**BI 212—PRINCIPLES OF BIOLOGY**

**LBCC, Winter 2020**

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

Office: WOH 221

Phone: email please

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

**Office Hours: Mon 10-11; Wed 12-1**

You may also contact me via email to schedule an appointment, or you can schedule an appointment through my instructor website: [http://cf.linnbenton.edu/artcom/find\_instr.cfm](http://cf.linnbenton.edu/mathsci/bio/coffeew/web.cfm?pgID=3083)

**CRNs:** 30296, 30297, 30298, 30299, 30437, 30707, 32771, 32772

**Schedule:**

Lecture in WOH 212 **MWF** 11-11:50 AM

1-1:50 PM

Labs in WOH 214 **Wednesday** 2 PM and **Thursday** 8, 11, and 2. All labs are 2 hours and 50 minutes

# Corequisite: The corequisite for BI 212 is a term of college chemistry (CH112, CH150, CH121 or CH221).

**Required textbooks:**

\*[OpenStax Biology](https://openstax.org/details/books/biology-2e) Free Online book. Or any majors biology book (such as Campbell Biology or Raven Biology)

\* Weekly Homework in Moodle

\* BI 212 Course Packet, by Warren Coffeen and Richard Liebaert, available from the LBCC Bookstore.

**Assessments**: (subject to change)

Labs (8 pts / lab) = 80 points

Homework = 40-60 points

7 Quizzes@ 10 points each = 70 points

3 exams @ 50 points each = 150 points

Final Comprehensive exam = 100 points

**Total = 440-470 points**

**Grading Scheme:**

90 - 100% A

80 – 89% B

70 – 79% C

60 – 69% D

59.9 % and below F

**Course Learning Outcomes:**

* List and explain the importance of the four major biochemical groups.
* Sequence key cellular processes.
* Relate structure to function for major plant organ systems.
* Relate structure to function for major animal organ systems.

**Quizzes and Exams**

There will be seven quizzes and three exams throughout the term. Quizzes and exams will cover material from lecture and from assigned reading in the book. Quizzes will be given at the beginning of class (check schedule for days). If you miss a quiz or exam, please contact me immediately to set up a time for you to take a makeup. No makeups once the quiz or exam has been handed back to class.

**Labs:** All labs are three 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** makeups for missed labs. Labs will be due either the same day or the next class meeting. The biology department has a policy on lab attendance - you must attend at least 60% (6 out of 10) of the labs to pass the class. If you attend less than 60% you will not pass the course.

**Online Homework:** This class has an online homework requirement. You will be able to access the assignments through the course Moodle site.

**Late Work:** Lab reports are to be turned in at the beginning of class on their due date. Late lab reports will be accepted but with a substantial point reduction. If they are turned in late on the day they are due (i.e. during or after class), they will be reduced by 25%; if they are turned in the next day, 50% of the point value will be removed; two days late 75% removed.

**Pre-Lab Assignment**

Each Monday I will give you *four* questions that pertain to the weeks lab. At the beginning of each lab, the questions will be graded in class, and then turned in. In order to receive credit you will need to be present and on time. Each pre-lab assignment will be worth two points.

**Assigned Reading**

For each lecture topic there will be assigned pages in the textbook for you to read. Not all of the pages will be covered in lecture, but you will be responsible for all the material!

**Extra Credit:** On a few occasions such as on the exams there may be extra credit, which will be high-challenge questions that can aid your score. This credit will generally not influence a grade more than 2-4% for the overall grade, but it could make a big difference in borderline grade situations. Extra Credit will NOT be issued or allowed for missed work – there are no exceptions to this rule. My general policy for all students is that “I cannot do for one student what I cannot do for all.” Please do not ask for exceptions due to poor performance, no extra credit work will be granted.

**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 are expected to attend all lectures. No grade will be assigned for attendance but to do well in this course it is expected that you will attend ALL lectures and labs. If a situation arises that makes it necessary to miss a class it is the student’s responsibility to obtain notes from a peer. Please read the attendance policy in the college catalog for details.

**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 devices during exams, quizzes or to answer in lab summary questions.

**Incomplete Policy**: An incomplete (IN) will only be issued when a student is unable to complete the last exam by the end of the term, and each incomplete grade will be accompanied by a signed contract specifying the conditions necessary to complete the course. The Y grade can only be issued if the student has attended no more than 25% of class time and less than 25% of the coursework was submitted.

**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 an 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 2nd week. The last day to withdraw (no refund) is last day of week 7.

**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 , or visit us on the web 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.

**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](http://www.linnbenton.edu/cfar) for steps on how to apply for services or call 541-917-4789.

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

**Tentative Schedule**

**Winter 2020 BI 212**

**Chapters from OpenStax Biology**

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| **Week** | **Monday** | **Wednesday** | **Wed/Thurs (LAB)** | **Friday** |
| 1  1/6-1/10 | **Course Introduction**  [**Water and Bonds**](https://docs.google.com/document/d/1eh7_z1v8Q1TYMA-ARIKaBLVvyMgz9SXAWwmFv06hEoY/edit?usp=sharing)  Ch 2 (2) | **Macromolecules**  Ch 3 (3) | Lab 1: **Calculations &**  **Macromolecules**  **(Ch 2 & 3)** | **Macromolecules** **cont.**  **QUIZ 1** |
| 2  1/13-1/17 | **Macromolecules cont.**  **Cell Structure & Function**  Ch 4 (4) | **Cell Structure & Function cont.** | Lab 2: **Exploring Cells**  **(Ch 4)** | **Membranes & Cell Signaling**  Ch 5 (5)  **QUIZ 2** |
| 3  1/20-1/24 | **No Class**  **MLK Day** | **Memb. & Sign. cont.** | Lab 3: **Catalase Enzyme (Ch 6)** | **EXAM #1** |
| 4  1/29-1/31 | **Cellular Respiration**  Ch 7 (7) | **Respiration cont.** | Lab Handout:  **Respiration &**  **Plant Nutrition (Ch 7)** | **Photosynthesis**  Ch 8 (8)  **QUIZ 3** |
| 5  2/3-2/7 | **Photosynthesis cont.** | **Plant Structure & Growth** Ch 30.1-30.4  (Ch 36:731-751) | Lab 4: **Photosynthesis**  **(Ch 8)** | **Plant Transport**  Ch 30.5 (Ch 37:756-770)  **QUIZ 4** |
| 6  2/10-2/14 | **Plant Transport cont.** | **Sensory Systems in Plants** Ch 30.6  (Ch 40:802-826) | Lab 5: **Plant Anatomy**  **(Ch 30 (36))** | **EXAM #2** |
| 7  2/17-2/21 | **No Class**  **Presidents’ Day** | **Sensory Systems cont.** | Lab 6: **Potato Water Potential (Ch 30.5)** | **Sensory Systems cont.**  **QUIZ 5** |
| 8  2/24-2/28 | **Tissues, Diffusion, Thermoregulation & Homeostasis**  Ch 33 (Ch 42:862-881) | **Circulatory System**  Ch 40 (Ch 49:1018-1033) | Lab 8: **Skeletal System**  **(Ch 38, (46))** | **Circulatory cont**.  **QUIZ 6** |
| 9  3/3-3/7 | **Respiratory System**  Ch 39 (Ch 48:1001-1015) | **Respiratory cont.** | Lab 9: **Circulation**  **(Ch 40)** | **EXAM #3** |
| 10  3/10-3/14 | **Digestive System**  Ch 34 (Ch 47:981-997) | **Digestive con’t** | Lab 10: **Digestive** | **Digestive con’t**  **QUIZ 7** |
| 11  3/17-3/21 | **FINAL EXAM**  **11:00 AM Lecture: Monday, March 16th  10 – 11:50 AM**  **1:00 PM Lecture: Monday, March 16th 1 – 2:50 PM**  Rm: WOH 212, Comprehensive Final | | | |