Fall, 2005
TTh 8:00-9:15 am, 308 Venable Hall
Instructors: Pielak, Redinbo, & Grasso

Chemistry 131
Macromolecular Structure and Metabolism

Textbook *Biochemistry*, Voet & Voet, 3rd Ed.

Course Schedule

Professor Redinbo: *Office Hours*		Wednesdays, 10:30-11:30am, C748 Kenan
Aug. 30	**Protein Structure I**	Chpt. 8
Sept. 1	**Protein Structure II**	Chpt. 8
Sept. 6	**Protein Folding and Dynamics**	Chpt. 9
Sept. 8	**Enzymes I**	Chpt. 10
Sept. 13	**Enzymes II**	Chpt. 15
Sept. 15	**Enzymes III**	Chpt. 15, 32.6
Sept. 20	**DNA Structure I**	Chpt. 29
Sept. 22	**DNA Structure II**	Chpt. 29, 34.1
Sept. 27	**FIRST EXAM**---in class	

Professor Pielak: *Office Hours*		Fridays 5:00 – 6:00 Venable 225
Sept. 29	**DNA Replication**	Chpt. 30
Oct. 4	**DNA Replication**	Chpt. 30
Oct. 6	**DNA Repair**	Chpt. 30
Oct. 11	**DNA Repair/Recombination**	Chpt. 30
Oct. 13	**Transcription**	Chpt. 31
Oct. 18	**Transcription**	Chpt. 31
Oct. 20	**Fall Break**	
Oct. 25	**Transcription**	Chpt. 31
Oct. 27	**Review**	
Nov. 1	**SECOND EXAM** ---in class	

Mr. Domenick Grasso: *Office Hours*		by appointment
Nov. 3	**Capping & mRNA polyadenylation**	Chapter 31
Nov. 8	**Mechanism of RNA splicing**	Chapter 31
Nov. 10	**Splicing & other post-transcriptional events**	Chapter 31
Nov. 15	**Genetic code, structure & aminoacylation for tRNA**	Chapter 31-32
Nov. 17, 22	**Ribosome structure & assembly**	Chapter 32
Nov. 25	**Thanksgiving**	
Nov. 29	**Mechanism of protein biosynthesis**	Chapter 32
Dec. 1	**Review**	

Dec. 6, 8 **Semester Review**

THIRD EXAM & FINAL EXAM ***Saturday, December 17, 8:00-11:00 am, 308 Venable***

Grading			
	Amino acid Quiz	Thursday, September 1	5%
	First Exam:	Tuesday, September 27	20%
	Nucleic Acid Quiz	Thursday, September 29	5%
	Second Exam:	Tuesday, November 1	20%
	Third Exam & Final:	Saturday, December 17, 8:00-11:00 am	50%

There are no make-up or early examinations.
Letter grades are assigned as described below.

undergraduates

A	>[average (av) + 1.75 x standard deviation (sd)]
A-	>[av + (1.50 x sd)]
B+	>[av + (1.25 x sd)]
B	>[av + (0.75 x sd)]
B-	>[av + (0.50 x sd)
C+	>[av + (0.25 x sd)]
C	>[av - (0.50 x sd)]
D	>[av - (1.50 x sd)]
F	<[av - (1.50 x sd)]

graduate students

H	> [av + (1.75 x sd)]
P+	>[av + (1.50 x sd)]
P	>[av - (0.50 x sd)]
L	>[av - (1.50 x sd)]
F	<[av - (1.50 x sd)]

Policy adopted by the faculty of the Department of Chemistry on September 9, 1977:

"Since all graded work (including homework to be collected, quizzes, papers, mid-term examinations, final examinations, research proposals, laboratory results and reports, etc.) may be used in the determination of academic progress, no collaboration on this work is permitted unless the instructor explicitly indicates that some specific degree of collaboration is allowed. This statement is not intended to discourage students from studying together or working together on assignments which are not to be collected."