**5 April 2001**

# ABio 366: Biological Chemistry II
## Tu/Th 9:45-11:05 am, ES 242
## *Re-re-revised* Course Syllabus, Spring 2001

| Instructors: | Office hours: | Room: |
|---|---|---|
| **Dr. Caro-Beth Stewart**<br>**Associate Professor** | **Tu/Th 11:30-12:00; We 3:00-4:00 or by appointment (at class)** | **Biology 327 (this is my office; please do *not* come to my lab!)** |
| **Mr. Tom Mennella**<br>**Teaching Assistant** | **Monday 11:00-1:00 or by appointment** | **Bio 353 (lab) or 309 (office)** |

| Date | Lecture Topic | Reading Assignment* |
|---|---|---|
| Jan. 23 | Carbohydrates review; Glycogen metabolism | (8); 15.1-15.3 |
| Jan. 25 | Glycogen metabolism | 15.1-15.3 |
| Jan. 30 | Glycogen metabolism; Gluconeogenesis, etc. | 15.4-15.5 |
| Feb. 1 | Lipid review; Fatty acid catabolism | (9); 9, 19 |
| **Feb. 6** | **Dr. Richard Losick: "A four-dimensional view of the bacterial cell"** | |
| Feb. 8 | Fatty acid catabolism; Lipid biosynthesis | 19 |
| Feb. 13 | Lipid biosynthesis; | 19 |
| **Feb. 15** | **TEST #1 (through lipids)** | |
| Feb. 20 | Amino acids; Amino acid metabolism | (4); 20 |
| Feb. 22 | Amino acid metabolism | 20 |
| Feb. 27 | NO CLASS (Break) | |
| Mar. 1 | NO CLASS (Break) | |
| Mar. 6 | SNOWED OUT | |
| Mar. 8 | Nucleotide review; Nucleotide metabolism | (3); 22 |
| **Mar. 13** | Nucleotide metabolism (Tom Mennella lectures) | 22 |
| **Mar. 15** | DNA Structure; DNA replication (Tom Mennella lectures) | 23, 24 |
| Mar. 20 | DNA replication; DNA sequencing; **ABSTRACTS DUE** | 24 |
| **Mar. 22** | **TEST #2 (includes material from Dr. Losick's lecture)** | |
| Mar. 27 | DNA repair; Mutagens and mutation | 24 |
| **Mar. 29** | Transcription (Tom Mennella lectures) | 25 |
| **Apr. 3** | Transcription (Tom Mennella lectures) | 25 |
| Apr. 5 | mRNA processing; The genetic code | 25; 26.1 |
| Apr. 10 | NO CLASS (Break) | |
| Apr. 12 | NO CLASS (Break) | |
| Apr. 17 | tRNA charging and pairing | 26.2-26.3 |
| **Apr. 19** | Polypeptide synthesis (Mennella lectures); | 26.4 |
| Apr. 24 | Polypeptide synthesis; post-translational modification | 26.4 (+) |
| **Apr. 26** | **TEST #3** | |
| **May 1** | **Dr. Stewart gives a research talk (attendance advised!) PAPERS DUE** | |
| **May 3** | **Student presentations (attendance mandatory)** | |
| **May 8** | **Student presentations (attendance mandatory)** | |
| **May 17** | **Cumulative Final Examination, Thursday, 17 May 2001, 1:00-3:00 pm in ES242.** | |

Any material covered this semester, including student presentations, may be on the final exam. The final counts 1/4 of semester grade. Another 2/4 of the semester grade is the average of your two best TEST scores. Make-up exams are given only under extraordinary circumstances. The paper + presentation (and your participation during presentations) counts the final 1/4 of your grade. Grading is on a standard scale (*i.e.*, 90-100% = A, etc.); we do not "curve" the grades.

*Chapters from *Fundamentals of Biochemistry* by Voet, Voet & Pratt (1999); those in parentheses are suggested for review. Changes and/or additional assignments may be given during class.

**Course web site: http://www.albany.edu/faculty/cs812/Bio366/Bio366.html**