

Lecturers: Mike Meighan from the Department of Molecular and Cell Biology. There may be additional guest lecturers.

Lecture: Lectures are Monday and Wednesday from 11-12 PM in 1 Pimentel. Please read the assigned readings in Campbell and the lab manual **prior** to the lecture.

Contact information/office hours: Mike Meighan. 2-4110, 2088 VLSB, mailbox outside 2088 VLSB, e-mail is {Bio1ACoordinator@berkeley.edu}. Scheduled Office hours are M 3-4, T 2-3, W 3-4 and by appointment. I am available for advice on study habits, techniques, and on matters of scheduling, laboratory operations, exams, etc..

Graduate Student Instructors: The GSI's will instruct the laboratory and discussion sections. Messages may be left in your GSI's mailbox in 2084 VLSB. Their office hours have yet to be arranged. You will be provided a list of GSI office hours on 6/29.

TIME TABLE

1. Lectures begin Monday 6/26 and end on Monday 8/14. Lectures are held in 1 Pimentel on Monday and Wednesday from 11-12 PM. Handouts will be available for downloading on the Biology 1A website. Black lightning note taking service is authorized. For more information you can check their website. <http://blln.securesites.com/> Webcasts of previous semesters are available at <http://webcast.berkeley.edu/courses/>.
2. **All enrolled students must fill out the enrollment confirmation form by 4 PM on Monday June 26th. The form is located at our website, <http://mcb.berkeley.edu/courses/bio1a>**
2. **Adding:** All students wanting to add must fill out the add form available at our website. Look under announcements for Summer 2006. You must submit your request by **4 PM on June 26th**.
3. **Switching sections:** After filling out the confirmation form there will be a link to submit a section change form. Very few changes will be permitted, only to the night labs. I will contact you via email or phone regarding your request. If you do not hear from me assume you did NOT get to change your section.
4. **LABORATORY** begins Wednesday June 28th and will cover Safety and Equipment Use. See pages 1-20,23-31 of your Laboratory Manual which you must read before your lab. If you can not attend, contact Mike Meighan **beforehand**. **Pre-labs are due at the START of lab.**
5. Lab exams are scheduled as follows: First lab exam, **July 27th**. Room(s) to be arranged. Your second lab exam will be held on your assigned lab day, within your three hour period (**August 14th or 15th**). There are no make-up lab exams, nor may you switch from your assigned section. Exam handouts will be given for each exam.
6. In the case of disruption of an exam (fire alarm, bomb threat, etc.) alternative arrangements have been made. These may include moving the exam to another location, and/or extending the time, and/or arranging an alternative exam date or format.
7. **Attendance:** You are required to attend your normally scheduled lab. However it may be possible to reschedule lab during the same week. It is not possible to reschedule your second lab exam. To reschedule you must see or e-mail Mike Meighan. **NOTE: When papers, etc. are returned it is your responsibility to pick them up. If you do not attend, then you must contact your GSI and get the papers from them, at their convenience.**

LAB MATERIALS

Required textbook: Campbell, **Biology**, 7th edition.

Required Lab Manual: The required lab manual (2005/2006) is available at ASUC and Ned's. This is a new edition and you cannot use previous editions.

Required pre-labs and worksheets. These are available on our website or at Replica Copy, at 2140 Oxford. It is actually much cheaper and faster to buy a set instead of printing them.

Exam Reader: An exam reader with exams from past semesters and summer is available at Replica Copy.

Required Course Reader: Handouts and images will be available on our website. Usually the Monday and Wednesday lectures will be posted by the previous Friday by 5 P.M.

GRADING PROCEDURE: Grades will be determined numerically as follows:

Laboratory & Discussion as follows:		
Lab Exam 1, 7/27 in lecture (covering labs 1 - 6)		90 pt's.
Lab Exam 2, 8/14 or 15 (covering labs 7 - 11)		75 pt's.
Lab Quizzes - 5 points given at the start of each lab (11 labs x 5 pts). The lowest score will be dropped, hence 10 X 5.		50 pt's.

Total: 215 pt's.

Changes affecting the point distribution, the reading schedule, or other aspects of the syllabus may occur during the semester. We will inform you of any changes.

Grades are based upon the points that you **EARN** (not needs or wants). Guaranteed grades are:

A (some form of an A)	100-90%	D (some form of a D)	69-60%
B (some form of a B)	89-80%	F	59-00%
C (some form of a C)	79-70%		

However, in the event that some examinations have been unusually difficult, the cut offs for letter grades may be lowered (but only by a few percentage points, and as deemed necessary). Historically around 50% of the class **EARN** A's and B's.

LAB GRADE ADJUSTMENTS: Lab exam 2 and the quiz scores will be adjusted as necessary. This will insure that no section has an advantage (higher quiz scores or higher lab exam 2 scores) nor has a disadvantage (lower quiz scores or lower lab exam 2 scores). They will be adjusted based upon lab exam 1 scores and will be adjusted to the **easiest** of the sections. More information about this is available on our website. After making the adjustments the total points is then determined for each student. We look at 90% of the total points and see what % of the students have earned a guaranteed A+/A/A-. If there are fewer than about 20% we then typically lower the number of points required for some form of an A (since it is the lower end it would be A-). We continue to do that for each guaranteed grade range, B, C and D. If need be, we lower the total number of points necessary for a certain grade. We usually give out about 20% A's, 30% B's, 20% C's, 10% D's and 10% F's. We then go back and make the exact cut-offs for each form of a grade (eg. C+, C, C-). We then look to at each student's score to determine if they are within 3 points of the next higher grade. If so then we determine if they should be "bumped" to the next higher grade. The most important criteria for this "bump" in the summer is attendance and participation in lecture/lab/discussion (pre-labs/worksheet averages). We only consider bumps if you are within 3 points. On average about 50% of the students who are within 3 points get bumped, 50% do not. Note that the class is, in a sense, curved. But we would rather that you strive to earn the guaranteed percentages, instead of us having to lower the percentage cutoffs for given grades.

I GRADES: In keeping with University regulations, the grade of "incomplete" is assigned to a student only if the student has completed at least one-half of the material with a passing grade of C or better and the student presents documented medical evidence of their inability to complete the course on schedule. The student assigned an I grade in Biology 1A must complete the work before the first day of classes in the Spring Semester of 2007, without including the course for units on the study list, or the I lapses to an F.

CHEATING: The rare student found cheating in the course will be reported to the University for review for dismissal. An automatic 0 will be given on that assignment. **Cheating is not tolerated.** This includes ALL work—including pre-labs! Students repeating the class must do the work this semester and cannot turn in work from previous semesters. **DON'T CHEAT, it isn't worth it because we will take the time to submit the case to the student conduct office.**

RECOMMENDATIONS: It is probably better for you to obtain letters from upper division classes, in the future, but we are willing to write letters.

HOW TO DO WELL

1. Come to lecture and take notes. Review them. Read the assigned reading before lecture. Attending lecture does not replace reading the lab manual and the textbook.
2. Keep up with the material. Seek help if needed.
3. Clarify topics you do not understand by
 - a. Coming to office hours and asking questions.
 - b. Forming a study group.
 - c. Doing the reading.
 - d. Emailing questions. This is probably the least effective method.
4. Use the exam reader, making sure you understand the reasoning behind the answers.
5. Be prepared for lab and be prepared to think.

BIOLOGY 1A STUDY RESOURCES

Please take advantage of these resources. Additional opportunities such as reviews may also be held. Further information is available in the lab manual and the Exam Reader.

Office Hours—they typically are very helpful.

Student Learning Center (SLC, 189 Chavez Student Center): The SLC may offer student-led study groups and tutoring. See their website for more information (slc.berkeley.edu).

STUDY GROUPS: These are usually a great way to learn. I encourage you to form study groups, either within your lab or with students from other sections.

Reading: It helps to read before the lab lecture. The lab lecture does not replace reading.

Tutors (fee): Formal tutoring (variable fees) from individuals may be available. Contact Mike.

URLs: <http://mcb.berkeley.edu/courses/bio1a>, <http://webcast.berkeley.edu/courses/>

Lab Times and Room Locations (all in VLSB)

Lab #	Time	Room	
101	T/Th 9:00-12:00 PM	2095	Lew
102	T/Th 9:00-12:00 PM	2097	Takata
103	T/Th 2:00- 5:00 PM	2095	Weitze
104	T/Th 2:00- 5:00 PM	2097	Dutton

Lab #	Time	Room	
105	M/w 2:00- 5:00 PM	2095	Lew
106	M/w 2:00- 5:00 PM	2097	Takata
107	M/W 6:30- 9:30 PM	2095	Weitze
108	M/W 6:30- 9:30 PM	2097	Dutton

Contact Information

Lew, Helen	helenlew@berkeley.edu	Weitze, Scott	sweitze@sfsu.edu
Takata, Steve	Steve_takata@yahoo.com	Dutton, Marianne	nefarious_md@yahoo.com

Note: You must read the assigned reading in the lab manual and also the assigned reading in Campbell. Lab lecture does not replace reading the lab manual.

<i>Date</i>	<i>Lect #</i>	<i>Lecture Topic</i>	<i>Reading Campbell</i>	<i>Reading Lab Manual</i>
6/26	1	First Lecture – introduction.	No Reading.	No lab.
6/28	2	<i>Safety, equipment</i> (pages 1-31).	7 th ed. p. 26-27, 86-89, 94-99, 296-298	Lab 1: Safety and Equipment. Pages 1-20, 23-31.
7/3		<i>NO Monday lecture.</i>	No lab.	No lab.
7/5	3	<i>Ligation and cells</i> (pages 33-56)	7 th ed. Ch. 6.	Lab 2: Ligation reaction and Cells. Pages 21-22, 33-56.
7/10	4	<i>Transformation & Enzymes</i>	7 th ed. 68-74, 77-86 & Ch. 8.	Lab 3: Enzymes and Transformation. Pages 33-39, 57-75.
7/12	5	<i>Complementation & Photosynthesis</i>	7 th ed. Ch. 10.	Lab 4: Complementation and Photosynthesis. Pages 77-96.
7/17	6	<i>Genetics and Molecular Biology I</i>	7 th ed. Chs. 12-17, 346-350, Ch. 20.	Lab 5: Genetics & Mol. Biol. I. Pages 97-114.
7/19	7	<i>Genetics and Molecular Biology II</i>	7 th ed. Chs. 12-17, 346-350, Ch. 20.	Lab 6: Genetics & Mol. Biol. II Pages 115-134.
7/24	8	<i>Invertebrates I</i>	7 th ed. 633-661, 820-827, 831-833, 844-855, 867-871, 884-887, 922-933, 1011-1012.	Lab 7: Invertebrates I. Pages 135-156.
7/26	9	<i>Q & A (if you want)</i>		
7/27 Th				Lab Exam 1 = 7/27. 12:30-2.
7/31	10	<i>Invertebrates II.</i>	7 th ed. 656-669.	Lab 8: Invertebrates II. Pages 157-168.
8/2	11	<i>Rat Anatomy.</i>	7 th ed. 855-862, 869-878, 886-889, 891-894, 931-936, 968-973.	Lab 9: Anatomy. Pages 169-178.
8/7	12	<i>Chordate Diversity</i>	7 th ed. 671-701.	Lab 10: Diversity. Pages 191-206.
8/9	13	<i>Reproduction and development</i>	7 th ed. 968-975, 987-1001.	Lab 11: Reproduction. Pages 179-190.
8/14	14	<i>Q & A (if you want)</i>		Lab Exam II –during your lab. During your 3 hour lab.

Reading assignments are from Campbell, 7th edition and the 2005-2006 lab manual.

Lab: Daily lab quizzes worth a total of 50 pts (11 X 5 pts minus the lowest score) will be given at the start of each lab. Pre-labs are required in order to do lab. Worksheets are also required. Lab exam 1 worth 90 points will be held from 12:30-2 PM on Thursday July 27th. It will cover labs 1-6. Lab exam 2, worth 75 pts, covers labs 7– 11 and will be given in your lab, either Aug. 14th or 15th.