

General Biology: BI 102

LBCC, Fall 2015

Instructor: Warren Coffeen
Office: WOH 221
Email: coffeew@linnbenton.edu

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

You may also contact me (via email) to make an appointment outside of these office hours.

Schedule:

Lecture: **M:** WOH 205 8:30 – 9:50 am
Lecture: **W:** WOH 205..... 8:30 – 9:50 am
Lab: **F:** WOH 205 8:00 – 9:50 am

Grading (subject to change):

8 Labs @ 6 pts each	= 48 points
Online Homework (~10%)	= 40 points
5 Quizzes @ 10 points each	= 50 points
3 exams @ 50 points each	= 150 points
Final Comprehensive exam	= 100 points
Total	= 388 points

Introduction:

General Biology 102 is a course designed to help the learner discover the workings of the scientific process from a biological perspective. This course is designed for students at Linn-Benton Community College who are *non-science majors*. Students typically have little to no science background, yet are enrolled in this course to fulfill requirements needed for a degree and who desire to expand their knowledge and appreciation of the biological sciences. This course will fulfill your laboratory science distribution requirements at LBCC. This course focuses on processes of biology including understanding the importance of DNA, synthesis of other biological molecules, cell division, genetics, adaptation and evolution. Along with acquiring working knowledge of biological systems, a major goal of this course is for students to complete the course with an appreciation for, and enjoyment of, the day-to-day integration of biology into all aspects of their lives.

Course Learning Outcomes:

- Distinguish between the groups of biomolecules
- Be able describe selected key cell processes
- Be able to describe the patterns of inheritance
- Express how changes in the genome can affect the phenotype or traits within a population
- Explain how natural selection drives evolution

Quizzes:

As noted on the syllabus there will be 5 quizzes over reading and lecture material. It should be presumed unless your instructor tells you otherwise that the quiz will be over the reading and lecture material covered in the prior class(es). The quizzes will be closed book and closed note. You will be given 10 minutes at the **beginning** of the lecture day for taking the quiz.

Labs:

Labs are a critical component for the learning processes in any science class. They provide hands-on experience requiring students to make critical thinking decisions that may influence the outcome of the lab. Students are also required to analyze and interpret data. Therefore, because it is imperative for students to come prepared each lab period, pre-laboratory assignments are to be turned in at the beginning of each lab. The pre-labs are usually the first one or two pages of each lab in the lab packet. Each lab is worth 6 points. There are nine (9) labs in the term but you will **only be graded on your 8** highest point total labs. You will be responsible for the material from all nine (9) labs on the exams.

Recommended Prerequisite: MTH 060

BI102 is taught as a discrete and separate course in biology. It is not necessary to have any other biology courses (BI101 or BI103) before taking this course.

Texts: (all Required)

- OpenStax free textbook: Concepts of Biology, <https://openstaxcollege.org/books>
- Mastering Biology Online Homework: http://www.pearsoncustom.com/or/lbcc_biology
- Lab Packet BI 102 General Biology Laboratory Course Packet: LBCC Biology Department

Online Homework: This class has an online homework requirement. You will purchase it through this website: http://www.pearsoncustom.com/or/lbcc_biology
Details will be discussed the first day of class.

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!**

Laptops: Laptops are allowed in class but must be used only for class-related activities, such as taking notes or accessing online assignments (when instructor is not talking).

Missed and late work: Late work (assignments and labs) will be accepted one day late (next class period), with a 20% point reduction. Missed assignments or labs cannot be made up. If you miss an exam or quiz you need to contact me as soon as possible to schedule a makeup time. No make-ups will be given after the quiz or exam is handed back. **The online homework will be automatically submitted on the due date.**

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 team work 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.

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 course work 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.

Special Accommodations and Disability Services: Students who may need accommodations due to documented disabilities, who have medical information which the instructor should know, or who need special arrangements in an emergency, should speak with the instructor during the first week of class. If you have not accessed services and think you may need them, please contact Disability Services, 917-4789.

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

Tentative Schedule, BI 102
WOH 205, Mon/Wed 8:30-9:50; Fri 8-9:50
Warren Coffeen, Office: WOH 221
coffeew@linnbenton.edu

	Monday and Wednesday	Friday (LAB)
Week 1	<u>Sept 28 & Sept 30</u> Course Introduction, Atoms, & Macromolecules Ch 1.2; Ch 2.2, 2.3	<u>Oct 2</u> Lab 1: Cells & Osmosis
Week 2	<u>Oct 5 & 7</u> Cells and Cell Membranes Ch 3.2 – 3.6 Quiz 1 (Monday)	<u>Oct 9</u> Lab 2: Enzymes
Week 3	<u>Oct 12 & 14</u> Exam 1 (Monday) Enzymes, Photosynthesis & Cell Respiration Ch 4.1 – 4.2, Ch 5.1	<u>Oct 16</u> Lab 3: Photosynthesis
Week 4	<u>Oct 19 & 21</u> Cell Division & Genetics Ch 6.2, Ch 7.1, 7.2 Quiz 2 (Wednesday)	<u>Oct 23</u> Lab 4: Cell Division
Week 5	<u>Oct 26 & 28</u> Genetics Con't Ch 8.1 – 8.3, Ch 7.3 Quiz 3 (Wednesday)	<u>Oct 30</u> Lab 5: Genetics
Week 6	<u>Nov 2 & 4</u> Exam 2 (Monday) DNA, Genetic Code, & Making Proteins Ch 9.1, 9.4	<u>Nov 6</u> Lab 6: Human Genetics - Height
Week 7	<u>Nov 9 & 11 (Veterans Day, no school)</u> Biotechnology Ch 10.1 – 10.3	<u>Nov 13</u> Lab 7: DNA Gel Electrophoresis
Week 8	<u>Nov 16 & 18</u> Darwin & Evolution Ch 11.1, 11.3 Quiz 4 (Monday)	<u>Nov 20</u> Lab 8: Natural Selection
Week 9	<u>Nov 23 & 25</u> Exam 3 (Monday) How Populations Evolve Ch 11.2	<u>Nov 27</u> <u>Holiday: Thanksgiving</u>
Week 10	<u>Nov 30 & 2</u> Evolution of New Species Ch 11.4 Review for Final Quiz 5 (Wednesday)	<u>Dec 4</u> Lab 9: Population Genetics
Week 11	<u>Final Exam</u> Wednesday Dec 9th , 8:00 - 9:50 AM 50% new material, 50% old material	