



**Biology-11
Concepts of Biology
Bakersfield College
Summer 2020**



**Web site; <http://www.drjoebio.com>
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CRN #51224 (Fox) BC Online-Flexible (June 15 – July 23, 2020): This course is fully online. Most learning will take place on Canvas and Youtube. Students will be able to view course content when it is convenient to their schedule. Quizzes and exams will have time constraints for completion.

CRN #51226 (Bee) BC Online-Flexible (June 15 – July 23, 2020): This course is fully online. Most learning will take place on Canvas and Youtube. Students will be able to view course content when it is convenient to their schedule. Quizzes and exams will have time constraints for completion.

Zoom Office Hours

Mon-Thurs 9:00 – 10:35 AM. Arrangements can be made to meet at different times if students have a schedule conflict.

The Zoom meeting number is; 107 431 842

Class Text and Materials: (Recommended but NOT required)

Campbell Essential Biology with Physiology, 6th ed. Eric J. Simon, Jane B. Reece and Jean L. Dickey. 2019. Benjamin Cummings Publishing. ISBN 978-0-134-71175-1
Previous editions are acceptable.

The Immortal Life of Henrietta Lacks. Rebecca Skloot. 2010. Crown Publishers.
ISBN 978-1-4000-5217-2

Biology 11 Lab Manual. Purchase at BC Bookstore. ISBN 9-781975-068837

Attendance Policy(BC Catalog)

“Regular class attendance is expected of all students enrolled in the college. It is especially important that students attend the first session of each class for it is at this time that instructors may distribute syllabi and course requirements and explain what is expected in terms of attendance.” The primary modality of instructor/student interaction will occur through Canvas and email. Please make sure to check your student email daily.

Student Conduct and Electronic Devices

- Students will act with academic Integrity: Cheating, fabricating or falsifying information or sources, improper collaboration, submitting the same paper for different classes without permission, and plagiarism are all forms of academic dishonesty. Plagiarism occurs when writers and speakers deliberately or unintentionally use another person's language, ideas, or materials and present them as their own without properly acknowledging and citing the source. Academic dishonesty and/or plagiarism will result in one or more of the following consequences: failure of the assignment, referral to the Dean of Instruction, and/or disciplinary actions by the Director Student Life. Cite sources carefully; when in doubt, **cite**. Familiarize yourself with BC's Student Code of Conduct and KCCD's definitions of plagiarism and cheating (KCCD Board Policy 4F7D; pg. 144).
- Electronic sharing or social media posting of any class recordings or class materials are **not allowed**. ©

Grades

Exams (5 @ 200 points each)

There will be 5 exams worth 180 points each. The exam will be a combination of multiple choice, true/false, fill-in the blank, matching and essay. All exams will be on Canvas.

Exam 1 Thursday, June 18

Exam 2 Thursday, June 25

Exam 3 Thursday, July 2

Exam 4 Thursday, July 9

Exam 5 Thursday, July 16

Final Exam (1 @ 200 points)

The final exam will be cumulative and **optional**. Students have the option of accepting the grade that they have going into the final exam. One hundred points come from the Course SLOs (Student Learning Outcomes) and one hundred points will be from the final lecture material.

Final Exam: Thursday, July 23

Lab Reports (11 @ 20 points each)

There will be lab write-ups for each lab. Each lab report is worth 20 points. The instructor will accept late lab reports, but the assignment will have a 50% point deduction.

Lab Exam (180 points)

There will be a cumulative lab exam during the last week of instruction. The exam will assess the student's understanding of the objectives of each lab.

Wednesday, July 23

Henrietta Lacks Quizzes (11 @ 20 points each)

Canvas quizzes will be Monday - Wednesday. Quizzes are available 6:00 AM – 8:00 PM. There are no make-up quizzes. Here is Quiz Schedule:

Monday, June 22;	Quiz 1; Prologue-Ch. 2
Tuesday, June 23;	Quiz 2; Ch. 3 – Ch. 7
Wednesday, June 24;	Quiz 3; Ch. 8 – Ch. 11
Monday, June 29;	Quiz 4; Ch. 12 – Ch. 15
Tuesday, June 30;	Quiz 5; Ch. 16 – Ch. 19
Wednesday, July 1	Quiz 6; Ch. 20 – Ch. 22
Monday, July 6	Quiz 7; Ch. 23 – Ch. 25
Tuesday, July 7	Quiz 8; Ch. 26 – Ch. 29
Wednesday, July 8	Quiz 9; Ch. 30 – Ch. 32
Monday, July 13	Quiz 10; Ch. 33 – Ch. 35
Tuesday, July 14	Quiz 11; Ch. 36 – Ch. 38

Syllabus Quiz (25 points)

All the information required for BIOL-B11 can be found on the class syllabus. Students will be given a Canvas quiz regarding the syllabus and the web site. It is due on Wednesday, June 17.

Lab Projects (1 @ 25 points each.)

Students will complete 1 project from the following list.

Project	Due Date
Red Queen Lab Write-Up	Following the RQ Lab
Cell Brochure	Following Micro. Lab
Punnett Project	Following Marriage Lab
Product Comparison Project	July 9
CALM* (on your own)	July 9
Blood Alcohol Content Article	July 9
Los Angeles Zoo* (On your own)	July 9
Blood Donation	July 9
Santa Barbara Whales* (On your own)	July 16
Exotic Feline Breeding Facility* (On your own)	July 16
GATTACA Project	July 16
Gibbon Conservation Center* (On your own)	July 16
Buena Vista Museum* (On your own)	July 16
Virtual Monterey Bay Aquarium Project	July 16
* Some projects require some travel by automobile. This will be the sole responsibility of the student but may be arranged with fellow students. Students must attach proof to the worksheet as your proof of attendance (Example; ticket stub, brochure...).	

Points Breakdown**Including Final**

Exams	1000 pts.
Final Exam	200 pts.
Lab Reports	220 pts.
Lab Exam	210 pts.
Project	25 pts.
HeLa quizzes	220 pts.
Web Site Quiz	25 pts.
Total	1900 pts.

Excluding Final

Exams	1000 pts
Lab Reports	220 pts
Lab Exam	210 pts
Project	25 pts
HeLa quizzes	220 pts
Web Site Quiz	25 pts
Total	1700 pts

Grading Breakdown

<i>(With Final)</i>	Above 1710	A
	1520 - 1709	B
	1330 - 1519	C
	1140 - 1329	D
	Below 1139	F

<i>(Without Final)</i>	Above 1530	A
	1360 - 1529	B
	1190 - 1359	C
	1020 - 1189	D
	Below 1019	F

Late and Make-up Policy

- Late lab reports or projects will be accepted at a 50% point deduction.
- Quizzes, labs and exams can **NOT** be made up.
- PLEASE contact the instructor if you will not be able to take an exam due to a schedule conflict or emergency. Contact must be made prior to the exam.

Students with Disabilities

Students with disabilities who believe they may need accommodations are encouraged to contact Supportive Services, as soon as possible to better ensure such accommodations are implemented in a timely fashion. It is the student's responsibility to make these arrangements well in advance of any exam or assignment. Bakersfield College will make reasonable accommodations and/or academic adjustments to ensure that students with disabilities have an equal opportunity to participate in the college's courses, programs and activities, including extracurricular activities. Students with disabilities who are requesting academic accommodations or auxiliary aids should contact Disabled Student Programs & Services:

Phone: (661) 395-4334 (V/TTY)
 dspsdesk@bakersfieldcollege.edu
 DSPS, Center for Student Success (CSS) 10

BIOL-B11 Summer 2020 Schedule

Date	Lecture	Lab	Notes
June 15-18	Syllabus Introduction (1) Populations (18) Community and Ecosystems (19)	M: Jelly Side Down (pg. 17-22) W: Behavior of Siamese Fighting Fish (pg. 181-187)	Web Quiz due 6/17
Jun 22-25	Evolution (14) Human Impact (20) Chemistry (2)	M: Red Queen Lab (Lab available on Canvas) W: Diffusion/Osmosis (pg. 63-68)	
June-July 29-2	Molecules (3) Cell (4) Enzymes (5)	M: Mitosis/Meiosis (pg. 55-58) W: Marriage Lab (pg. 149-156)	
July 6-9	Photo. (7) Cell Resp (6) Mitosis/Meiosis (8)	M: DNA Lab (Lab available on Canvas) T: BC CSI Lab (pg. 132-138)	
July 13-16	Genetics (9) Microbes (15) DNA (10) Biotech (12)	M: DNA Extraction (pg. 139-141) W: Plague (Lab available on Canvas)	
July 20-23	Human Anatomy/Physiology (21-27)	M: Seeing, Bleeding, Breathing (pg. 207-213) W: Lab Final	Lab Exam; July 22 Lec Exam July 23

Assessment Rubric for Essays (How are essays graded?)

This is the scoring rubric that I use when I grade your answers to lab report and essay exam questions. Assume the answer is worth 5 points:

Point Value	Quality of Answer
5	You have submitted a full and complete description or explanation. I have no more “how” or “why” questions and all the appropriate vocabulary has been included
4	Your explanation is fairly complete; however, I may still be able to ask you “how” or “why” at least once. Appropriate vocabulary has been incorporated in your answer.
3	Your explanation is partially complete or correct; however, I may still be able to ask you “how” or “why” more than once. Not enough appropriate vocabulary has been incorporated in your answer.
2	Your answer is underdeveloped in terms of explanations and use of appropriate vocabulary
1	Your written work does not address the question that has been asked.
0	Not even in the “ballpark” with your answer or you didn’t even attempt an answer.

Bakersfield College Biology-11 Course Student Learning Outcomes (Revised March 19, 2015)

Students that successfully complete the course will be able to...

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| 1. research a topic, design experiments, synthesize and evaluate the information, justify and express their opinions. |
| 2. identify various cells and their structural components and differentiate the functions of each of their components. |
| 3. a) understand the significance of DNA as the basis for heredity, structure, function and disease in living organisms;
b) describe the DNA molecule and explain how it is used in living systems to create proteins; and
c) describe how proteins function in living cells. |
| 4. describe the organs found in selected human organ systems, then explain the role played by each organ in the overall functioning of that system. |
| 5. compare and contrast characteristics of various organisms particularly related to energy sources (feeding style), cellular composition, reproduction and relationship to the ecosystem. |
| 6. a) describe the flow of energy through the ecosystem, then construct a food web, placing specific species of organisms at each level;
b) choose a common ecosystem disturbance of human origin and predict the effects of that disturbance on a food web and
c) understand the complexity of ecosystems and environmental issues. |
| 7. a) recognize, value, and apply major biological concepts contributing to current issues in the biological realm; and
b) apply critical thinking skills to formulate and defend a position on a controversial issue of biological importance. |