

Lecturers: Mike Meighan from the Department of MCB.

Lecture: Lectures are Monday from 5-6:30 PM in 1 Pimentel and simulcast in 10 Evans. They will also be webcast. You should read the assigned readings in Campbell and the lab manual prior to the lab lecture. The first lecture will be held on January 26th. Labs begin the second week of classes.

Contact information/office hours: Mike Meighan. 642-4110, 2088 VLSB, mailbox outside 2088 VLSB, e-mail is {mmeighan@berkeley.edu}. Scheduled Office hours are M 11-12, W 10-11, 2-3 and by appointment*. I am available for advice on study habits, techniques, and on matters of scheduling, laboratory operations, exams, etc.. * Office hours and location may be revised.

Graduate Student Instructors: The lab GSI's will instruct the laboratory sections. A lab GSI will typically be available one hour before the start of each lab period. See page 3 of the syllabus for a list of lab times. M 2-4, T 8:³⁰-9:³⁰, 1-2, 5:³⁰-6:³⁰, W 1-2, 5:³⁰-6:³⁰, Th. 8:³⁰-9:³⁰, 1-2, 5:³⁰-6:³⁰ PM, F 1-2. Held in 2084 VLSB. (*M 2-4 office hours may change.) Messages may be left in your GSI's mailbox in 2084 VLSB.

TIME TABLE

The deadlines for adding, dropping, and changing your grading option are shown in the reading list. **The drop deadline is January 30th.**

1. **Lectures begin January 26th** and end on May 4th. Lectures are held in 1 Pimentel on Monday from 5-6:30 PM and simulcast in 10 Evans. Lectures will be webcast and will be available on the web (<http://webcast.berkeley.edu/courses/>) (typically within 24 hours). No note taking service is authorized. A course reader (color print) is available at Replica Copy. Handouts will be available for downloading on the Biology 1AL website, by 5 PM on the Friday before a given lecture. Buy the reader—it is faster and cheaper and bound.
2. **Email address:** We will routinely email students about once a week. We will use the email address you have listed in the CalNet Directory. If it isn't the one you check, then you need to change it in the CalNet directory. If you have not received any emails yet, there is a problem with your listed email address.
3. **ADDING:** Students on the 1AL wait list will be added manually as seats open. All students on the wait list (and new students wanting to enroll) must fill out an online "Enroll from Wait List Request" form in addition to being on the wait list. This form is available from our website and bSpace and must be submitted by 8:00 AM Friday January 23rd. We will be allowing "alternate" students to attend lab (2 per section) for the first week of lab (until Friday January 30th). Information about alternates will be sent by email to all wait listed students and will be posted on the class website.
4. **SWITCHING SECTIONS: Permanent Switch.** To switch sections permanently, complete and submit a "LAB SWITCH" form (<http://mcb.berkeley.edu/courses/bio1a>). The deadline is **8:00 AM on January 23rd**. Section switches will be made directly online and can be seen on TeleBears by Noon **on January 26th**. Very few switches will be made. Earlier requests have slightly higher priority.
5. **TEMPORARY LAB RESCHEDULING:** You are expected to attend your scheduled lab. Avoid scheduled conflicts (exams, trips). If current conflicts exist then request a permanent switch. Avoid future conflicts! If some **unavoidable** and **unexpected** conflict or illness should occur (that directly interferes with your lab), it **may** be possible to reschedule to another lab section for that week. Rescheduling will only be approved when absolutely necessary, and the schedule

conflict or illness is verifiable and unavoidable, and we have space to make the reschedule. No rescheduling May 4th to 8th due to the second lab exam. To request to reschedule you may either check with the staff in 2098 VLSB, or send an email to bio1alab@berkeley.edu with your full name, your enrolled lab section, reason for the switch, and a list of other lab times during the same week (see page 3 for lab times) that you can make. We will usually email you back within one business day, the lab time and room you will attend for your rescheduled lab. In addition you will need to pick up a note from 2098 VLSB to give to the GSI teaching your rescheduled lab.

6. **LABORATORY** begins Tuesday January 27th and will cover Safety, Equipment use, Microscopes and Cells. Read pages 1-42 of your Laboratory Manual before the lab lecture. Our website will have a revised pdf file of the first lab exercise.
7. **Lab Exams: Lab exam 1: Wed March 18th from 6:30-8:30 PM.** Room(s) to be arranged. Lab Exam 2 will be held on your assigned lab day, within your three-hour period (**May 4th – 8th**). There are no make-up exams. Exam handouts will be given for each exam. There is NO additional final exam for the lab class.
8. 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.
9. **Attendance:** You are required to attend the lab section in which you are enrolled (not waitlisted). However it may be possible to reschedule lab during the same week (see 5 on p. 1).
10. **Assignments, exams: When papers are returned it is your responsibility to pick them up.**

LAB MATERIALS

Required textbook: Campbell, Biology, 8th edition. The textbook packaged with the lab manual is cheaper than the new textbook by itself.

Required Lab Manual: The required lab manual (2008/2009) 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 (near Ben and Jerry's). It is actually much cheaper, faster and easier to buy a set at Replica Copy instead of printing them out.

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

Required Course Notes: A lab lecture reader (in color) is available at Replica Copy, at 2140 Oxford (near Ben and Jerry's). It is printed in color and is bound. It is cheaper and faster to buy the bound reader instead of downloading the images each week. The second reader will become available later (only the first part is available now). Handouts and images will be available on our website by 5 PM on the Friday before an upcoming Monday lecture. Any slide revisions will be posted.

GRADING PROCEDURE: Grades will be determined numerically as follows:

Lab Exam 1, 3/18 6:30-8:30 PM (covers labs 1-6)	100 points
Lab Exam 2, 5/4-8 (covers labs 7-11)	84 points
Lab Quizzes – 5pts each, given at the start of lab (11 X 5 =55, drop the lowest)	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 EARNED points (not upon needs or wants). The guaranteed grades are:

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

However 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 quiz scores will be adjusted as necessary for each section. This insures 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.

I GRADES: UC regulations require that a 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 must complete the work before the first day of classes in the Spring Semester of 2010, 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 and worksheets! Students repeating the class must do the work this semester and cannot turn in work from previous semesters.

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. Make sure you review them. Do the reading before lecture.
2. Keep up with the material. Do not fall behind. Seek help if needed. Make sure you do the reading before lecture and lab – that includes the assignments in your lab manual and in Campbell.
3. Clarify topics by coming to office hours, forming a study group, or emailing your questions.
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/1AL STUDY RESOURCES

The following is a partial list. Additional opportunities such as reviews (faculty & GSI) may also be given. Further information is available in the lab manual and the Exam Reader.

Faculty Office Hr's: See the first page.

Lab GSI Office Hr's: (See the first page.)

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.

Tutor Services (fee): Formal tutoring (variable fees) from individuals may be available as the semester progresses. Contact Mike.

Biology 1A Web Sites: Primarily bSpace but also <http://mcb.berkeley.edu/courses/bio1a>

Odd numbered labs are held in 2095 VLSB. Even numbered labs are held in 2097 VLSB.

Lab #	Time	Lab #	Time	Lab #	Time
101	T 9:30-12:30	107	W 9:00-12:00	113	Th 9:30-12:30
102	T 9:30-12:30	108	W 9:00-12:00	114	Th 9:30-12:30
103	T 2:00- 5:00	109	W 2:00- 5:00	115	Th 2:00- 5:00
104	T 2:00- 5:00	110	W 2:00- 5:00	116	Th 2:00- 5:00
105	T 6:30- 9:30	111	W 6:30- 9:30	117	Th 6:30- 9:30
106	T 6:30- 9:30	112	W 6:30- 9:30	118	Th 6:30- 9:30
				119	F 9:00-12:00
				120	F 9:00-12:00
				121	F 2:00- 5:00
				122	F 2:00- 5:00

Biology 1AL Calendar, Spring 2009

<i>Date</i>	<i>Lecture Topic</i>	<i>Reading Campbell (7th ed.)</i>	<i>Reading Campbell (8th ed.)</i>	<i>Reading Lab Manual (2008-09- ONLY)</i>
Week 1 1/26-30	Lab 1: Safety, Micropipetter, Microscope and Cells. *	Ch. 1, Ch. 6., Pages 534-536	Ch. 1, Ch. 6. Pages 556-558	Pages 1-42.
	* Drop deadline is 1/30.			
Week 2 2/2-2/6	Lab 2: Chordate Diversity.	Ch. 34	Ch. 34	Pages 43-59.
Week 3 2/9-13	Lab 3: Transform, Enzymes.	Ch. 5 (except 5.3) & Ch. 8.	Ch. 5 (except 5.3) & Ch. 8.	Pages *60-86, 87-106. (*focus on pages 65-72)
Week 4 2/16-20	NO LAB LECTURE & NO LAB. * Grade change deadline = 2/20.			
Week 5 2/23- 2/27	Lab 4: Colony Isolation, Complementation I, Photosynthesis.	Ch. 10.	Ch. 10.	Pages 60-86*, 107-114**, 115-129. (*focus on pages 73-74, ** focus on pages 107-109)
Week 6 3/2-6	Lab 5: Plasmid isolation & digestion, Complementation II, Genetics & Mol. Biol. I.	Chs. 12-17, 346-350, Ch. 20.	Chs. 12-17, 561-564 Ch. 20.	Pages 60-86*, 107-114**, 131-140. (*focus on pages 75-80, ** focus on pages 110-112)
Week 7 3/9-13	Lab 6: DNA electrophoresis, Complementation III, GMB. II	Chs. 12-17, 346-350, Ch. 20.	Chs. 12-17, 561-564 Ch. 20.	Pages *60-86, 107-114**, 141-153. (*focus on pages 81-84, p. 112-114)
Week 8 3/16	Lecture: Review & Q & A NO LAB, LAB EXAM 1 ON 3/18 6:30 - 8:20	See Exam Handout	See Exam Handout	Lab Exam 1. 3/18 (Wed night) 6:30-8:30 PM
Week 9 3/30	Lab 7: Bioinformatics	Pages 10-11, Ch. 20 See handout.	Pages 8-10, Ch. 20 See handout.	Handout on our website.
Week 10 4/6-10	Lab 8: Anatomy.	820-827, 844-848, 853-864, 867-878, 884-894, 922-936, 964-973.	852-862, 875-876, 880-893, 898-905, 915-924, 954-969, 997-1,006	Pages 155-160, 193-202.
Week 11 4/13-17	Lab 9: Invertebrates I.	626-627, 820-827, 630-655, 1011-1012.	654-656, 852-862, 658-682, 1064-1065	Pages 161-178.
Week 12 4/20-24	Lab 10: Invertebrates II.	655-669.	683-697	Pages 179-1191
Week 13 4/27-5/1	Lab 11 Reproduction and Development.	Ch. 46, 987-1001.	Ch. 46, 1021-1035	Pages 203-214.
Week 14 5/4-8	Lecture: Review & Q & A LAB EXAM 2 During lab time.	See Exam Handout		Lab Exam II during your lab.

NOTE THE LAB EXAM ON WEDNESDAY March 18th 6:30-8:30 PM.

Changes to the syllabus may occur throughout the semester. You will be informed of any changes.