

Biology 10DL, General Biology

Welcome to online Biology 10 for the Summer of 2020! This course introduces you to the scientific study of life in all its wondrous forms. Our goal is to help you gain a working knowledge of the fundamental principles of biology. We also want you to be impressed by the workings of biological systems, and to end the quarter with some key facts, tons of questions about Biology, and the skills, interest and curiosity to pursue their answers.

The course format features online lectures, and assignments, as well as online labs and exams. Most labs are online and are mostly self-paced, with a handful or so of mandatory Zoom meetings which you must attend during your section time on a few specific days (see below). Exams are online via Canvas at set times and set dates. The video modules contain lectures on dozens of different topics in Biology and are for you to watch on-demand all quarter, at your convenience. Your textbook will supplement these video lectures and is to be used in conjunction with the video modules. All course material and information is hosted on Canvas.

Welcome to General Biology!

Course #: BIOL 010.61Z (CRN 10511); BIOL 010.65Z (CRN 10512); BIOL 010.66Z (CRN 13093)

Lecture: On-line video modules available on-demand throughout the quarter

Laboratory: Mostly asynchronous (self-paced) labs and exams, with a handful of mandatory "Online Labs" via Zoom, and "Online Exams" via Canvas during your section time on the following dates:

6/29	(Zoom session)
7/8 & 7/9	(Online Exam on Canvas)
7/22 & 7/23	(Online Exam on Canvas)
8/3 or 8/4	(Zoom sessions)
8/5 & 8/6	(Online Exam on Canvas)

So on these dates listed above, you need to be joining Zoom for a synchronous Lab or logging into Canvas for an Exam online – DURING YOUR SECTION TIME!!! The rest of the course is self-paced (asynchronous).

When we meet on Zoom on the dates given above, or have Exams together in Canvas, your meeting time will be based on which section you are in

66Z – Meets	8:40 AM – 9:55 AM
61Z – Meets	10:00 AM – 10:15 AM
61Z – Meets	11:30 AM – 12:45 PM

Instructor: **Eric Pane**

Office Hours: All scheduled class times via Zoom
email: paneeric@fhda.edu (or Canvas mail tool)

Texts:

- **Bio 10 DL – Introductory Biology Campbell Biology – Concepts and Connections. DeAnza College**

(Note: This is an abridged version of Campbell Biology – Concepts and Connections 8ed. The full 8ed will work just fine, as will the 7th or 9th or 10th full editions! And any eBook (digital) copy you can get will work fine, too

Additional references (NOT REQUIRED !!!!!!!)

- *Dictionary of Word Roots and Combining Forms* (Not required, but could be really helpful for your biological vocabulary)
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Course Description:

An introduction to biology as a branch of the biological sciences and to its basic unifying principles, with selected application to the scientific method, evolutionary concepts, genetic modification, biotechnology, ecology, ecological crises and human impacts.

Prerequisites:

(Not open to students who have completed Biology 6A, 6B, 6C, or equivalent.) (See general education pages for the requirement this course meets.) Advisory: English Writing 1A or English as a Second Language 5.

Student Learning Objectives for this course are: 1. Evaluate the correlation of structure and function in plants and animals.

POINT DISTRIBUTION:

Online Final exam	200 points
2 Online Midterm Exams (150 points each)	300 points
Online Quizzes (4)	120 points
Online Post-Labs (after every online Lab)	330 points
Online Lab Participation	50 points

Your course grade will be assigned based on points earned (1000 points possible).

A+.....	970 - 1000 points
A.....	930 – 969 points
A-.....	900 - 929 points
B+.....	870 - 899 points
B.....	830 - 869 points
B-.....	800 - 829 points
C+.....	770 - 799 points
C.....	700 - 769 points
D.....	600 - 699 points
F.....	0 - 599 points

MISCELLANEOUS

- If you require any kind of accommodation from the DSS, please notify me in writing during the first week of class so I can help. If you receive extra time on Exams, I can easily set that up in Canvas, so your individual online exam is open and available for the appropriate amount of time

COURSE BREAKDOWN

ONLINE LECTURES

- Very, very simple. All pre-recorded, and on-demand all quarter. Each week of the Quarter, I'll tell you which video modules to watch that week. So simple!! Watch the videos, take notes, study your notes, rewatch as needed... and if you know what's in those videos, you'll be in a really good place in this course. All videos are close-captioned.

ONLINE LABS

- Most Labs (the first 6) will be self-paced, with a set opening date and a set closing date. You will have the entire time they are open to work on them. The primary material is an archived video (about 2 hours long) of the Lab. The video was recorded with a previous class, but you should be able to work your way through the entire lab, watching the video, taking notes, and filling in your own copy of each Lab (downloadable from Canvas). Roughly, you'll have about 2 full days to complete each Lab. The archived Lab videos are on-demand all quarter. The archived Lab videos are close-captioned.
- Each Lab ends with "Post-Lab Questions", that are to be completed in Canvas before the deadline for each Lab. Post-Lab Questions for each Lab are graded and will test your complete understanding of the entire Lab and all the concepts within that Lab. For each Lab, you'll see in Canvas a "Lab Page" that covers everything you need to know about each Lab, and all the resources you'll need.
- While each Lab is open, you can drop into any of the Optional Zoom sessions to get help from me on that lab. There will usually be 2 Zoom sessions you can drop in on (DURING YOUR SECTION TIME) for each Lab
- The last Lab (Lab #7) will be run differently. We'll add in a Discussion Group to this Lab and a synchronous Zoom Breakout Rooms. But more detail about that later in the course....
- Lab schedule (along with the Online Exam schedule) can be found at the very bottom of this document.

ONLINE EXAMS

- The 2 Midterms and the Final exam will be given online (in Canvas) **ONLY** during your lab meeting times (See dates above or schedule below). You don't need to bring anything to the Exam on the days when you log into Canvas.
- No dictionaries, calculators, notes, references, or any other electronic equipment are allowed during exams. You may not look up anything online during your Exams. Copying and pasting any answers from an outside source (Google, Wikipedia, Quizlet, etc...) during an Exam is not allowed and grounds for an immediate grade of "0" on that Exam, as well as a mandatory follow up incident report in your name, detailing Academic Dishonesty, sent to the Dean of Student Development to remain on your student record permanently. All answers submitted on an Exam **MUST BE** your own individual work.

<u>Online Exam #1 (Midterm #1)</u>	<u>Covers</u>	
Wed. July 8th and Thu. July 9th	Videos 1-17	Labs 1 & 2
<u>Online Exam #2 (Midterm #2)</u>		
Wed. July 22nd and Thu. July 23rd	Videos 18-34	Labs 3 - 5
<u>Online Final</u>		
Wed. Aug. 5th and Thu. Aug. 6th	Videos 35-43	Labs 6 & 7

- The Exam questions will come almost exclusively from the material on the Study Guides. So study this material very carefully. The material on the Study Guides will come directly from the video modules (as supported by your textbook) and directly from the lab concepts/exercises that we do during online labs.
- NOTE THAT ALL EXAMS WILL TAKE PLACE OVER 2 SUCCESSIVE ONLINE (CANVAS) SESSIONS. The first day of each exam will be Multiple Choice/Fill-in-the-Blank, etc., and the second day will be short answers and essays. You'll need to be there (in Canvas during your section time) for both days in order to be able to complete both halves of the exam.

ONLINE QUIZZES

- 4 Online Quizzes during the quarter will be mandatory and due on most Fridays of the quarter at 5:00 PM. Detailed info about each of the 4 Online Quizzes can be found in Canvas.
- The format of these Quizzes is an open text box where you enter the correct answers to the assignment into the text box **BEFORE THE DEADLINE**. Traditional assignments that you hand directly to an instructor typically have a “window” of 5 or 10 minutes during which they're typically accepted as still being on time. Online deadlines are marked in billionths of a second, and there's nothing I can do about it. Please be prepared to get your answers entered into the computer on all of these on-line assignments with some time to spare. Server backlog, ISP issues, processing time, etc... can sabotage your efforts to have the Quiz in on time!
- These online Quizzes are open-notes and I can help you as much as you want with these Quizzes!! You can send me possible answers before the deadline, and I'm happy to look over your work, make suggestions, etc...
- Even though these Quizzes are open-notes and you can ask me for as much help as you want, remember that all answers you submit on these Quizzes **MUST BE** your own individual work.
- Note, too, that there are even a small handful of small, quick, easy, and totally **OPTIONAL** extra credit quizzes available all quarter and due the last Friday of the quarter (June 26th at 5:00 PM). If you're interested, find the Canvas block near the top of our course page called “**Some optional tutorials and easy (Extra Credit) quizzes - if you want!!**”

HELPFUL HINTS

- The video modules often refer to “exercises” that you should do as part of the video module. In other words, I'll frequently say during a lecture module to “pause the video” and find and download a certain document on the course server. These Lecture Exercises will be matching exercises, tables to complete, questions to answer, etc...as a supplementary exercise to the video. These Lecture Exercises are **NOT A FORMAL PART OF THE GRADING PROCESS**, yet you can be sure that the material covered in these exercises will appear on exams. I can't suggest strongly enough that you take the time to pause the modules and try the Lecture Exercises on your own to see where you stand with the material. I won't be in your living room, so I have no control over whether you ignore the exercise and skip right over it. I just know that students will fare much better in the course by trying the “hands on” exercises at the appropriate time. If you'd like more info on these Lecture Exercises, there's a short video tutorial available in Canvas – go to one of the top Modules called “**Some optional (Extra Credit) tutorials and easy quizzes - if you want!!**”. Open that module and you'll see a Tutorial about Lecture Exercises and even a quick and easy extra credit quiz about Lecture Exercises and how we use them in this course.
- All grading is done on a percentage basis. So for “course total” purposes, each lab might be worth 60 points, but the scoring on the actual lab might be out of 15. So if you get 13.5 out of 15 on the lab,

that's a score of 90%, so when I calculate your total score for that lab, you will get 90% of the 60 available points for that lab (or 54 points).

- Come to office hours whenever possible. This is a great way for me to get to know you well and for me to help you succeed in this course. Even when office hours have to be online!!!
- Set up review and study sessions with your peers to study together and share information. Even online, these work great. Use Zoom or any other virtual conferencing tool to get together online and share notes, ideas, etc..
- Assume that you are very capable and that I (and your classmates) can help you out when you get stuck. Assume that you can help me (and your classmates) out, too.
- Bring an attitude of basic courtesy and respect to all online class meetings. Be clear and careful and respectful with all your online communication this quarter, and you can be assured that I will do the same, and that we'll get along well together.
- There are also 50 points available in the course (5% of your grade!!) for participation in all of the aspects of the course. The more involved you are, the more participation points you can earn! Even though the course is online, there are still a ton of ways you can be involved, from joining optional Zoom sessions, to participating in Discussions, to contacting me via email....
- And mostly.... Enjoy yourself. I'll try to keep the material interesting and informative – help me out by getting interested and involved!

Cheating

- Please refer to the Course Agreement in Canvas. Reading this Course Agreement, agreeing to it, and following its terms are essential to staying enrolled in this course. A fully online course is incredibly open-ended and requires exceptionally independent (and quality) decision making from students. The Course Agreement details VERY CAREFULLY when you can look things up online during this course and when you cannot do so. And what the consequences are if you look something up online at the wrong time (i.e. during an Exam!!). Please also note that all submitted work, including online Post Lab questions, online Quizzes, and online Exams MUST be your own individual and independent work. Asynchronous activities like online Quizzes, and most Labs, are all open-note, but you'll need to paraphrase all material before you submit it online and be sure its YOUR words, YOUR sentences, etc.. and not just copied and pasted directly from another source.
- Read the student handbook and honor code regarding cheating and know what it says. If you have any questions ask me. You are solely responsible for understanding what it says, and you will be held accountable for all the information in the handbook.

Your success and enjoyment in this class are important to me. Think, ask, be curious and have fun.

Bio 10 DL 61Z & 65Z & 66Z Summer 2020 Lab Schedule

	ZOOM SESSION	CANVAS ONLINE EXAM	
June 29 th	Mandatory		Course Orientation
June 30 th	Optional		Lab #1 Intro to Microscopes and Cells
July 1 st	Optional		Lab #1 Intro to Microscopes and Cells
June 2 nd	Optional		Lab #1 Intro to Microscopes and Cells
July 6 th	Optional		Lab #2 Cellular Transport
July 7 th	Optional		Lab #2 Cellular Transport
July 8 th		ONLINE EXAM #1	
July 9 th		ONLINE EXAM #1	
July 13 th	Optional		Lab #3 Enzymes
July 14 th	Optional		Lab #3 Enzymes
July 15 th	Optional		Lab #4 Biotechnology and DNA
July 16 th	Optional		Lab #4 Biotechnology and DNA
July 20 th	Optional		Lab #5 Cell Division
July 21 st	Optional		Lab #5 Cell Division
July 22 nd		ONLINE EXAM #2	
July 23 rd		ONLINE EXAM #2	
July 27 th	Optional		Lab #6 Ecology and Evolution
July 28 th	Optional		Lab #6 Ecology and Evolution
July 29 th	Optional		Lab #7 Hypothesis Testing
July 30 th	Optional		Lab #7 Hypothesis Testing
Aug. 3 rd	Mandatory		Lab #7

			Hypothesis Testing
Aug. 4 th	Mandatory		Lab #7 Hypothesis Testing
Aug. 5 th		ONLINE FINAL EXAM	
Aug. 6 th		ONLINE FINAL EXAM	

ZOOM SESSIONS will be held during your section time. If it's Mandatory, you NEED to be there. If it's Optional, think of it like an Office Hour – you're welcome to join for whatever help you'd like.

ONLINE EXAMS will be held in Canvas during your section time. Just log in during your section time on the dates above and the exams will be ready for you on Canvas.

ONLINE LABS will open (at 12:01 AM) on the first date it appears in this schedule and they will close (at 10 PM) on the last date you see a lab on the schedule. So, if you look at Lab # 6 Ecology and Evolution, it will be open for you to start as a self-paced activity on 12:01 AM on July 27th, and it will close the next day (July 28th) at 10 PM. Either of those days, you can drop in on the Optional Zoom Session and get help from me with that lab (or anything else you'd like help with!)