

# BI 222—PRINCIPLES OF BIOLOGY II

## LBCC, Winter 2021

**Instructor:** Warren Coffeen, Ph.D.

Office: WOH 221

Email: [coffeew@linnbenton.edu](mailto:coffeew@linnbenton.edu)

**Office Hours: TBA**

[Zoom link for office hours](#) (same all term)

You may also contact me via email to schedule an appointment

**Schedule:**

Lecture: **MWF** 11-12:20 Remote - [Zoom Link](#) Passcode: biology

Labs: Your lab time will be based on your CRN:

CRN: 34746, Wed 8-9:50

CRN: 34747, Wed 10:30-12:20

CRN: 34748, Wed 1-2:50

CRN: 34749, Wed 3:30-5:20

CRN: 34751, Thur 10:30-12:20

CRN: 34752, Thur 1-2:50

CRN: 34753, Thur 3:30-5:20

Each CRN will have 12 registered students, 6 will have lab in WOH 205 and 6 in WOH 218.

**Prerequisite:** BI 221 with a C or better.

**Required textbooks:**

\*[OpenStax Biology](#), [Boundless, LibreText](#), and [Kimball, LibreText](#). Or any majors biology book would work (such as Campbell Biology or Raven Biology)

\*Weekly Homework in Moodle

\* *BI 222 Lab Material will be available on Moodle*

**Assessments:** (subject to change)

Labs (10@8 pts/lab)	=	80 points
Online Homework (6 pts/week)	=	60 points
Weekly Forum (1 pt/week)	=	10 points
7 Quizzes@ 10 points each	=	70 points
2 exams @ 75 points each	=	150 points
Final Comprehensive exam	=	100 points
<b>Total</b>	<b>=</b>	<b>470 points</b>

**Course Learning Outcomes:**

- Describe ways that organisms communicate or respond to the environment at a cellular and organismal level.
- Explain how structure relates to physiology and transfer these concepts to a new situation.
- Explain mechanisms of transport, movement, and nutrient acquisition in different organisms.
- Describe how biological systems detect and respond to different internal/external stimuli through homeostatic mechanisms.

**Grading Scheme:**

90 - 100%	A
80 – 89%	B
70 – 79%	C
60 – 69%	D
59.9 % and below	F

### **Quizzes**

There will be eight 10 point quizzes given throughout the term. All quizzes will be administered through Moodle on each Friday when there isn't an exam. The quizzes will be available from 2 pm till midnight. Only 7 of the 8 quizzes will be counted towards your final grade.

### **Exams**

There are two exams and one final cumulative exam. The exams will be on Friday 1/29/21 and 2/26/21 and the final on Monday 3/15/21. All exams will be taken remotely, on zoom with the video camera on. During the term you will sign up for a timeslot in which you will take the exam. Exams will be open notes, but you will have a strict time limit, and if too much time is spent looking up answers you will run out of time.

**Labs:** All labs are two hours long and you are expected to be on time and remain in lab the entire time until all your work is done. You must attend and participate in the lab to receive credit for the lab. There are **NO** make ups for missed labs. Lab documents will be available in Moodle and will be filled out digitally during lab or after lab, and submitted via Moodle.

**Missing Lab: You must attend and complete 7 of the 10 labs in order to pass the class.**

**Online Homework:** This class has an online homework requirement. You will be able to access the assignments through the course Moodle site. Each week you will have 20-30 questions within Moodle relating to the weekly material

### **Cell Phones**

Cell phones are NOT allowed in class. Please turn off your phone before class so it will not ring and disrupt the class. **Text messaging** is not allowed! I can tell when you are doing it and I will ask you to stop during class, possibly calling unwanted attention to you. Do not leave the class to use your cell phone; class is only 50 minutes long so you can check your messages after class.

**Attendance:** You should try to attend or watch recordings of all lectures. Lab attendance is highly recommended, as there are no lab makeups..

**Course Evaluations:** Student feedback is important to improve this course and to help the instructor know how to change teaching methods. Changes will and have actually occurred as a result of student feedback. Starting this term student evaluations of teaching (SET) will be done electronically. It will be active weeks 5 - 9 of the term. The system is anonymous, and can be done from any electronic device. You will receive email notifications for each of your classes, please fill these surveys out in a timely manner – it takes approximately 10 minutes per each class and is a highly valued resource for guiding the progress and evolution of the course. Thank you in advance for your input!

**Academic Misconduct:** This will not be tolerated and includes any form of cheating. The student is encouraged to read the college catalog for further details. If a student is found to have cheated on an exam, after due process the resulting grade may be a zero on the exam or quiz. All group work should still be written in the student's own handwriting and language. You must turn in your own interpretation and work even if doing teamwork projects. Repeat violations of this policy will be

referred to the Dean of Science, Engineering and Technology Division. Violations of academic honesty will be met with severe measures that may include failing the assessment, the course or expulsion from the college. Academic misconduct includes using ANY electronic device during exams, quizzes or to answer in lab summary questions.

**Basic Needs Syllabus Statement:** Any student who has difficulty affording groceries or accessing sufficient food to eat every day, or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to contact the Roadrunner Resource Center for support ([resources@linnbenton.edu](mailto:resources@linnbenton.edu) , or visit us on the web [www.linnbenton.edu/RRC](http://www.linnbenton.edu/RRC) under Student Support for Current Students). Our office can help students get connected to resources to help. Furthermore, please notify the professor if you are comfortable in doing so. This will enable them to provide any resources that they may possess.

**Withdrawing from Classes (Dropping a Class After the Refund Deadline)**

To drop a class or withdraw from school, you may turn in a Schedule Change form at the Registration Counter or at a community center or use the Webrunner system. If you withdraw from a course after the refund deadline, you will receive a "W" grade in the class, you will forfeit all claims to refunds, and you will be financially responsible for any tuition and fees. The last day to drop a class and receive a tuition refund is the Monday of the 2<sup>nd</sup> week. The last day to withdraw (no refund) is the last day of week 7.

**Special Accommodations and Disability Services:** LBCC is committed to inclusiveness and equal access to higher education. If you have approved accommodations through the Center for Accessibility Resources (CFAR) and would like to use your accommodations in the class, please talk to your instructor as soon as possible to discuss your needs. If you believe you may need accommodations but are not yet registered with CFAR, please visit the [CFAR Website](#) for steps on how to apply for services or call 541-917-4789.

Linn-Benton Community College is an equal opportunity educator and employer.

# BI 222 Lecture Schedule and Readings Assignments

Winter 2021 (Subject to change)

Warren Coffeen, [coffeew@linnbenton.edu](mailto:coffeew@linnbenton.edu)

Week	Monday	Wed or Thurs (LAB)	Friday
1 1/4-1/8	<b>Topic 1: Cell Structure and Function</b> <a href="#">OS</a> , <a href="#">LT</a> (4.2-4.6) <a href="#">Kimb.</a>	<b>Lab 1: Plant Nutrition Setup</b>	<b>Topic 2: Transport Across Membranes</b> <a href="#">OS</a> , <a href="#">LT</a> (5.1-5.4), <a href="#">Kimb.</a> <b>QUIZ 1</b>
2 1/11-1/15	<b>Topic 2 cont.</b> <b>Topic 3: Cell Communication</b> <a href="#">OS</a> , <a href="#">LT</a> (9.1-9.3), <a href="#">Kimb.</a> (4.13-4.14)	<b>Lab 2: Cells and Osmosis</b>	<b>Topic 3: Cell Communication</b> <b>Topic 4: Homeostasis and Body Plan</b> <a href="#">OS</a> , <a href="#">LT</a> <b>QUIZ 2</b>
3 1/18-1/22	<b>Topic 5: Plant Structure and Growth</b> <a href="#">OS</a> , (30.1-30.4) <a href="#">LT</a> (+30.5) <a href="#">Kimb.</a> (16.1 & 16.4a) (Holiday Monday, lecture on Tuesday)	<b>Lab 3: Biological Solutions and Lab Calculations</b>	<b>Topic 6: Plant Transport</b> <b>QUIZ 3</b>
4 1/25-1/29	<b>Topic 6: Plant Transport</b>	<b>Lab 4: Plant Form and Function</b>	<b>EXAM #1</b>
5 2/1-2/5	<b>Topic 7: Plant Nutrition</b> <a href="#">OS</a> (31) <a href="#">LT</a>	<b>Lab 5: Plant Breathing - Stomata</b>	<b>Topic 8: Sensory Systems in Plants</b> <a href="#">OS</a> , (30.6), <a href="#">LT</a> (30.7) <a href="#">Kimb.</a> 16.4c, 16.4e, 16.2f, 16.5(a-e) <b>QUIZ 4</b>
6 2/8-2/12	<b>Topic 8: Sensory Systems in Plants</b>	<b>Lab 6: Plant Nutrition Finish, Water Potential Start</b>	<b>Topic 9: Tissues &amp; Musculoskeletal System</b> <a href="#">OS</a> : <a href="#">33.2</a> , <a href="#">38</a> <a href="#">LT</a> : <a href="#">33.2</a> , <a href="#">38</a> <a href="#">Kimb</a> <a href="#">15.10A,B</a> <b>QUIZ 5</b>
7 2/15-2/19	Holiday Monday	<b>Lab 7: Potato Water Potential</b>	<b>Topic 9 cont.</b> <b>Topic 10: Respiratory System</b> <a href="#">OS</a> : <a href="#">39</a> <a href="#">LT</a> : <a href="#">39</a> <a href="#">Kimb</a> <a href="#">15.2</a> <b>QUIZ 6</b>
8 2/22-2/26	<b>Topic 10 cont.</b> <b>Topic 11: Circulatory System</b>	<b>Lab 8: Bones and Skeletons</b>	<b>EXAM #2</b>
9 3/1-3/5	<b>Topic 11 cont.</b>	<b>Lab 9: Circulatory System</b>	<b>Topic 11 cont.</b> <b>Topic 12: Digestive System</b> <b>QUIZ 7</b>
10 3/8-3/12	<b>Topic 12 cont.</b>	<b>Lab 10: Nutrition and Final Review</b>	<b>Topic 12 cont.</b> <b>QUIZ 8</b>
11 3/15-3/17	<b>FINAL EXAM</b> <b>Monday, March 15<sup>th</sup> Times TBA</b> Comprehensive Final		