

BI 102 (General Biology) Syllabus

Fall 2015

Class Times

Tuesdays and Thursdays 11: 30 – 1:50

Instructor: Heather Sapp

Office: BC 201

Email: sapph@linnbenton.edu

Office hours: Thursdays 2 – 3 pm, or by appointment

Texts/Materials, Required:

1. *Biology: Life of Earth with Physiology*; custom edition by Audesirk, Audesirk and Byers (includes access to Mastering Biology)
2. BI 102 General Biology Lab Packet

Introduction:

This course is part of a three-course sequence of General Biology (101, 102, 103), and these courses may be taken in any order. BI 102 is an introduction to cell biology, genetics and evolution. This course is intended for NON-science majors, and aims to give students an appreciation for how biology affects and influences our day-to-day lives.

Course Outcomes:

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

Grading:

Labs: 9 at 10 pts each	= 90 pts	
Pre-lab assignments: 9 at 2 pts each	= 18 pts	A = 90-100%
In-class discussions and activities	= 50 pts	B = 80-89 %
Online homework completion	= 50 pts	C = 70-79%
Quizzes: 8 at 15 pts each	= 120 pts	D = 60-69%
Midterms: 2 at 75 pts each	= 150 pts	F = <60%
Final comprehensive exam	= 150 pts	
Total	628 pts	

The total points for in-class activities and discussions may be slightly different at the end of the term. As with the course schedule, the point distribution is subject to minor changes. The **final exam is a comprehensive test, meaning all material covered this quarter will be covered.

Labs:

Labs are an essential hands-on learning component of science classes. These labs are designed to help you develop critical thinking, analysis, and data interpretation skills. In order to ensure students come to labs prepared, there are pre-lab assignments found at the beginning of each lab in your lab manual that will be turned in **at the beginning of each lab period**. Lab material will be included on your midterms and final exam.

PLEASE NOTE: missing more than 3 labs will result in an automatic F in the course.

Quizzes:

As noted above, there will be quizzes over the reading and lecture material. Quizzes will be over the reading and lecture material covered in the prior class that week. The quizzes will be posted on Moodle and open only on the day posted. Quizzes must be completed on the day assigned. No make-ups will be given. These are intended to be closed note quizzes, so you only have 30 minutes to finish the quiz once you start, so please prepare ahead of time. Quizzes will be available from 2 am until 11:59 pm each Friday

Homework:

Homework assignments must be typed or neatly written, and spell checked, in order to be accepted. They will be turned in at the beginning of the class period they are due. Late assignments will not be accepted. If you will be missing class on the day an assignment is due, you can drop it off early, email it to your instructor, or have a classmate turn it in for you.

Missed and late work:

Late assignments will not be accepted unless the instructor has given prior approval. There will be no make-up assignments allowed unless there are extreme circumstances that have been discussed with the instructor. This includes exams!

Cell phones and laptops:

Cell phones are NOT allowed in class. Please turn off your phone before class so that is not a disruption. Text messaging is not allowed during class at any time. Cell phones are not allowed to be used as a calculator on exams.

Laptops and tablets are allowed in the class as long as they are being used for class related activities (taking notes, accessing online assignments, etc.) as long as there is not a test in progress. If you are using your phone, laptop or tablet inappropriately, you will get one warning before being dismissed from the class.

Disabilities Services and Emergency Planning- Meet with Instructor Week One:

If you have emergency medical information for your instructor, need special arrangements to evacuate campus, or have a documented disability, please meet with your instructor, by appointment, no later than the first week of the term, to discuss your needs. If you have a documented disability that will impact you at college and you seek accommodations, contact the Office of Disability Services (ODS) for intake and to document your disability with LBCC. Then, each term, at least two to three weeks prior to the start of classes, submit your “Request for Accommodations” form to ODS and pickup instructor letters. ODS may be reached from any LBCC campus/center by email to ODS@linnbenton.edu or by calling 917-4789. Letter pickup is available at each LBCC campus/center.

Statement of Inclusion:

The LBCC community is enriched by diversity. Each individual has worth and makes contributions to create that diversity at the college. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill. (related to Board Policy #1015)

Tentative Schedule BI 102

	Week of	Tuesday	Thursday	Friday
1	Sept. 28th	Membranes and Osmosis (Ch 5)	Pre-lab 1 Lab 1 Cells and Osmosis	Moodle Quiz 1
2	Oct. 5th	Cell Structure and Function (Ch. 4) Biological Molecules (Ch. 3)	Pre-lab 2 Lab 2 Enzymes	Moodle Quiz 2
3	Oct. 12th	Metabolism (Ch. 6) Photosynthesis (Ch. 7) Cellular Respiration (Ch. 8)	Pre-lab 3 Lab 3 Photosynthesis	Moodle Quiz 3
4	Oct. 19th	Midterm 1 Mitosis and Meiosis (Ch. 9)	Pre-lab 4 Lab 4 Mitosis and Meiosis	Moodle Quiz 4
5	Oct. 26th	Genetics (Ch. 10)	Pre-lab 5 Lab 5 Plant Genetics	Moodle Quiz 5
6	Nov. 2nd	Inheritance and Genetic Disorders (Ch. 10) DNA (Ch. 11)	Pre-lab 6 Lab 6 Human Genetics	Moodle Quiz 6
7	Nov. 9th	Midterm 2 Transcription / Translation (Ch. 12)	Pre-lab 7 Lab 7 Electrophoresis	Moodle Quiz 7
8	Nov. 16th	Evolution and Natural Selection (Ch. 14)	Pre-lab 8 Lab 8 Natural Selection	Moodle Quiz 8
9	Nov. 23rd	Evolution and Natural Selection (Ch. 14) Population Genetics (Ch. 15)	Holiday, school closed	
10	Nov. 30th	Speciation (Ch. 16)	Pre-Lab 9 Lab 9 Population Genetics	Moodle Quiz 9
11	Dec. 7th	Final Exam 12:30 – 2:20		