

**BERKELEY CITY COLLEGE**  
**Biology 10: Introduction to Biology**  
**Fall 2018**

**Lecture:** MW 1:30-2:45 pm in Room #513 #40584

**Lab:** MW 3:00-4:15 pm in Lab #513 #40585

**Instructor:** Pieter de Haan

**E-mail:** [pdehaan@peralta.edu](mailto:pdehaan@peralta.edu)

**Office hours:** M & W 7:30AM-8:00 am or T & Th 1:30PM-3:30 pm in Room 511 or by appointment.

**Course Description:** A non-majors biology course that introduces basic concepts of living organisms including aspects of biological chemistry, cell structure and function, physiology, genetics, evolution and ecology.

Biology 10 transfers to the UC/CS systems and satisfies a general education requirement as a life science course with a lab. Consequently, taking Biology 10 at Berkeley City College is just the same as taking it at the University of California or State University. To ensure transferability, academic standards will be maintained.

**Student Learning Outcome:** Describe Fundamental Concepts in Biology; describe the basics of cellular life, genetics, evolution, ecology, and biophilia, as well as the diversity of biological life. Apply the Scientific process in lab experiments

**Required Text:**

*Concepts of Biology.* <https://cnx.org/contents/s8Hh0oOc@11.1:Pj8cW7X1@4/Introduction>

*Biology 10 Laboratory Notebook.* Copy World, 1375 University Ave. 666-1000

You need four **Scantron forms (Form No. 882-E)** for the exams.

**Grading:** Final grades are based on lecture and laboratory. 70% of the final grade comes from the lecture and 30% from lab.

Lecture (@ 70%)

Three Midterm Exams (75 points each)	225 points
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Final Exam	100 points
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Three Homework Assignments (20 points each)	60 points
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<b>Total</b>	<b>385 points</b>
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Lab (@ 30%)

Two Lab Exams (50 points each)	100 points
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Lab Notebook Assignments (2.5 points each)	65 points
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<b>Total</b>	<b>165 points</b>
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Final grades will be assigned as follows:

A 90-100 %

B 80-89 %

C 70-79 %

D 60-69 %

F <60 %

No makeup examinations will be given without a written medical excuse. **Vacation and/or travel plans do NOT qualify.** Written notification is expected **PRIOR TO** the date and time of the exam. A note to my E-mail address can accomplish this. Late Homework Assignments are not accepted.

**Prompt Attendance:** Every student--just like the instructor--is expected to attend every class. Attendance means that you come to the beginning of class and stay until the end! However, we all know extenuating circumstances arise.

**Some Advice:** Be familiar with the Lecture syllabus you received at the first lecture. Read the assigned chapter(s) before you come to the lecture and attend every lecture. **Study in groups.** The more you discuss the material, the better you will grasp it. Anyone caught cheating will receive an F for the course, and the incident will be reported to the administration. Don't even think about it!

<b>Date</b>	<b>Lecture</b>	<b>Chapter</b>	<b>Laboratory</b>	<b>Lab</b>
M 8/20	Introduction to Biology	1.2	Laboratory safety Glassware & Accuracy	1
W 8/22	Atoms and Molecules	2.1	Molecular Models 1	2
M 8/27	Organic Molecules	2.3	Molecular Models 2	3
W 8/29	Organic Molecules	2.3	Acids, bases, pH	4
<b>M 9/3</b>	<b>Labor Day</b>			
W 9/5	Water & pH	2.2	Chromatography	5
M 9/10	<b>Lecture Review</b>		Electrophoresis	6
W 9/12	<b>Lecture Exam 1</b>	<b>1 - 2</b>	<b>Spectrophotometry</b>	<b>7</b>
M 9/17	The Cell	3.1-3.3	Microscopy 1+2	9+10
W 9/19	The Cell membranes	3.4-3.6	Osmosis and Diffusion	App.1
M 9/24	Enzymes	4.1	Enzymes	11
W 9/26	Glucose Oxidation	4.2	Fermentation II	14
M 10/1	Photosynthesis	5	Photosynthesis I, II	15,16
W 10/3	Mitosis	6	Mitosis I	17
M 10/8	<b>Lecture Review</b>		<b>Lab Review</b>	
W 10/10	<b>Lecture Exam 2</b>	<b>3 - 6</b>	<b>Lab Exam 1</b>	<b>1-17</b>
M 10/15	Meiosis	7	Meiosis	19
W 10/17	Genetics	8	Genetics 1	20
M 10/22	Genetics	8	Genetics 2 <b>Finish Homework</b>	21
W 10/24	DNA & Protein synthesis <b>Homework due!!</b>	9	Protein synthesis	24
M 10/29	<b>Lecture Review</b>		DNA isolation	23
W 10/31	<b>Lecture Exam 3</b>	<b>7+9</b>		
M 11/5	DNA Technology	10	Virus Lab	25

W 11/7	Evolution	11+13.2	Prokaryotes 1	27
<b>M 11/12</b>	<b>No Classes</b>			
W 11/14	Origin of Life+ Prokaryotes	13.1	Prokaryotes 2	28
M 11/19	Protista	13.3	Protista	29
W 11/21	Fungi	13.4	Fungi	31
M 11/26	Plant Kingdom	14	Plants	30
W 11/28	Ecology	19	<i>Film: Our Synthetic Sea</i>	34
M 12/3	Ecology	19	<b>Lab Review</b>	
W 12/5	<b>Lecture Review</b>	20	<b>Lab Exam 2</b>	
M 12/10	<b>Final</b>	<b>10-11; 13-14; 19-20.</b>		

**Disclaimer:** The course outline is tentative and subject to change.

### Enrollment

- A. The last day to add this course is: 8/26/18.
- B. The last day to drop this course without a "W" appearing on your transcript is: 9/3/18.
- C. The last day to withdraw from this course and receive a "W" is: 11/16/18.
- D. You are responsible for your enrollment in this course. You will receive a grade for this course if you do not drop or withdraw on or before the deadline.**
- E. Attendance in lecture and lab is required. Unexcused absences may result in your being dropped from the class

## Grade Sheet

This page is designed to help you to keep track of your grade on exams, lab exams, homework, and labs etc. in Bio 10, since exams must be turned back to me. Please keep it in a safe place. Despite my best efforts, sometimes a grade is marked down incorrectly in the computer – if you think it is incorrect, this sheet can be a reference for you.

Lab	Score	Lab exams	Score	Homework	Score	Lec exams	Score
1		1		1		1	
2		2		2		2	
3				3		3	
4						<b>Final</b>	
5							
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