**BI 102 General Biology Syllabus**  **Winter Term 2020**

4 credits, CRN:

Instructor: Ms. Michelle J. Zamarron MS.BIO email: zamarrm@linnbenton.edu

Phone: (956) 375-7920 (can text to contact)

Class Time: Lebanon satellite campus 205: Monday Lecture – 5:30pm -7:50pm; Wednesday Lab – 5:30pm – 7:50pm.

Office Hours: At Lebanon Satellite campus: Office #: 206

Times: Monday – 3-5pm; Wednesday 3-5PM

**Materials (required)**:

* “Concepts of Biology”, available **free** online at: <https://openstax.org/details/books/concepts-biology> (or for purchase at the bookstore)
* access to Moodle online
* BI 102 lab packet
* spirals – one for lecture notes

**Course outcomes**:

 Upon successful completion of this course, students will be able to:

1. Distinguish between the groups of biomolecules.
2. Describe selected key cell processes.
3. Describe patterns of inheritance.
4. Express how changes in the genome can affect the phenotype or traits within a population.
5. Explain how natural selection drives evolution.

**Nature of course content, topics and order covered**: This is an Introductory Biology course aimed at teaching and increasing your awareness and understanding of major biological topics: molecular and cellular biology, classical genetics, mutations, and the evolutionary process. The course is an opportunity to explore and learn how these processes are part of our daily lives. The number of topics and chapters covered will depend on how quickly we are able to move through the material throughout the term.

**Method of evaluation**: May be adjusted after discussion with class

Assignments 100 pts (lecture and lab various assignments TBA)

Labs – Pre-Lab  100 pts (10 pts per lab / 8 labs + 2 take home assignments)

Group PowerPoint Presentation 100 pts (topic given in class-will explain in class)

Attendance 50 pts (5pts possible per quiz / 10 total

Lecture Exams 200 pts (100 pts possible per exam / 2 exams)

Final Exam 150 pts (comprehensive)

In-class activities    50 pts (Lecture activities in class participation)

**TOTAL 750 pts (total points possible for term grade)**

**Note: Distribution of points is subject to minor changes**

**Grading:  A= 90–100%, B= 80–89%, C= 70–79 %, D= 60–69%, F= 0–59%**

**NO Dropping of Lowest Grade, NO Extra Credit Assignments** – You need to take OWNERSHIP of your academic career – the time and effort that you put into the class will be reflected by the final grade that you earn –

 I am not here to be an obstacle to your success, I am here to facilitate learning of the material and to be of assistance in any way that I can to help you learn and matriculate academically through this goal, and be on your way to the next exciting phase of your academic and professional career.

\*\*Talk to Me! I am a fountain of information – you need only to ask.

**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 must attend 60% (5 out of the 8) of the labs to pass the lab portion of the class. Pre-lab assignments are to be turned in at the beginning of each lab. Each lab is worth 10 points and will be graded using the following rubric:

* Pre Lab:  2 pts
* Lab:  4 pts—Understanding the objective and completing the lab. This will be done in class and be completed before class is over.
* Lab Report:  4 pts—These questions will your understanding of the lab. I will be looking for well-thought-out answers that show you understand the purpose of the lab. You can only turn this in if you have attended and completed the lab. It will be due the following class.

**Quizzes**: Quizzes will be given throughout the term to assess how you are doing before we get to an exam. Quizzes will be given at the beginning of class, so if you arrive late you will have less time to complete them which mean less points that you will have a chance to earn. The quiz given out may also be of a group nature – where 3 students will work together on the question given with the three students in the group earning the same grade for the “group” quiz.

**Exams:** There will be two exams during the term and one comprehensive final exam. Exam dates are listed in the class schedule (last page of the syllabus), however this schedule of topics and exams is “tentative” meaning that we may need to change exam dates if students require additional time for comprehension of a specific topic. This will be decided as a whole class with discussion of pros and cons of changing date etc..If I am notified in advance that you cannot make it to an exam because of an unforeseen emergency, you will be given a makeup exam. **Note, however, that a makeup exam cannot be given once exams have been handed back.**

**Study skills:** You should be reading, practicing, critically thinking on what you learn, discussing the information with your classmates and friends, exploring the material with outside sources, and maybe even drawing, writing, singing, acting out, dancing, or any other means of helping yourself understand and remember the material that you may find works for you. Not every study method works for everyone. If you need help with study methods, please come speak with me, and I will give some suggestions and examples of tricks I have learned over the years to remember information.

The Learning Center (second floor of Willamette Hall) and Writing Center are also great resources here at LBCC. Please speak with me if you want more information about these.

**Policies**

**Attendance:** You are college students, and a part of your college experience is determining how you learn best**. I do require attendance**, which means it is up to you to decide what is in your best interest. This course will cover a lot of ground very quickly and the exams will draw from all class material: chapter readings, lectures and PowerPoint presentations, videos, animations, and classroom discussion – in other words – everything is fair game on an exam – however, I will give exam reviews the week before an exam. Participation in class discussions and group activities in class is a good way to stay on top of the material, to understand the material not just try to memorize – critical thinking questions will be part of exams and group work.

**Classroom etiquette:** Please act like the adults you are. Do not disrupt class. Respect others’ desire to learn. I reserve the right to ask you to leave the classroom. A behavior of students that really “grinds my gears” is when I am lecturing or giving instruction – and I look out on a sea of faces that are intently glued to the screens of their phones – Phones are to be put away – Put on vibrate or silenced during class please. Thank you!

**Late assignments are not accepted.** Please turn in assignments on time and complete. Online assignments will close at 11:55pm on the day they are due. With that being said, if you have a true emergency, please talk to me – I will try to work with students, but if it is a classic case of “the dog ate my homework” please take the zero or reduced points rather than tell me a story we both know is not true.

**Accommodations**: Students who may need accommodations due to documented disabilities, who have medical information that the instructor should know, or who need special arrangements in an emergency should speak with me during the first week of class. If you believe you may need accommodations but are not yet registered with CFAR, please visit the CFAR website at www.linnbenton.edu/cfar for steps on how to apply for services or call 541-917-4789.

**Statement of inclusion**: To promote academic excellence and learning environments that encourage multiple perspectives and the free exchange of ideas, all courses at LBCC will provide students the opportunity to interact with values, opinions, and/or beliefs different than their own in safe, positive and nurturing learning environments. LBCC is committed to producing culturally literate individuals capable of interacting, collaborating and problem-solving in an ever-changing community and diverse workforce. To that end, if a pattern of disrespect develops, I reserve the right to discuss appropriate behavioral expectations with individuals who may not fully understand this responsibility. At no time will a hostile or condescending classroom environment or discussion be permitted.

**Academic dishonesty**: Please note that I take issues of academic and personal honesty very seriously. Any discovery of academic dishonesty will result in a grade of zero for the assignment and possibly and F for the term – with possible recommendations to the administration for further consequences.

**Incomplete grade**: An incomplete (IN) grade will only be considered if a student has talked to me in advance and a signed agreement between the student and me is completed. IN grades are assigned only if the student has a good reason for making the request, has only a minor amount of coursework to complete, and has scored a C or better on work that has already been submitted.

**Title IX**

If you or another student are the victim of any form of sexual misconduct (including dating/domestic violence, stalking, sexual harassment) or any form of gender discrimination, LBCC can assist you. You can report a violation of our sexual misconduct policy directly to our Title IX Coordinator. You may also report the issue to a faculty member who is required to notify the Coordinator. You may additionally (or instead) make an appointment to speak confidentially to our Advising and Career Center by calling 541-917-4780.

**Important Date To Remember:**

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**Student Needs:**

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 me – your instructor - if you are comfortable in doing so, and I will help direct to appropriate resources on campus.

**Campus Police/Emergency Resources**

You may review emergency services and resources at the LBCC Public Safety website. Campus Safety can be reached using the “code 2” button on any campus phone or by dialing x411 on campus or 541-917-4440 off campus. Dial 911 for off campus emergencies.

I reserve the right to change the contents of this syllabus due to unforeseen circumstances. You will be given notice of relevant changes in class, through a Sapling Announcement, or through LBCC e-mail.

**Tentative Lecture and Lab Schedule WinterTerm 2020**

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|  | Monday | Wednesday |  |
| Week 1 | 01/06/2020Introduction: Science & Biology Ch1 Cells – Eukaryotic and Prokaryotic cells, Ch3 | 01/08/2020LAB: cells & osmosisMicroscopy: |  |
| Week 2 | 01/**quiz 1**Biomolecules Ch2*,* | 01/LAB: enzymes |  |
| Week 3 | 01/**quiz 2**“How Cells Obtain Energy”Cell Respiration Ch4Photosynthesis Ch5 | 01/LAB: Cell Respiration& photosynthesis |  |
| Week 4 | 2**exam 1 – covers all prior material through Photosynthesis** **quiz 3**Cell Division: Mitosis Ch6 | LAB: cell division |  |
| Week 5 | Sexual reproduction, meiosis Ch 7 **quiz 4** | 10/31GeneticsLAB: plant genetics |  |
| Week 6 | Genetics Ch 8 quiz 5 | 11/07GeneticsLAB: human genetics |  |
| Week 7 | DNA, making proteins Ch9/10 quiz 6 | 11/14DNA, biotechnologyLAB: electrophoresis |  |
| Week 8 | **exam 2**Evolution Ch11*ch11.1-11.2* | Evolution of Animals: BBCEvolution, natural selectionLAB: natural selection |  |
| Week 9 | Evolution, natural selection Ch11 quiz 9 | **Walking With Cavemen-movie**Evolution, natural selectionLAB: pop genetics | homework 7 due |
| Week 10 | Speciation quiz 10 | ReviewLAB: fossils |  |
| Week 11 | March 2020Finals Week TBAComprehensive Exam |  |  |

**Note: Chapter readings may be changed as semester progresses.**

 **Due Dates – Homework, Exams, and Assignments are subject to change (with sufficient notice) based upon advancement through assigned material for course.**