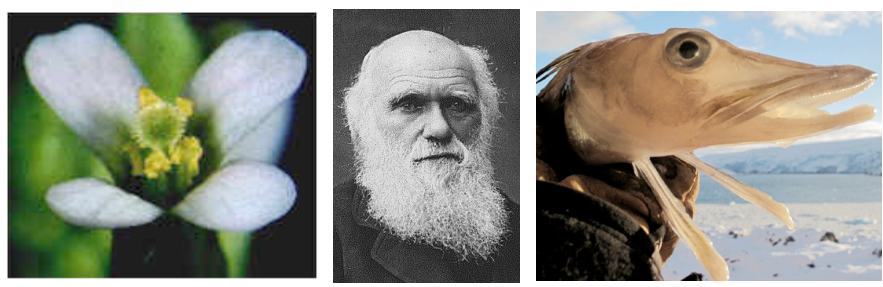
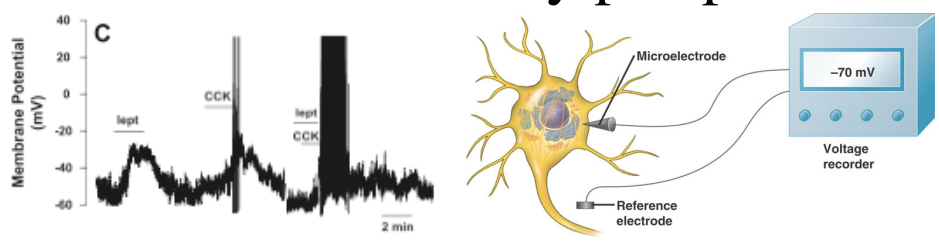


Bi212:Organisms

A CLASS COVERING PLANT & ANIMAL
PHYSIOLOGY AND DEVELOPMENT



with an evolutionary perspective



and a focus on the experimental data we use to build a scientific worldview

SYLLABUS FOR WINTER 2022

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Bi 212 General Biology II: Organisms

For more information see our

Canvas based Website

Instructor: Mark Carrier, mcarrier@uoregon.edu

541 346-4199 OFFICE: Wil 160

Bi 212 Schedule Winter 2022

Week	Lectures			Lab/ Discussion
	Date	Topics, Quizzes and Exams	Due dates	
1	1/3	Organisms & Homeostasis	1	Enzymes I
	1/5	Enzyme Kinetics	2	
	1/7	Temperature Regulation and BMR	3	
2	1/10	Metabolic thermogenesis, Saper paper	4	Flow through Membranes & writing tutorial 1
	1/12	Saper Paper and the importance of size	5	
	1/14	Plant growth and Development	6	
3	1/17	HOLIDAY, NO CLASSES		Transpiration investigation
	1/19	Transporting materials in plants	7	
	1/21	Quiz 1; Movement across membranes/Ψw	8	
4	1/24	Transporting materials in plants	9	Blood pressure and writing tutorial 2
	1/26	Transporting materials in Animals	10	
	1/28	Transporting materials in Animals	11	
5	1/31	Transporting materials in animals	12	Student Investigation: planning
	2/2	Transporting materials in animals	13	
	2/4	Midterm 1		
6	2/7	Obtaining energy and nutrients in plants	14	Data Analysis and writing tutorial 3
	2/9	Obtaining energy and nutrients in animals	15	
	2/11	Obtaining energy and nutrients in animals	16	
7	♥	Animal nutrient homeostasis	17	Student Investigation: data collection
	2/16	Animal nutrient homeostasis	18	
	2/18	Quiz 2 / Animal nutrient homeostasis	19	
8	2/21	Presidents, Plants and light	20	Student Investigation: data collection
	2/23	Auxin	21	
	2/25	Plant development	22	
9	2/28	Flowering	23	Fertilization & development
	3/2	Animal development	24	
	3/4	Midterm 2		
10	3/7	Animal development /Nervous system	25	Investigation presentations
	3/9	The nervous system	26	
	3/11	The nervous system	27	
Exam Week	3/17	Final Exam THURSDAY March 17th 10:15am		

This schedule is subject to change upon the discretion of the instructor.
but it probably won't.

Basic Course Requirements

Required materials

You will need to purchase an iClicker (*Personal Response Systems*) available at the UO Duckstore.

All other resources will be available online through the course Canvas site.

There is no mandatory textbook or course packet. I may generate a course packet if enough students would prefer purchasing some documents like lab protocols and worksheets to make it economical

Technological Requirements

This course requires that you use the Canvas website.

Log into canvas.uoregon.edu using your DuckID to access our class. If you have questions about accessing and using Canvas, visit [the Canvas support page](#). Canvas and Technology Support also is available by phone or live chat:

Monday–Sunday | 6 a.m.–12 a.m.

[541-346-4357](tel:541-346-4357) | livehelp.uoregon.edu

If you face Internet access challenges: computer labs are open for students at the Eugene campus.

Required Participation

I do not take attendance in lecture but a significant number of course points are earned during lectures through clickers and in-class assignments.

You must attend labs. Attendance is part of the lab grading evaluation process.

You are required to take quizzes and exams during class time, and to complete assignments using the Canvas website.

You are not required to attend office hours, homework sessions or reviews – but I believe these will be of great value to you if you do choose to participate.

Course Overview

The purpose of this class is to invite students to join the scientific community in our quest to use experimental data to increase our understanding of how life works.

This course is about plant and animal physiology and development. We study the constraints set by geometry, the environment, and natural laws that dictate what organisms must accomplish in order to survive and reproduce. We study the forces and machinery that allow movement across membranes, enzyme regulation and kinetics, differential gene expression, and mechanisms of cellular computation and perception. We generate models of systems that organisms use to create homeostasis, which is an internal environment in which their individual cells can participate optimally in the process of meeting the challenges of life on earth. We also study how cells manage to take on specific and unique roles in the organism, which is the study of developmental biology.

Students taking the course will learn how to carry out epistatic analyses of various biological pathways and to interpret and generate complex graphical representations of data. Students propose, design, and conduct experiments on the physiology of long-range transport in plants or animals. They analyze the data they generate and write a scientific paper describing their work. This course is part of the introductory biology sequence, and has as a prerequisite Bi211. This course is itself a prerequisite for Biology 214 (but not 213) and for the introductory human physiology sequence.

Course Prerequisites

The prerequisites for Bi 212 are C-, P, or better in Bi 211 and one term of Chemistry (111 or higher).

Bi211-214 Sequence Goals

There are three major goals for the Bi211-Bi214 sequence.

Concepts The diversity of organisms on earth is awe inspiring, but so too is the commonality of all life. We will focus the course on a reasonably small set of concepts that will help us understand how all organisms work.

To succeed in this course, students will need to demonstrate a working understanding of these major concepts, and be prepared to apply their understanding to novel situations as well as to demonstrate comprehension of these concepts in the context of examples we discuss in lecture.

Skills It is important for all citizens to be scientifically literate, whether or not they are in a science profession. Part of science literacy is the ability to find, evaluate, and communicate or act on scientific information and issues. We will practice these skills in this course. We take a quantitative approach to the study of organisms, and the skills practiced include making sense of scientific data, evaluating experimental design, understanding and generating written and graphic representation of scientific data

Science as a process: We think that it is important for all people, not just professional scientists, to understand how science works. To learn to be a better scientist you will read scientific papers and discuss not only the findings, but also how science is conducted. You will practice scientific methodology by learning to test hypotheses (even in lecture), doing controlled experiments, and evaluating observational studies. The focus of this term will be experimental design, and how we obtain evidence to test a hypothesis.

Bi212 Course Goal

Study the commonality of mechanisms used by plants and animals to meet the challenges of aquatic and terrestrial environments so we may derive or reveal the basic principles of physiology that apply to all organisms. Students will join the scientific community by participating in the principal activities of scientists.

Bi212 Course objectives

Students will:

...learn to use primary literature sources to obtain specific information that they can use to *generate models* of biological systems

...learn to *interpret* and *generate* complex graphical representations of data

...study several established models of the mechanisms used to maintain such aspects of organismal homeostasis as temperature regulation, metabolic rate regulation, blood flow regulation and plant gas exchange regulation to establish a pattern of what these processes have in common; to enable them to then *predict* how other aspects of homeostasis will be accomplished.

...learn to use single and double mutant phenotype data to *carry out epistatic analyses* and *generate models* of how physiological regulatory systems operate.

...learn and apply basic principles of enzyme kinetics to *predict* how the regulation of enzymes is used to maintain homeostasis in each of the covered physiological systems, and *identify* the types of regulation being used on the basis of experimental results.

...*Study* the regulation of metabolic processes in relation to all aspects of physiology to solidify students understanding of energy flow as a basic principle of life.

...Study the role of differential gene expression and developmental genetic pathways to *make or critique predictions* about how cells take on specific roles in multicellular organisms.

...Students investigate specific results of the experimental use of genetic constructs to alter or reveal gene expression patterns in plants and animals, and use this training to *make predictions* about the most likely outcome of experiments in which other constructs are used.

...learn to *generate hypotheses, carry out and modify experimental protocols, collect data, carry out statistical analyses, and generate papers* formatted and organized to be appropriate for a typical scientific journal.

...apply concepts of equilibrium potential and driving force to a variety of physiological systems

Bi212 Course Format

Class time (Monday, Wednesday and Friday, 10 am to 10:50 am in COL 150)

You should be familiar with the assigned readings before coming to lecture. I ask lots of clicker questions and I typically encourage students to work together to answer them. Exams and quizzes are given during lecture hours except for the final exam. Sometimes we use more than just the lecture hall for exams.

Clickers (Personal Response Systems) Clickers will be used in almost every class to encourage participation and to provide valuable feedback to instructors and students. Each student is expected to purchase a clicker for use in this class. You should register your clicker on the course Canvas site. (If you've already registered your clicker *this term*, for another class, then you don't need to register it again.) Questions during lecture that require clickers will be multiple choice.

This term the final will be given on **Thursday of finals week, March 17th 2022 at 10:15**. Our class time on days not dedicated to tests will include instructor and student-teacher guided problem-solving work in smaller groups. During class you will hear about breakthroughs in research that occur during the term, and get very relevant practice making sense of the figures, diagrams and graphs scientists use to share information with the scientific community.

Lab/Discussion activities (students register for particular times)

The lab/discussion is a smaller group that meets once a week for 110 minutes at times that you register for to register for the course. The focus of labs will be to investigate the process of hypothesis driven science. Labs will be devoted to designing, conducting, analyzing, and presenting experiments in physiology. See the section on Student Investigation Project for a more detailed explanation. Each laboratory exercise is introduced by a **Pre-lab**. The pre-lab assignment is **due on Tuesday** just before midnight. You are asked to read the lab before **attending the lab session for which you registered**. The **lab assignments** you will work on with your section are **due in lab or sometimes Thursdays** just before midnight. The Pre-lab will introduce you to the topic to be covered in lab and help focus your thinking so that you will get more out of the laboratory. **We have labs in K15 and KL13 this term.**

HW/Problem Solving Sessions (several sections to be scheduled during the term)

The single biggest problem students have in general biology is solving the kinds or problems presented in homework problems and exams. These are similar to the kinds of questions that biologists ask; many can't be solved by memorization of facts. In the problem solving sessions, we will go over homework problems and discuss ways to approach these problems. Although attendance is not required, we strongly encourage you to attend these sessions on a regular basis, or to regularly attend the office hours of one of the GEs or tutoring session of one of the Biology Tutors.

Homework Assignments (due **Wednesdays at midnight of weeks 3,5,7 and 9**)

There will be four homework assignments during the quarter. The homework will help you to learn the material from your readings, lectures and labs that we think is important and thus may be included on the exams. Homework assignments will have a Canvas based, computerized version that will be the graded form of the assignments. The PDF version is what you should use to do the homework yourself, because if you do you will

have generated an excellent quiz and exam study tool. I will hold HW sessions to help you understand these problems, and using this resource will almost certainly be worth your while. Solutions to the homework will be posted on the web just after the due-date, so **late homework will not be accepted.**

You must do your own work on homework. Copied homework will be treated as academic dishonesty. It's not smart to cheat on homework anyway, the homework is there because if you can figure out these answers you'll do well on tests.

Office and Tutor hours

Review Sessions (scheduled during the term)

Graduate students and Undergraduate Biology Tutors (BTUs) often volunteer to organize review sessions to help students prepare for quizzes and exams. *Review sessions are much more likely to be offered when office hours and biology tutoring hours are well attended.* The course instructor also often conducts review sessions during the week of an exam. We get access to large classrooms for these events. Review sessions are run on a question and answer basis. No new information is presented exclusively at review sessions. GEs and BTUs who participate will not have seen the upcoming quiz or exam.

Office Hours:

The number of office hours offered for this class is very large. The course instructor offers around **15** office hours/week in addition to HW problem solving sessions. PLEASE USE THEM!

Readings

Any recent biology textbook would be an acceptable source of background information for Bi212, but I do not assign a textbook. I do provide a list of pages relevant to our class topics for the textbook often used in Bi211 and Bi213.

In the most recent term of Bi212 a free online text was used. It doesn't cover Bi212 course content at the depth required for our class, but it provides an excellent background for some topics.

I am not sure if I will create a packet in the upcoming term

Course Packet This packet contains many of the handouts you will need during the quarter including Lecture worksheets, pre-lectures, lab handouts, the Student Investigation handout, and homework assignments. You should bring the packet with you to lab section. The packet will also be available on Canvas.

Articles:

We will make available a set of assigned and a set of optional readings on our website. Our textbook provides plenty of information and covers a wider range of topics than we cover in all four semesters of this biology sequence. Textbooks in general fail to provide an idea of the evidence supporting the models we teach for how biological systems work, and the processes that lead to our understanding of how things work. They tend to simplify too much. Our assigned articles are designed to provide examples of the science methodology that leads to an understanding of the field, and to offer up to the minute coverage of topics that may not make it into textbooks for years to come.

Grading

Course Component	Percent of Grade
Laboratory Activities	7
Homework assignments (4)	10
Clickers, in class activities & "self-tests"	10
Exams	60
• Midterm (2)	25
• Quizzes (2)	10
• Final Exam	25
Project	15
• proposal	4
• paper	8
• presentation	3

Attendance at lab is mandatory. Missing multiple labs, or your presentation, without an acceptable excuse will result in a failing grade for the course.

Homework Assignments There will be four homework assignments during the quarter. The homework will help you to learn the material from your readings, lectures and labs that we think is important and thus may be included on the exams. Homework assignments will have a Canvas based, computerized version that will be the graded form of the assignments. Paper based Homework will be used only to help you complete the Canvas assignment. I will hold HW sessions to help you understand these problems, and using this resource will almost certainly be worth your while.

Solutions to the homework will be posted on the web by the afternoon of the due-date, so **late homework will not be accepted.**

You must do your own work on homework. Copied homework will be treated as academic dishonesty. It's not smart to cheat on homework anyway, the homework is there because if you can figure out these answers you'll do well on tests.

Laboratory activities Lab worksheets, either paper or electronic, will be turned in at the end of some labs. You will receive full credit for the laboratory activity reports (5%) if you attend lab and pass these in after a BULA or GE has checked them for you. Labs **cannot** be made up because they involve extensive setup of materials. If you miss a lab because of an illness, call or email your GE as soon as possible to see if you can attend another lab section. Missing labs without an instructor verified explanation may cost you additional course points. Two hour lab sections are **held in Klamath 5 and 13**

Student Investigation Project You will conduct experiments on circulation in humans (blood pressure) and plants (transpiration). Your instructors have designed these experiments, and everyone in the class will collect data that will be pooled for analysis. In the 5th week, you will choose one of these systems to use for your investigation and you will prepare a proposal with 2 or 3 other students in your lab. Each group will carry out their investigation during the 7th and 8th week of the term and then communicate their findings in a paper and oral presentation. The project, worth 15% of your grade, consists of three parts: proposal (4%, group grade), a paper written by each individual (8%, individual grade), and a presentation (3%, group grade). Papers will be due as per the syllabus; late papers will not be accepted. Failure to write a paper will result in failing the class. The experiments you conduct will be of your own design. You will generate the protocol and design the control and experimental conditions. Each student must write his or her own paper. **You may not write them together.** All experiments are subject to the approval of the instructor. **You may not submit a paper you have submitted in a previous term.**

Investigation Paper: Once again, different papers are to be written by each student. You may not work together writing the paper. You are required to submit your paper to *Vericite*, located on the course Canvas site. *Vericite* checks your work for originality by checking it against published work and previous work submitted by Bi212 students.

Pop Quizzes: Unannounced quizzes will be given during some labs. These quizzes will cover material in the pre-lab and lab write-ups.

Exams and grading: There will be three exams (two midterms and a comprehensive final) and two quizzes. The exams will cover material from all aspects of the course including lectures, labs and readings. Exams will probe a deep understanding of the concepts and principles discussed, and an ability to apply the concepts to novel situations. **EXAMS CANNOT BE MADE UP. EVERYONE IS REQUIRED TO TAKE THE FINAL EXAM. BE CAREFUL WHEN MAKING TRAVEL PLANS AS THE FINAL IS ON THURSDAY DAY MARCH 17TH AND THERE WILL BE NO EARLY EXAMS AND NO MAKE-UP EXAMS.**

Exams are graded by Graduate Teaching Fellows under the supervision of the faculty. To promote consistency, one person grades the same question on all exams. If, upon receiving your exam back and reading the posted key, you think that you should have received more credit for an answer, submit your exam to your GE, along with a **WRITTEN EXPLANATION** of why you think your answer is correct, within **ONE WEEK** of getting your exam back. Your entire exam will then be re-graded by the people who originally graded it and by the faculty member and your new score will be used. If a simple addition error occurred, you may just take it to a GE.

In and after class assignments: We will use Canvas and iClickers to pose questions that can be graded by computer and provide you with pretty much instant grading and feedback as to your understanding of the material as it is presented.

Clickers (Personal Response Systems) THESE ARE PART OF YOUR GRADE

Clickers will be used in almost every class to encourage participation, monitor attendance, and to provide valuable feedback to instructors and students. Each student is expected to purchase a clicker for use in this class. We will register the clickers during lab in week 1 so be sure to have yours with you at that time. Questions during lecture that require clickers will most likely be multiple choice or true/false. Points will be earned for offering a response. More points will be awarded if the response is correct.

Post-lecture "Self Tests" on Canvas THESE ARE PART OF YOUR GRADE

Questions relevant to material covered in lecture will be posted at the end of each class. Canvas will grade them, provide the correct answers, and record your grades. These tests will be short, and will be available from the end of lecture to the start of the next lecture – so your time to complete them is limited. I usually call these “self tests” as you are not in class when you complete them.

Calculating your grade

Ideally canvas would keep a running tally of your grade, but it cannot do so for Bi212 because many of our assignments offer the possibility of earning more than 100% of the points for that assignment. I provide a Microsoft excel template for you to download, into which you can enter your own grades and keep track of your own progress. But the class is designed to allow you to benefit from progress – so rather than calculating your grade with any frequency – I recommend that you spend that time on the next assignment instead.

Website Many items from the course will be posted on the **Canvas** based website, including lecture notes. However, a word of caution is in order. Servers occasionally crash and if this happens, the website will be inaccessible. **THUS, WE URGE YOU TO DOWNLOAD OR PRINT ANY MATERIALS OF INTEREST FROM THE WEBSITE WELL IN ADVANCE OF EXAMS. WE WILL NOT RESCHEDULE QUIZZES OR EXAMS BECAUSE THE WEBSITE IS INACCESSIBLE**

Grading during a pandemic

I will be mindful of the many impacts the unfolding events related to COVID-19 may be having on you. During this unusual time, if you are not able to do an assignment, please communicate with me and we will strive to create an alternative plan to complete required coursework.

All published evidence supports the hypothesis that regular practice and frequent testing provide the best results in terms of student retention and learning. It is for this reason that I provide so many low point value assignments.

Historically the grade a student receives in Bi212 has been considered a strong predictor of success in Bi214, upper division classes, and standardized tests including the GRE and MCAT. I do not know if grades in the class will correlate as well with subsequent success

in the future, but I am very confident that if you work hard and really master the skills and concepts we present, and learn to do those same set of things that generations of students have learned before you – that you will be well prepared for the next stages of your academic journey.

The details of my grading system are published above. I may ADD grading options to what I have placed in the syllabus. If the grading system I have placed there in black and white ends up being the system that is to your greatest advantage, you can count on it getting you getting a grade with the standard 90% or better is some kind of A, 80% or better some kind of B conversion of course points to letter grade.

Readings

Journal articles:

We will make available a set of assigned and a set of optional readings on our website. Any textbook provides plenty of information and covers a wider range of topics than we cover in all four semesters of this biology sequence. But textbooks in general fail to provide an idea of the evidence supporting the models we teach for how biological systems work, and the processes that lead to our understanding of how things work. They tend to simplify too much. They tend to cost too much. Our assigned articles are designed to provide examples of the science methodology that leads to an understanding of the field, and to offer *up to the minute* coverage of topics that may not make it into textbooks for years to come. I don't list the articles until the course begins because I often switch out intended papers with even more recently published articles.

Instructor Notes:

I create notes for every distance lecture that become available after that lecture assignment is due. These explain the reasoning behind answers to many of the questions in the assignments, but also a thorough coverage of the content provided in that lecture. These notes and the assigned papers are the reading material most appropriate for you to focus upon when you student for the class

Supplementary content videos:

We have made screencast videos of the important content and themes of the class that you might use as a video textbook. During on campus terms most dedicated student watch these videos before coming to class, allowing us to focus on the application of that content during class.

Any recent biology textbook would be an acceptable source of background information for Bi212, but I do not assign a textbook. I do provide a list of pages relevant to our class topics for the textbook historically used in Bi211 and Bi213. In the most recent term of Bi211 a free online text was used. It doesn't cover Bi212 course content at the depth required for our class, but it provides an excellent background for some topics.

The Textbook this sequence once used *Biological Science* by Freeman, Any edition.

The text can be used as a general reference throughout the four quarters of General Biology. Pertinent chapters are indicated in the readings document, specific page assignments will be given as we proceed. The readings include background material useful to prepare you for lecture and for studying for exams. We don't expect you to remember all the details in this material. A good strategy is to read the material twice: the first time skim over it, concentrating on the major concepts; the second time read it more carefully, concentrating on the parts relevant to the homework, lectures, or labs. You may expect that exams will cover only the material covered in lecture, but the text will provide a context and an alternative method of explaining that material.

Student, instructor, and staff conduct

This syllabus is, in effect, an agreement about how all of us will carry out our duties and conduct ourselves this quarter. You should read this carefully and talk to us about it as soon as possible if you are uneasy with parts of this syllabus. We will work hard to make this course valuable to your learning. We welcome suggestions from you at any time about things you think could be done to improve the course. In return, we ask that you arrive at lab and lecture conferences on time and stay until class is over without making unnecessary noise that could distract your classmates.

Academic Integrity

Students will be expected to adhere to the University's guidelines on academic integrity <https://policies.uoregon.edu/vol-3-administration-student-affairs/ch-1-conduct/student-conduct-code>.

Academic misconduct is a serious concern that threatens the value of the degree you are working hard to earn. Your education is expensive, you should behave in ways that do not reduce the value of your degree for you and for your peers. Dishonesty has become rampant in political discourse, and as a nation we have failed to counter dishonesty with consequences. I believe honesty is our responsibility, yours and mine. You owe it to me and to your peers and to yourself to follow the conduct code, and we owe it to all of us to discover and report misconduct. I have a zero-tolerance policy for academic dishonesty, and I will suggest that students who are discovered to have engaged in cheating will, in accordance with University regulations and procedures, receive a failing grade for the course. Having the record of academic dishonesty on your record for even a single class is a penalty that will outweigh any gains you think you have accrued in all of your classes.

Finally, you do not have permission to post any course related material on private or public websites (i.e. Chegg, GroupMe, CourseHero, Discord etc.). Doing so violates both University conduct policy and copyright law. I will vigorously investigate the source and use of all Bi212 material found on such websites.

Academic integrity

The [University Student Conduct Code](#) defines academic misconduct, which includes unauthorized help on assignments and examinations and the use of sources without acknowledgment. Academic misconduct is prohibited at UO. I will report misconduct to the Office of Student Conduct and Community Standards—consequences can include failure

of this course. I will ask you to certify that your exams/papers are your own work.

I encourage group work on the non-test assignments. But this does not include using websites outside of those provided through Canvas.

• **University definitions of Academic Misconduct**

- a. Assisting in the commission of academic misconduct: Any intentional action that helps, or is intended to help, another engage in academic misconduct.
- b. Cheating: Unauthorized collaboration, accessing, or using of unauthorized materials, information, tools, or study aids.
- c. Fabrication: Making up data or results and recording, reporting, or using them as authentic.
- d. Multiple submissions of work: Using or submitting the same or substantially the same academic work for credit more than once, unless specifically authorized by the instructor of record for the course in which it's being submitted for credit. If authorized, appropriate disclosure and citation is required.
- e. Plagiarism: Presenting another's material as one's own, including using another's words, results, processes or ideas, in whole or in part, without giving appropriate credit.
- f. Unauthorized recording and/or use: Recording and/or dissemination of instructional content, or other intellectual property, without the express written permission of the instructor(s), intellectual property owner or the Accessible Education Center.

Class Courtesy

Please arrive to class on time. Late arrivals distract the instructor and the other students. Please turn off cell phones during the class meeting times. Use your laptop only for class activities when given approval by the instructor. Ask questions if you did not hear or understand something.

Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the quarter (or before) so that I may address you properly.

Open inquiry, freedom of expression, and respect for difference are fundamental to a comprehensive and dynamic education. We are committed to upholding these ideals by encouraging the exploration, engagement, and expression of divergent perspectives and diverse identities. Classroom courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race,

culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. Our classroom is a learning environment, and as such should be a safe, inclusive and respectful place. Being respectful also includes using preferred pronouns for your classmates. Disrespecting fellow students as well as combative approaches, tones and/or actions are not acceptable. Please make me aware if there are classroom dynamics that impede your (or someone else's) full engagement.

Personal Emergencies

We all have crises now and then. If you are having a problem that interferes with your ability to do the work in this class, please tell us about it as soon as you can. We are willing to give grades of incomplete or to make some kinds of special arrangements when the need is real **and** when you have done your best to deal with the situation and let us know about it in a timely manner.

Diversity Open inquiry, freedom of expression, and respect for difference are fundamental to a comprehensive and dynamic education. We are committed to upholding these ideals by encouraging the exploration, engagement, and expression of divergent perspectives and diverse identities.

Discrimination and Harassment

Prohibited Discrimination and Harassment

Any student who has experienced sexual assault, relationship violence, sex or gender-based bullying, stalking, and/or sexual harassment may seek resources and help at safe.uoregon.edu. To get help by phone, a student can also call either the UO's 24-hour hotline at 541-346-7244 [SAFE], or the non-confidential Title IX Coordinator at 541-346-8136. From the SAFE website, students may also connect to Callisto, a confidential, third-party reporting site that is not a part of the university.

Students experiencing any other form of prohibited discrimination or harassment can find information at respect.uoregon.edu or aao.uoregon.edu or contact the non-confidential AAEO office at 541-346-3123 or the Dean of Students Office at 541-346-3216 for help. As UO policy has different reporting requirements based on the nature of the reported harassment or discrimination, additional information about reporting requirements for discrimination or harassment unrelated to sexual assault, relationship violence, sex or gender based bullying, stalking, and/or sexual harassment is available at [Discrimination & Harassment](#).

Reporting

The instructor of this class is a Student-Directed Employee. As such, **if you disclose to me, I will respond to you with respect and kindness. I will listen to you, and will be sensitive to your needs and desires. I will not judge you. I will support you.** As part of that support, I will direct students who disclose sexual harassment or sexual violence to resources that can help. **I will only report the information shared to the university administration when you as the student requests that the information be reported**

(unless someone is in imminent risk of serious harm or is a minor). Please note the difference between ‘privacy’ and ‘confidentiality.’ As a Student-Directed Employee I can offer privacy because I am not required to report certain information to the university. However, I cannot be bound by confidentiality in the same way that a counselor or attorney is. Confidential resources such as these means that information shared is protected by federal and state laws. Any information that I as a student-directed employee receive may still be accessed by university or court proceedings. This means, for example, that I could still be called as a witness or required to turn over any related documents or notes that I keep.

Please note also that I am required to report all other forms of prohibited discrimination or harassment to the university administration. Specific details about confidentiality of information and reporting obligations of employees can be found at titleix.uoregon.edu.

Mandatory Reporting of Child Abuse

UO employees, including faculty, staff, and GEs, are mandatory reporters of child abuse. Child abuse pertains to individuals who are under the age of 18. This statement is to advise you that your disclosure of information about child abuse to the instructor may trigger my duty to report that information to the designated authorities. Please refer to the following links for detailed information about mandatory reporting: [Mandatory Reporting of Child Abuse and Neglect](#).

The University of Oregon is working to create inclusive learning environments. Please notify me if there are aspects of the instruction or design of this course that result in disability-related barriers to your participation. You are also encouraged to contact the Accessible Education Center in 360 Oregon Hall at 541-346-1155 or uoaec@uoregon.edu.

Academic Resources for Students The Tutoring and Academic Engagement Center (Knight Library 4th floor; <https://apps.ideal-logic.com/uotutoring>) provides Individual tutoring (private-hire) available through the

Learning Specialists can help you with strategies for success in BI 212 and the sciences in general. You can work on time management, note-taking, effective study skills, etc. To make an appointment, call [541-346-3226](tel:541-346-3226) or schedule online at <https://engage.uoregon.edu/services/>

Class Encore study group for BI 212

Do you enjoy studying with other people? Would you like to practice course concepts with additional help? Are you interested in learning strategies for academic success? If so, check out Class Encore, a Tutoring and Academic Engagement Center program that sets up small, structured study groups for challenging classes. The groups meet outside of class once a week for 50 minutes, weeks 2-10. Students gather to practice course concepts and study strategies with the assistance of a trained peer leader. Registration for Class Encore is FREE and open to ALL students enrolled in the class; each group is limited to the first 10-12 students who sign up. To register for a BI 212 study group, visit <https://classencore.uoregon.edu/>.

Accessible Education Center The University of Oregon is working to create inclusive learning environments. The instructor believes strongly in creating inclusive learning environments. If there are aspects of the instruction or design of this course that result in barriers to your participation, please notify us as soon as possible. You are also encouraged to contact the Accessible Education Center. If you are not a student with a documented disability, but you would like for us to know about class issues that will impact your ability to learn, we encourage you to come visit during office hours so that we can strategize how you can get the most out of this course. Located on the 1st Floor of Oregon Hall (541) 346-1155, email at uoaec@uoregon.edu

Center for Multicultural Academic Excellence (CMAE) mission is to promote student retention and persistence for historically underrepresented and underserved populations. We develop and implement programs and services that support retention, academic excellence, and success at the UO and beyond. We reaffirm our commitment to all students, including undocumented and tuition equity students. Located on the 1st Floor of Oregon Hall (541) 346-3479, cmae@uoregon.edu

Mental Health and Wellness

"Life at college can be very complicated. Students often feel overwhelmed or stressed, experience anxiety or depression, struggle with relationships, or just need help navigating challenges in their life. If you're facing such challenges, you don't need to handle them on your own--there's help and support on campus.

As your instructor if I believe you may need additional support, I will express my concerns, the reasons for them, and refer you to resources that might be helpful. It is not my intention to know the details of what might be bothering you, but simply to let you know I care and that help is available. Getting help is a courageous thing to do—for yourself and those you care about.

University Health Services help students cope with difficult emotions and life stressors. If you need general resources on coping with stress or want to talk with another student who has been in the same place as you, visit the Duck Nest (located in the EMU on the ground floor) and get help from one of the specially trained Peer Wellness Advocates. Find out more at health.uoregon.edu/ducknest.

University Counseling Services (UCS) has a team of dedicated staff members to support you with your concerns, many of whom can provide identity-based support. All clinical services are free and confidential. Find out more at counseling.uoregon.edu or by calling 541-346-3227 (anytime UCS is closed, the After-Hours Support and Crisis Line is available by calling this same number)."

Pandemic and emergency relevant addendum

Academic Disruption due to Campus Emergency

In the event of a campus emergency that disrupts academic activities, course requirements, deadlines, and grading percentages are subject to change. Information about changes in this course will be communicated as soon as possible by email, and on Canvas. If we are not able to meet face-to-face, students should immediately log onto Canvas and read any announcements and/or access alternative assignments. Students are also expected to continue coursework as outlined in this syllabus or other instructions on Canvas.

In the event that the instructor of this course has to quarantine, this course may be taught online during that time.”

COVID Containment Plan for Classes

As the University of Oregon returns to in-person instruction, the key to keeping our community healthy and safe involves prevention, containment, and support. Here is information critical to how the UO is responding to COVID-19.

- Prevention: To prevent or reduce the spread of COVID-19 in classrooms and on campus, all students and employees:
 1. Must to be comply with [vaccination policy](#)
 2. Must [wear face coverings](#) in all indoor spaces on UO campus
 3. Complete weekly [testing](#) if not fully vaccinated or exempted
 4. [Wash hands](#) frequently and practice social distancing when possible
 5. Complete daily [self-checks](#)
 6. Stay home/do not come to campus if feeling [symptomatic](#)
 7. Complete the UO [COVID-19 case and contact reporting form](#) if you test positive or have been in close contact with a confirmed or presumptive case.
- Containment: If a student in class tests positive for COVID-19, all relevant classes will be notified via an email by the Corona Corps Care Team with instructions for students and staff based on their vaccination status. Specifically:
 8. Vaccinated and Asymptomatic students: Quarantine not required, but daily self-monitoring before coming on campus is advised; sign up for testing through MAP 3-5 days after exposure if advised you are a contact.”
 9. Unvaccinated or partially vaccinated students: 14-day quarantine advised – do not come to class – and sign up for testing 3-5 days after notification through [MAP](#), if asymptomatic, or through University Health Services (541-346-2770) or your primary care provider, if symptomatic.
 10. Symptomatic students: stay home (do not come to class/campus), complete the online [case and contact form](#), and contact University Health Services (541-346-2770) or your primary care provide to arrange for immediate COVID-19 testing.

Students identified as a close contacts of a positive case will be contacted by the Corona Corps Care Team (541-346-2292).

- Support: The following resources are available to you as a student.
 - [University Health Services](#) or call (541) 346-2770
 - [University Counseling Center](#) or call (541) 346-3277 or (541) 346-3227 (after hrs.)
 - [MAP Covid-19 Testing](#)
 - [Corona Corps](#) or call (541) 346-2292
 - [Academic Advising](#) or call (541) 346-3211
 - [Dean of Students](#) or call (541)-346-3216

Good Classroom Citizenship

- Wear your mask and make sure it fits you well
- Stay home if you're sick
- Get to know your neighbors in class, and let them know if you test positive
- **Get tested** regularly
- Watch for signs and symptoms with the daily symptom self-check
- Wash your hands frequently or use hand sanitizer

Complete the UO COVID-19 **case and contact reporting form** if you test positive or are a close contact of someone who tests positive."

Accessible Education

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Academic Misconduct -

The instructor has a zero tolerance policy for academic misconduct. The University Student Conduct Code (available at conduct.uoregon.edu) defines academic misconduct. Students are prohibited from committing or attempting to commit any act that constitutes academic misconduct. By way of example, students should not give or receive (or attempt to give or receive) unauthorized help on assignments or examinations without express permission from the instructor. **Posting course material including videos, lecture notes, problems, and solutions, on any platform that is not officially affiliated with the course is prohibited and will be treated as academic misconduct and reported to the Dean of Students Office.** Students should properly acknowledge and document all sources of information (e.g. quotations, paraphrases, ideas) and use only the sources and resources authorized by the instructor. If there is any question about whether an act constitutes academic misconduct, it is the students' obligation to clarify the question with the instructor before committing or attempting to commit the act. Additional information about a common form of academic misconduct, plagiarism, is available at <https://researchguides.uoregon.edu/citing-plagiarism>.

Inclement Weather

It is generally expected that class will meet unless the University is officially closed for inclement weather. If it becomes necessary to cancel class while the University remains open, this will be announced on Canvas and by email. Updates on inclement weather and closure are also communicated in other ways described here: <https://hr.uoregon.edu/about-hr/campus-notifications/inclement-weather/inclement-weather-immediate-updates>

Reporting Obligations

I am a Student-Directed Employee. As such, **if you disclose to me, I will respond to you with respect and kindness. I will listen to you, and will be sensitive to your needs and desires. I will not judge you. I will support you.** As part of that support, I will direct students who disclose sexual harassment or sexual violence to resources that can help. **I will only report the information shared to the university administration when you as the student requests that the information be reported** (unless someone is in imminent risk of serious harm or is a minor). Please note the difference between 'privacy' and 'confidentiality.' As a Student-Directed Employee I can offer privacy because I am not required to report certain information to the university. However, I cannot be bound by confidentiality in the same way that a counselor or attorney is. Confidential resources such as these means that information shared is protected by

federal and state laws. Any information that I as a student-directed employee receive may still be accessed by university or court proceedings. This means, for example, that I could still be called as a witness or required to turn over any related documents or notes that I keep.

For information about my reporting obligations as an employee, please see [Employee Reporting Obligations](#) on the Office of Investigations and Civil Rights Compliance (OICRC) website.

Students experiencing any form of prohibited discrimination or harassment, including sex or gender-based violence, may seek information and resources

at safe.uoregon.edu, respect.uoregon.edu, or investigations.uoregon.edu or contact the non-confidential Title IX office/Office of Civil Rights Compliance (541-346-3123), or Dean of Students offices (541-346-3216), or call the 24-7 hotline 541-346-SAFE for help. I am also a mandatory reporter of child abuse. Please find more information at [Mandatory Reporting of Child Abuse and Neglect](#).

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Basic 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 Dean of Students Office (346-3216, 164 Oregon Hall) for support.

This UO webpage includes resources for food, housing, healthcare, childcare, transportation, technology, finances, and legal support: <https://blogs.uoregon.edu/basicneeds/food/>

Accommodation for Religious Observances

The university makes reasonable accommodations, upon request, for students who are unable to attend a class for religious obligations or observance reasons, in accordance with the university discrimination policy which says “Any student who, because of religious beliefs, is unable to attend classes on a particular day shall be excused from attendance requirements and from any examination or other assignment on that day. The student shall make up the examination or other assignment missed because of the absence.” To request accommodations for this course for religious observance, visit the Office of the Registrar's website (<https://registrar.uoregon.edu/calendars/religious-observances>) and complete and submit to the instructor the “Student Religious Accommodation Request” form prior to the end of the second week of the term.