 25% of the final grade.

The following rules must be observed during all exams:

1. Display your student ID on your desk throughout the exam.
2. Leave at least one empty seat between you and your neighbor.
3. Leave all books, notes, papers etc., by the side of the room.
4. You may not leave the exam hall for any reason until you have completed your exam.

During Fall 2003, the class average at the end of the semester was 64% and the grade distribution was as follows: >83 A; >81 to <83 A-; >69 to <81 B-,B,B+; >56 to <68 C-,C,C+; >49 to <56 D and <49 F. These numbers are for your guidance only. Obviously this year's grades will depend on the class average at the end of the semester. Use the above numbers and evaluate your own performance.

Makeup exams:

There will be **ABSOLUTELY NO MAKEUP EXAMS** for the four partial exams. If you miss any one of the partial exams, your grade for that exam will be zero and will become your dropped grade. If you miss more than one partial exam, or if you miss the final cumulative exam, you **MAY** be entitled for a makeup exam provided you have done the following: You must submit valid documents for **EACH** missed exam **WITHIN ONE WEEK OF THE MISSED EXAM** to either instructor (Profs. Haltiwanger or Schindelin). Examples of acceptable documents include a physician's note if you were ill, a letter from a clergyman or other person officiating at a funeral, or a letter from a medical school for which you had an interview. Although documents are not required if only one of the four partial exams is missed, you should nevertheless file such documents with us in the event that unforeseen circumstances result in your missing a second exam.

Cheating and regrading:

The university rules permit anyone caught cheating to be failed in the course. We have failed students in the past for cheating. Please note that we routinely copy a large fraction of the exams before returning them to you. If you believe your exam was graded unfairly, you must leave your exam with Prof. Schindelin within **ONE WEEK** after the exams are returned in the class. On a separate piece of paper, write clearly the question or questions that you want regraded and reasons why you think they deserve to be regraded. **DO NOT WRITE ANYTHING ON THE EXAM ITSELF. YOUR ENTIRE EXAM WILL BE REGRADED BEFORE IT IS RETURNED TO YOU. YOU MAY GAIN POINTS ON ONE QUESTION, BUT MAY LOSE POINTS ON ANOTHER QUESTION. THINK CAREFULLY BEFORE SUBMITTING YOUR EXAM FOR REGRADING.** No exam will be regraded if not submitted within one week after being returned to the class.

Disabled students and student athletes:

If you are disabled and need a disability-related special consideration, please see the Disability Support Services in 128 Educational Communications Center (Phone: 2-6748 or 2-6749).

If you are an athlete and will miss exams due to travel, you must give us your schedule with potential conflicts within the first week of classes so that we can make alternative arrangements. If we do not receive this information, we will not consider travel with a team a valid excuse for missing an exam.