

MWF, 9:30-10:20, Geology Bldg 308

Instructor: Steve Scheiner, Chemistry Building 273

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- Office Hours:** M, Th, 10:30 - 11:20; other times by appointment.
- Text:** “Biophysical Chemistry”, by J. P. Allen, Wiley-Blackwell Pub.
- Content:** The course will cover topics presented in the 20 chapters of the text, as well as supplementary information discussed in class. Students are encouraged to read the chapters and work the practice problems in the text.
- Grading:** Students will be evaluated in a number of ways.
- In-Class Exams:** 300 points.
There will be four 50-min exams. Each student may drop the lowest of their four grades. Students who take only 3 exams will have all three grades count. Students missing more than 1 exam will receive a grade of 0 on any missed in excess of 1.
- Quizzes:** ~120 points
Some lecture classes will end with a short quiz. These quizzes may not be announced in advance, so students should come prepared to take a quiz each day (please bring a calculator). There will be roughly 13 such quizzes during the semester, each worth 10 points. Each student taking all quizzes will be able to drop their lowest grade.
- Problem Sets:** ~160 points
Students will be required to turn in problem sets during the semester, approximately 8 such sets. Each will be worth 20 points. No grades will be dropped.
- Final Exam:** 200 points. This exam will be comprehensive, covering material from the entire course. It is scheduled for **Monday, Dec 7, 9:30- 11:20 AM.**
- Learning Objectives** Students will learn to do the following:
Use thermodynamic reasoning and quantities to explain biological processes
Apply kinetic equations to predict rates of reactions
Explain the fundamental nature of bonding between atoms and molecules
Explain the fundamentals underlying biochemical spectroscopy
- Extra Help** In addition to meeting with the instructor privately, students will have access to a University Teaching Fellow (Cody Tramp) who will offer help and tutorials.
- Assessment** Assessment of student learning will be performed via gain-score exams.

In accordance with the Americans with Disabilities Act, reasonable accommodation will be provided for all persons with disabilities in order to ensure equal participation in Chemistry 5070. A student who requires an accommodation must contact the Instructor. The disability must be documented by the Disability Resource Center. In cooperation with the Disability Resource Center, reasonable accommodation will be provided for students with Disabilities. Course material may be requested in alternate formats through the Disability Resource Center. The administration of Chemistry 5070 will adhere strictly to the academic regulations stipulated in the most recent USU General Catalog. The complete code of Policies and Procedures for Students can be viewed at:

<http://www.usu.edu/student-services/studentcode/>

CALENDAR**NOTE: ALL DATES ARE APPROXIMATE AND SUBJECT TO CHANGE**

August

24 Chap 1	26 Chap 2	28 Chap 2
31 Chap 3	//////////	//////////

September

//////////	2 Chap 3	4 Chap 4
7 <i>Labor Day</i>	9 Chap 4	11 Chap 5
14 <i>Exam 1</i>	16 Chap 5	18 Chap 6
21 Chap 6	23 Chap 7	25 Chap 7
28 Chap 8	30 Chap 8	//////////

October

//////////	//////////	2 Chap 9
5 <i>Exam 2</i>	7 Chap 9	9 Chap 10
12 Chap 10	14 Chap 11	15 Chap 11 (<i>Thurs</i>)
19 Chap 12	21 Chap 12	23 Chap 13
26 <i>Exam 3</i>	28 Chap 13	30 Chap 14

November

2 Chap 14	4 Chap 15	6 Chap 15
9 Chap 16	11 Chap 16	13 Chap 17
16 <i>Exam 4</i>	18 Chap 17	20 Chap 18
23 Chap 18	Thanksgiving	Thanksgiving
30 Chap 19	//////////	//////////

December

//////////	2 Chap 20	4 Chap 20
7 <i>Final Exam</i>		