

# Biology 102: General Biology Syllabus

## Winter 2021, CRN30678

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Instructor: Dr. David Taylor  
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Office Hour: By Appointment  
Office: NA

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### Prerequisites:

MTH 65 highly recommended. Biology 101, 102 and 103 need not be taken in numerical order, but only one BI 10x theme course can be used to meet graduation requirements. If you have taken a different BI 101, Ecology and Systematics for example, this section will not fulfill any other prerequisites for your degree program.

### Required Course Materials:

1. [OpenStax Concepts of Biology](#) free online textbook
  - Links to the assigned chapters each week will be provided in Moodle.

### Learning Outcomes and Concepts

Upon successful completion of the course, students should be able to:

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

### Student Expectations

I expect you to attend class on time and for the full lab session, participate by asking and answering questions, prepare for class by completing reading and prelab assignments, and adhere to safety protocols in the laboratory environment.

### Instructor Expectations

I am here to facilitate your learning of the laboratory and course material and to be a resource for you! You can expect that I will assess your knowledge and grade your work fairly, start and end class on time, and return graded work in a timely manner.

### Communication Policy

My official LBCC email is [david.taylor@linnbenton.edu](mailto:david.taylor@linnbenton.edu). Please email me from only your official student accounts or through Moodle. I will typically respond to emails sent during the week within 24 hours, and weekend emails by Monday noon at the latest. *To ensure you get a response please make the subject of your email: BI102*

## Teaching Philosophy

I believe firmly that *Honesty*, *Curiosity*, and *Communication* are central to successful teaching and learning. I will be honest and direct in my communication with you as it relates to your learning in this course. I will be curious about you and learn who you are to create a more welcoming and engaging learning experience. Finally, I believe honesty is required to build trust, and trust is essential for a safe and productive learning environment. In summary...

### **Honesty counters Harm**

Be honest in your work (don't plagiarize, falsify, or seek advantage)

Be honest with others (lies postpone the truth until it's too late)

### **Curiosity counters Judgement**

Be curious about the world (don't take the mundane for granted)

Be curious about others (their experience isn't your experience)

### **Communication counters Insecurity and Confusion**

Communicate your work (share your discoveries and enthusiasm)

Communicate with others (let people know what they need to know to succeed)

## Diversity Statement

LBCC strives to create an affirming climate for all students including underrepresented and marginalized individuals and groups. Diversity encompasses differences in age, color, ethnicity, national origin, gender, physical or mental ability, religion, socioeconomic background, veteran status, sexual orientation, and marginalized groups. We believe diversity is the synergy, connection, acceptance, and mutual learning fostered by the interaction of different human characteristics. Harassment, discrimination, or offensive language will not be tolerated. Please do not hesitate to contact me in person, by email, if you experience or witness harassment or feel that your learning environment is unsafe.

## Academic Integrity:

Plagiarism and cheating as explained in the Student Rights, Responsibilities, and Conduct policies will not be tolerated. Examples of academic dishonesty include (but not limited to) looking at other student exams while taking the exam, submitting assignments with identical answers, and copying answers directly from the internet. If a student is found cheating on an exam or plagiarizing an assignment, after due process, a grade of zero will be given to all students involved on that exam or assignment without the opportunity to make it up, with the possibility of official intervention by the Dean of Student Affairs.

## Center for Accessibility Resources

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 for steps on how to apply for services or call (541) 917-4789.

## Evaluation of Student Performance

<b>Grading Categories</b>	<b>Points</b>	<b>Percentage of Total Grade</b>
Labs (10 @ 10 pts)	100	20%
Assignments (4 @ 10 pts)	40	8%
Attendance (10 @ 4 pts)	40	8%
Post Lesson Questions (15 @ 4 pts)	60	12%
Work Sheets (4 @ 5 pts)	20	4%
Midterm Exams (2 @ 60 pts)	120	24%
Comprehensive Final	120	24%
<b>Total</b>	<b>500</b>	<b>100%</b>

### Late work policy

Contact me before the due date, if you need extra time.

### Class Policies

#### **Lecture and Lab Attendance:**

You are expected to attend all Zoom sessions and expected to view all lecture recording. Attendance **WILL** be taken for Zoom sessions. If you need to miss one or more sessions, make these arrangements with me as soon as possible. However, to achieve success in this class, participating in class and all activities is essential. This is a lab science course, so it is expected that you complete at least 6 of the labs to gain a passing grade completion of fewer labs that this will result in an automatic fail.

If a student misses more than 4 labs, that individual will automatically fail the course regardless of the overall points for the remainder of the course. Pre-labs are due at the beginning of class on lab day and will not be accepted late for any reason. Labs are due by the following day after the lab activities have been performed.

Additional handouts will be provided in class. Lecture materials will be posted on Moodle. You are required to log onto the Moodle course associated with this CRN and check your LBCC email regularly. Failure to do so means that you will be unable to take advantage of online assignments and you will miss out on important updates and messages regarding the class.

#### **Online Course Work**

All work will be assigned through moodle and should be submitted through moodle, please do not email me your assignments. There are links to all assignment Submissions.

Labs are available on a weekly basis, and several weeks will be available at once. You are only responsible for completing 1 lab per week, although you may work ahead if you know that you need to for your schedule. All work assigned in a given week is to be completed before class the following week unless otherwise stated.

**Exams:**

All exams are online, you will have access to 1 single-sided page of handwritten notes for the exam. All other resources, notes, books, or web searches are very strongly discouraged. There will be three exams throughout the term, two midterms worth 60 points each. The final exam will be cumulative and worth 120 points. See schedule at the end of this document for specific dates. All test takers will effectively be given 1.5x time to complete the exams.

**In Class Activities:**

All Zoom sessions will involve activities relating to the topics presented the previous week. You will earn 4 points for attendance and participation for each zoom session. Missed sessions must be arranged in advance to receive credit.

**Moodle Gradebook:**

As assignments are completed and graded, your scores will be entered into the Moodle gradebook. You are encouraged to check your grade regularly and connect with your instructor if you are struggling.

**Extra Credit:**

On a few occasions on the exams and in class there may be extra credit opportunities made available, 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. Please do not ask for exceptions due to poor performance.

**Cell Phones:**

Cell phones must be silenced during class (Silenced, not just put on vibrate). You may not talk or text message at any time during class. Obviously, distractions are unavoidable in this classroom format, so please just be courteous to your classmates.

## College Policies and Resources

**LBCC Statement of Nondiscrimination:**

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, gender, gender identity, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws. For further information see [Board Policy BP-1015](#). Title II, IX, & Section 504: Scott Rolen, CC-108, 541-917-4425; Lynne Cox, T-107B, 541-917-4806, LBCC, Albany, Oregon. To report: [linnbenton-advocate.symplcity.com/public\\_report](http://linnbenton-advocate.symplcity.com/public_report)

**Title IX Reporting Policy**

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, or you may make an appointment to speak confidentially to our Advising and Career Center by calling 541-917-4780.

### **Public Safety/Campus Security/Emergency Resources:**

In an emergency, call 911. Also, call LBCC Campus Security/Public Safety at 541-926-6855 and 541-917-4440.

From any LBCC phone, you may alternatively dial extension 411 or 4440. LBCC has a public safety app available for free. You are to download it to their cell phones. Public Safety also is the home for LBCC's Lost & Found. They provide escorts for safety when needed.

### **Inclement Weather Policy:**

Only if the campus is closed will an exam be postponed, and this will occur on the next scheduled class date following the closure. If a late start is announced, classes will resume on their usual scheduled times, early labs may resume and be held if the college opens during the scheduled lab period e.g. 2 hour delay. Please listen to local media coverage for notice of closures such as T.V. & radio stations. Closure information is also posted on the LB website. Information will also be communicated through Moodle as soon as the instructor.

### **Struggling to Meet Basic Needs Outside of the Classroom?**

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 Single Stop Office for support (SinglestopatLBCC@linnbenton.edu , 541-917- 4877, or visit us on the web: [Single Stop at LBCC](#), under Student Support for Current Students). This office can help students get connected to resources to help. If you are comfortable doing so, talk to your instructor for more resources.

Week	Day	Zoom Session	Lecture Topic	Lab Topic	Assignments	Reading
Week 1	Wed. 6th	5:00 - 6:50 PM	Sci. Method, Cells, Osmosis & Diffusion	NA	Introductions Discussion Post	Unit 1: 1.2, 3.1 - 3.6
1/4 - 1/10		Check List for Week 1: ( ) Watch Lessons 1 & 2 videos. ( ) Answer Lesson 1 & 2 Post Lesson Questions. ( ) Complete Chapter Reading.				
Week 2	Wed. 13th	5:00 - 6:50 PM	Biomolecules	Understanding Cells	NA	Unit 1: 2.1 - 2.3
1/11 - 1/17		Check List for Week 2: ( ) Watch Lessons 3 & 4 video. ( ) Answer Lesson 3 & 4 Post Lesson Questions. ( ) Complete Lab 1 Module. ( ) Complete Chapter Reading. ( ) Introduction Post due				
Week 3	Wed. 20th	5:00 - 6:50 PM	Photosynthesis & Cellular Respiration	Enzymes	NA	Unit 1: 5.1 - 5.3 & 4.1 - 4.3
1/18 - 1/24		Check List for Week 3: ( ) Watch Lessons 5 & 6 videos. ( ) Answer Lesson 5 & 6 Post Lesson Questions. ( ) Complete Lab 2 Module. ( ) Submit Photosynthesis & Respiration Worksheet. ( ) Complete Chapter Reading. ( ) Midterm Exam 1 Available.				
Week 4	Wed. 27th	5:00 - 6:50 PM	Cell Division: Mitosis	Photosynthesis	Art Project	Unit 2: 6.2, 6.4 & Chapter Summary
1/25 - 1/31		Check List for Week 4: ( ) Watch Lessons 7 video. ( ) Answer Lesson 7 Post Lesson Questions. ( ) Complete Lab 3 Module. ( ) Complete Chapter Reading. ( ) Complete Midterm Exam 1.				
Week 5	Wed. 3rd	5:00 - 6:50 PM	Gametes & Meiosis	Mitosis & Meiosis	NA	Unit 2: 7.1 - 7.3
2/01 - 2/07		Check List for Week 5: ( ) Watch Lessons 8 videos. ( ) Answer Lesson 8 Post Lesson Questions. ( ) Complete Lab 4 Module. ( ) Submit Mitosis and Meiosis Worksheet. ( ) Complete Chapter Reading. ( ) Art Project Due				
Week 6	Wed. 10th	5:00 - 6:50 PM	Genetics	Plant Genetics	NA	Unit 2: 6.1, & 8.1 - 8.3
2/08 - 2/14		Check List for Week 6: ( ) Watch Lessons 9 & 10 videos. ( ) Answer Lesson 9 & 10 Post Lesson Questions. ( ) Complete Lab 5 Module. ( ) Complete Chapter Reading.				
Week 7	Wed. 17th	5:00 - 6:50 PM	DNA Replication, & Biotechnology	Inheritance of Height	News/ Media Review	Unit 3: 9.1 - 9.5, & 10.1 - 10.3
2/15 - 2/21		Check List for Week 7: ( ) Watch Lessons 11 & 12 videos. ( ) Answer Lesson 11 & 12 Post Lesson Questions. ( ) Complete Lab 6 Module. ( ) Complete Chapter Reading. ( ) Submit DNA Replication Worksheet. ( ) Midterm Exam 2 Available.				
Week 8	Wed. 24th	5:00 - 6:50 PM	Current Topics	DNA Gel Electrophoresis	NA	TBA
2/22 - 2/28		Check List for Week 8: ( ) Watch Lessons 13 video. ( ) Answer Lesson 13 Post Lesson Questions. ( ) Complete Lab 7 Module. ( ) Complete Chapter Reading. ( ) New/Media Review ( ) Complete Midterm Exam 2.				
Week 9	Wed. 3rd	5:00 - 6:50 PM	Evolution & Natural Selection	Natural Selection	Biology Memes	Unit 4: 11.1 - 11.3
3/01 - 3/07		Check List for Week 9: ( ) Watch Lessons 14 video. ( ) Answer Lesson 14 Post Lesson Questions. ( ) Complete Lab 8 Module. ( ) Complete Chapter Reading.				
Week 10	Wed. 10th	5:00 - 6:50 PM	Speciation	Population Genetics & Fossils	NA	Unit 4: 11.4 - 11.5
3/08 - 3/14		Check List for Week 10: ( ) Watch Lessons 15 video. ( ) Answer Lesson 15 Post Lesson Questions. ( ) Complete Lab 9/10 Module. ( ) Complete Chapter Reading. ( ) Biology Memes Due. ( ) Submit Natural Selection Worksheet.				
Finals Week	Tuesday 16th	( ) Complete Final Exam - Opens Tuesday & Closes Thursday. ( ) Submit Study Guides for Extra Credit				
3/15 - 3/21						