



Sean M. Kerwin

COLLEGE OF PHARMACY
THE UNIVERSITY OF TEXAS AT AUSTIN

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– 1/20/09

Macromolecular Chemistry & Biotechnology (PHR 251C)

Schedule: Lectures, Tu/Th 2-3 p.m. in PHR 2.110
Optional: Weekly Problem-Solving Sessions, Fri 11-12; TBA

Faculty: Dr. Sean Kerwin (course coordinator) BME 6.202C
Dr. Kevin Dalby BME 6.202B

Teaching Assistants: Brad Gilbreath
Jamison Huddleston
Ke-Yi Lin
Meilan Wu

Course Texts: 1. Campbell and Farrell “Biochemistry,” 5th Edition (required).

Note: Exam questions may come from assigned text readings.

Web Resources: 1. The Blackboard® **web site** for this course is located at:

<http://courses.utexas.edu/>

On login (with your UTEID) you will see a list of Blackboard websites for your current courses. Click on *Sp06 Macromolecular Chemistry & Biotechnology* to access the site. You are strongly encouraged to visit this site for additional resources associated with the courses (electronic quizzes, powerpoint presentation, previous exams, contacting faculty by Email, electronic versions of suggested and **required** readings). Messages sent to you via the Blackboard Website (Email and Announcements) are **official** mechanisms for communication in this course; be sure you understand the College Email policies.

2. The **Discussion Board** for this course is also on the Blackboard website. The Discussion Board will be used for posting questions, exchanging class information, and making class announcements.

3. You may also contact faculty members directly via **phone** or **Email**.

Dr. Sean Kerwin (471-5074) skerwin@mail.utexas.edu

Dr. Kevin Dalby (471-9267) dalby@mail.utexas.edu

Course Policies

1. Examinations:

There will be three 1-hr summary examinations throughout the semester, plus a comprehensive final administered during the Final Exam period. Exams will be given according to the following schedule:

Exam Date & Time	Location	Coverage	Faculty	Points [#]
Tues, March 10, 2-3 pm*	2.110	Lecture 1-14	Dalby	100 pts
Thurs, May 7, 2-3 pm*	2.110	Lectures 15-28	Kerwin	100 pts
Final Exam	TBA	Lectures 1-28	Kerwin Dalby	100 pts

Points for Exams 1-2 are proportional to actual lectures given, and may be adjusted accordingly.

(*may be changed to an evening exam by consensus of the class)

The format for the exam is entirely the prerogative of the faculty. ***Students must arrive on time for examinations.*** All instructions and corrections will be made at the beginning of the examination period and will not be repeated. Semester exams will begin promptly at the designated hour and will be picked up after exactly 1 hr. The final examination will last three hours. Students arriving after any students have completed the exam and left the room may not be allowed to sit for the exam and may receive a score of zero.

No allowances will be made for an exam being missed, other than documented illness or emergency. The student must contact the course coordinator for confirmation ***prior to the exam.*** If permission is granted to delay the exam, it is the student responsibility to complete the College Form titled "Student Request for Alternate Exam Time" for consideration and ***final approval*** by the Faculty member. In this event, the nature of the make-up will be at the discretion of the faculty (oral, written, increased weighting on the final, etc.). An unexcused absence from an exam may result in a grade of "zero" for that exam.

If scantron sheets are used, the grading of objective questions will be based upon the scantron sheets turned in, and ***not*** on answers written on the exam papers. After the exams have been graded and an item analysis performed (Measurement & Evaluation Center), questions may be discarded at the discretion of the Course Coordinator before arriving at final grades.

2. Return of Exams; Posting Class Scores & Keys:

All summary examinations will be returned to the students within a reasonable time after taking the exam. Following the grading of each exam, score statistics and the exam key will be posted on a bulletin board outside PHR 4.202. An announcement will be made via the listserv that the key has been posted, that grades have been posted on Blackboard,[®] and that exams are available for return.

3. Post-Exam Remarks and Reconsideration Requests:

If there is a disagreement over the answer to a specific question, the student should present his/her exam plus a written explanation (with appropriate documentation) to the instructor within 72 hours of the listserv announcement of the posting of exam results & key as described above. Documentation may include statements from textbooks, handouts, packets, or current scientific reprints; lecture notes are *not* authoritative documentation. The explanation must be clear, rational, and concise. (This policy does not apply to addition or other grading errors).

4. Final Exam Re-Examination Policy: The re-examination policy for this course will follow the General Information Catalog (GIC) policy for the University, which reads as follows: "Only a student who has a grade average of at least a C on all class work and lab work submitted before the final exam may request a temporary delay of the final course grade because he or she failed the final examination, which is the examination given during the final exam period as printed in the official examination schedule. If the petition is denied by the instructor (i.e., course coordinator), the student's final course grade will remain as originally determined. If the petition is granted by the instructor (i.e., course coordinator), the grade on the reexamination will be **substituted** for the grade on the original exam in determining the student's final course grade, provided the student earns at least a C on the reexamination. **If the grade on the reexamination is less than a C, a final course grade of F must be recorded.**"

5. Course Grading:

A =	90 - 100%
B =	80 - 89%
C =	70 - 79%
D =	65 - 69%
F =	Below 65%

This scale may be curved more leniently in the final analysis of grades at the discretion of the instructors.

6. Academic Dishonesty:

The "Statement on Scholastic Dishonesty of the College of Pharmacy" reads as follows: "Pharmacy practitioners enjoy a special trust and authority based upon the profession's commitment to a code of ethical behavior in its management of client affairs. The inculcation of a sense of responsible professional behavior is a critical component of professional education, and high standards of ethical conduct are expected of pharmacy students. Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including failure of the course involved and dismissal from the college and/or the University. Since dishonesty harms the individual, fellow students, and the integrity of the University and the College of pharmacy, policies of scholastic dishonesty will be strictly enforced in this class".

Students are expected to work independently on all examinations and on all laboratory write-ups (unless specifically instructed otherwise). Any student caught cheating will be given a "zero" on the assignment (minimum). Any student suspected of dishonesty will be reported to the Dean of the College of Pharmacy and to the Dean of Students, as per University regulations. Students are expected to have read and understood the current issue of the General Information Catalog published by the Registrar's Office for information about procedures and about what constitutes scholastic dishonesty. Students are also expected to be familiar with and abide by the College Honor Code, and will be expected to sign the Honors Statement at the end of each examination.

7. Students with Disabilities

The University of Texas at Austin provides upon request appropriate academic accommodations for qualified students with disabilities. All University rules concerning accommodations must be followed, including the student arranging for special accommodations *prior* to *each* examination. In the absence of such *prearrangement*, the student will be expected to take the exam with the rest of the class at the regularly scheduled exam time. For more information, contact the Office of the Dean of Students at 471-6259, 471-4641 TTY.

Schedule of Molecular Chemistry and Biotechnology (PHR 251C) (Tentative)

1/20/09

Lecture	Date	Topic(s)
1	Jan 20	Plasma Lipoproteins (<i>Dalby</i>)
2	Jan 22	Nitrogen Metabolism & Nitrogen in the Biosphere (<i>Dalby</i>)
3	Jan 27	Feedback Inhibition & Amino acid synthesis (<i>Dalby</i>)
4	Jan 29	Essential Amino Acids & Amino Acid Catabolism (<i>Dalby</i>)
5	Feb 3	Purine Synthesis/Catabolism & Pyrimidine Metabolism (<i>Dalby</i>)
6	Feb 5	Connections Among Metabolic Pathways (<i>Dalby</i>)
7	Feb 10	Nutrition and Biochemistry (<i>Dalby</i>)
8	Feb 12	Hormones and Second Messengers (<i>Dalby</i>)
9	Feb 17	Hormonal Control in Metabolism & Insulin (<i>Dalby</i>)
10	Feb 19	(<i>Dalby</i>)
11	Feb 24	(<i>Dalby</i>)
12	Feb 26	(<i>Dalby</i>)
13	March 3	(<i>Dalby</i>)
14	March 5	(<i>Dalby</i>)
Exam 1 on March 10 Covering Lectures 1-14 (<i>Dalby</i>)		
15	March 12	Nucleic Acid Structure – DNA and RNA (<i>Kerwin</i>)
Spring Break March 16-20		
16	March 24	Biosynthesis of Nucleic Acids – DNA (<i>Kerwin</i>)
17	March 26	DNA Repair (<i>Kerwin</i>)
18	March 31	Transcription – The Biosynthesis of RNA (<i>Kerwin</i>)
19	April 2	Prokaryotes – Transcriptional Regulation
20	April 7	Eukaryotes – Transcription and Its Regulation (<i>Kerwin</i>)
21	April 9	Eukaryotes – Transcription and Its Regulation (<i>Kerwin</i>)
22	April 14	Posttranscriptional RNA Modifications (<i>Kerwin</i>) (<i>Kerwin</i>)
23	April 16	Protein Synthesis – Prokaryotes (<i>Kerwin</i>)
24	April 21	Protein Synthesis – Eukaryotes (<i>Kerwin</i>)
25	April 23	Protein Synthesis – Eukaryotes (<i>Kerwin</i>)
26	April 28	Post-Translational Protein Modifications (<i>Kerwin</i>)
27	April 30	Protein Folding/Degradation (<i>Kerwin</i>)
28	May 5	Biotechnology/Recombinant DNA (<i>Kerwin</i>)
Exam 2 on May 7 covering Lectures 15-28 (<i>Kerwin</i>)		