General Biology: BI 102
LBCC, Fall 2015

Instructor: Nate Miller
Office: White Oak Hall 220
Phone: (541) 754-6352
Email: millern@linnbenton.edu

Office Hours: **Monday, and Wednesday 2:30**

I will be available before class in the classroom. You may also contact me (via email or phone) to make an appointment outside of these office hours.

Introduction:

General Biology 102 is a course designed for non-science major students who wish to expand their knowledge of biology. The primary objectives are to learn principle biological processes and to understand the process of scientific inquiry. The information you learn in this course is available as a result of many years of study by countless scientists and their ability to ask questions about the world around them as well as their ability to apply the scientific method in order to answer those questions. Therefore understanding the inquiry process is an important skill needed to understand how scientific information is gathered, and to interpret the world you live in. Course topics include the importance of DNA, synthesis of other biological molecules, cell division, genetics, adaptation and evolution.

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. There are 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 9 labs on the exams.
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.

Grading: Percentage of final grade:

9 Labs, drop the lowest one	= 10%
In class activities	= 15%
Connect homework	= 10%
2 midterm exams	= 40%
Final Comprehensive exam	= 25%

Texts: Biology Life on Earth with Physiology 10th edition, custom for LBCC. Audesirk, Audesirk and Byers. Pearson

- Lab Packet BI 102 General Biology Laboratory Course Packet: LBCC Biology Department – ***Required***
- Online materials: Weekly activities are expected online at the following website.
- http://www.pearsonmylabandmastering.com/northamerica/masteringbiology/students/get-registered/index.html

- Course ID "MBMILLERBI102FALL2015"

- The access code is within your text. The book is nonreturnable and costs about $90

The activities open Saturday morning and are due Sunday evening of the following week. The homework activities open on Saturday morning and are open till Sunday night at midnight of the following week. Below is the link to the section website for this class.

Grading Scheme:

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

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!** If you have emergency situations that require you to be in contact, please sit close to the door and leave the room to use the phone.

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).

Disability Services
You should meet with your instructor during the first week of class if:
- You have a documented disability and need accommodations,
- Your instructor needs to know medical information about you, or
- You need special arrangements in the event of an emergency.

If you have not accessed services and think you may need them, please contact Disability Services at 917-4789. If you have documented your disability, remember that you must complete a Request for Accommodations form every term in order to receive accommodations.
Linn-Benton Community College is an equal opportunity educator and employer.

Academic integrity
I have a great deal of respect for all my students and treat everyone as adults. In return, I expect everyone to behave like adults. Respect towards everyone in the classroom is the first rule in my classroom. If you cheat on exams you are disrespecting yourself, your fellow students and me. During exams you are not allowed to have electronic devices, notes, sunglasses, hats or any other trick.

Outcomes: These are the outcomes that will be assessed department wide
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 describe selected key cell processes
Distinguish between the groups of biomolecules

Tentative Schedule
General Biology 102
Exams are on Wednesday!

Week of	IN CLASS	LAB
Week 1 Sep 27	Course Introduction. Introduction to biology Macromolecules	**Lab 1: Understanding Cells**
Week 2 Oct 4	Cells Cell Membranes	**Lab 2: Enzymes**
Week 3 Oct 11	Cellular Respiration & Photosynthesis ,	**Lab 3: Photosynthesis**
Week 4 Oct 18	**Exam 1** Cell Division & Cancer Genetic Inheritance	**Lab 4: Mitosis & Meiosis**
Week 5 Oct 25	Sex Inheritance & Chromosomes	**Lab 5: Plant Genetics**
Week 6 Nov 1	DNA The Genetic Code and Making Proteins	**Lab 6: Human Genetics**
Week 7 Nov 8	Biotechnology	**Lab 7: Electrophoresis**
Week 8 Nov 15	**Exam 2** Principles of Evolution	**Lab 8: Natural Selection**
Week 9 Nov 22	Population Genetics	**Lab 9: Population Genetics**
Week 10 Nov 29	The Origin of Species	**Lab 10: Fossils**
Final Exam Wednesday December 2, 3:00 PM		