

Lecturers: Dr. James Baxter and Dr. Carol Gilson. There may be additional guest lecturers. Dr. Baxter's contact information is myxa2@comcast.net and phone is 510-642-4110. Dr. Gilson's contact information is cgilson@samuelmerritt.edu and phone is 510-642-4110. Erol Kepkep will handle administrative issues. His email is bio1a@berkeley.edu.

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.

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 Monday 7/2.

TIME TABLE

1. Lectures begin Monday 6/25 and end on Monday 8/13. 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 (Friday noon for the Monday lecture, Tuesday noon for the Wednesday lecture). Black lightning note taking service is authorized although they may not offer the service. 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. **Adding:** All students wanting to add must fill out the add form available at our website. Look under announcements for Summer 2007. You must submit your request by 3 PM on June 25th. You will be contacted via email or phone. If you don't hear from us, you can assume we were unable to add you.
3. **Switching sections:** From our website you can subscribe to a list serve to find another student to switch with. Directions are on our website. They must be exact switches. You must switch BOTH lab and discussion sections, not just one of them. Once you have found an "exact switch" the two of you need to contact Erol Kepkep in 2098 VLSB or the two of you must email him at: bio1a@berkeley.edu.
4. **LABORATORY** begins Wednesday June 27th and will cover Safety and Equipment Use. See pages 1-28 of your Laboratory Manual that you must read before your lab. If you cannot attend, contact Erol at bio1a@berkeley.edu **beforehand**. **Pre-labs are due at the START of lab.**
5. Lab exams are scheduled as follows: First lab exam, **July 26th (12:30-2 PM)**. Room(s) to be arranged. Your second lab exam will be held on your assigned lab day, within your three-hour period (**August 13th or 14th**). 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. It may be possible to reschedule lab when absolutely necessary. It is not possible to reschedule your second lab exam. To reschedule you must e-mail bio1alab@berkeley.edu. **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 (2006/20067) 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, 7/26 in the 12:30 lecture (covering labs 1 - 6)		100 points
Lab Exam 2, 8/13 or 14 (covering labs 7 - 11)		84 points
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 points

Total: 234 points

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 are 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 2008, without including the course for units on the study list, or the I lapses to an F.

CHEATING: The rare student found cheating 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 your GSI.

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

Lab Times and Room Locations (in VLSB)

Lab #	Time		email	Room	UGSI
101	M/w 2:00– 5:00 PM	Lew, Helen	helenlew@berkeley.edu	2095	Chen,Ritchie
102	M/w 2:00– 5:00 PM	An, Dahlia	dahlia@berkeley.edu	2097	Podgornaia, Anna
103	M/W 6:30– 9:30 PM	Takata, Steve	Steve_takata@yahoo.com	2095	Lau, Margaret
104	M/W 6:30– 9:30 PM	Dhand, Rohini	rdhand@hotmail.com	2097	Bhattasali, Onita
105	T/Th 9:00–12:00 PM	Lew, Helen	helenlew@berkeley.edu	2095	Xu, Tom
106	T/Th 9:00–12:00 PM	An, Dahlia	dahlia@berkeley.edu	2097	Liu, Judy
107	T/Th 2:00– 5:00 PM	Takata, Steve	Steve_takata@yahoo.com	2095	Freitas, Daniel
108	T/Th 2:00– 5:00 PM	Dhand, Rohini	rdhand@hotmail.com	2097	Liu, Jason

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>
6/25	1	First Lecture – introduction.	No Reading.	No lab.
6/27	2	Lab 1: Safety, & Equipment, Use.	pages 26-27, 94-97.	Pages 1-28.
7/2	3	Lab 2: Ligation & Cells	Ch. 6.	Pages 29-56*, 57-74. (focus on pages 29-32)
7/4		<i>NO Wednesday lecture.</i>	No lab.	No lab.
7/9	4	Lab 3: Transform, Enzymes.	pages 68-74, 77-86 & Ch. 8.	Pages 29-56*, 75-93. (*focus on pages 33-40)
7/11	5	Lab 4: Colony Isolation, Complementation I, Photosynthesis.	Ch. 10.	Pages 29-56*, 95-101**, 103-117. (*focus on pages 41-42, ** focus on pages 95-97)
7/16	6	Lab 5: Plasmid isolation & digestion, Complementation II, Genetics & Mol. Biol. I.	Chs. 12-17, 346-350, Ch. 20.	Pages 29-56*, 95-101**, 119-128. (*focus on pages 43-49, ** focus on pages 98-100)
7/18	7	Lab 6: DNA electrophoresis, Complementation III, GMB. II	Chs. 12-18.	Pages 29-56*, 95-101**, 129-142. (*focus on pages 50-52, p. 101)
7/23	8	Lab 7: Invertebrates I.	633-661, 820-827, 831-833, 844-855, 867-871, 884-887, 922-933, 1011-1012.	Pages 143-164.
7/25	9	<i>Q & A (if you want)</i>		
7/26 Th				Lab Exam 1 = 7/26. 12:30-2.
7/30	10	Lab 8: Invertebrates II.	656-669.	Pages 165-176
8/1	11	Lab 9: Anatomy.	855-862, 869-878, 886-889, 891-894, 931-936, 968-973.	Pages 177-186.
8/6	12	Lab 10: Chordate Diversity.	671-701.	Pages 199-214.
8/8	13	Lab 11: Reproduction and Development.	968-975, 987-1001.	Pages 187-198.
8/13	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 2006-2007 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 100 points will be held from 12:30-2 PM on Thursday July 26th. It will cover labs 1-6. Lab exam 2, worth 84 pts, covers labs 7– 11 and will be given in your lab, either Aug. 13th or 14th.