Welcome to BI213: Principles of Biology!

This is a 4 credit lecture/lab Bacc Core course providing a general introduction to genetics, molecular biology, evolution, and ecology. There are 3 hours/week of lecture on these topics co-taught by Dr. Caity Smyth, Dr. Lori Kayes and our amazing team of undergraduate Learning Assistants (LAs)! BI213 is also coordinated by Dr. Kayes. Bi213 is designed primarily, but not exclusively, for students majoring in the life sciences and is a prerequisite for many of the upper level courses in Biology, Zoology and applied life science majors. Labs are 3 hours/week taught by Graduate Teaching Assistants and undergraduate Teaching Interns (TIs). Labs are designed to reinforce the material presented in lecture, provide opportunities for observation, and help students to develop skills in the process of science, problem solving, critical thinking, information retrieval and application, and teamwork. All members of the teaching team work collaboratively to facilitated the best learning environment possible and to foster your success as students and in life!

Prerequisites: Chemistry (see course catalog for specific courses) and life science and pre-professional Majors.

Contact Information

<table>
<thead>
<tr>
<th>Course Coordinator</th>
<th>Office</th>
<th>Phone</th>
<th>E-mail – USE ONID EMAIL ONLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Lori Kayes</td>
<td>117 Weniger Hall</td>
<td>541-737-1734</td>
<td><a href="mailto:Bi21x@science.oregonstate.edu">Bi21x@science.oregonstate.edu</a></td>
</tr>
<tr>
<td>Lecturers</td>
<td></td>
<td></td>
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<tr>
<td>Dr. Caity Smyth</td>
<td>4080 Cordley Hall</td>
<td></td>
<td><a href="mailto:smythj@science.oregonstate.edu">smythj@science.oregonstate.edu</a></td>
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</table>
Office Hours

If you need to see someone about logistical or personal matters please use Dr. Kayes’s office hours or make an appointment.

Dr. Kayes (Weniger Hall 117)
Tuesday from 10 – 11 am and Friday from 11:30 – 12:30 pm or by appointment. Dr. Kayes will also have extra review sessions during weeks 6-10 (see below).

Vole Hole (Weniger 139)
Hours Vary: M-F 9 - 5 pm
See schedule on Canvas.

Extra Review Sessions will be offered by different faculty 2 times per week in lieu of office hours. If you need to see someone about logistical or personal matters please use Dr. Kayes’s office hours or make an appointment.

<table>
<thead>
<tr>
<th>Day/Time</th>
<th>Location</th>
<th>Faculty Member Leading</th>
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<tbody>
<tr>
<td>Wednesday 11-12</td>
<td>TBA</td>
<td>Dr. Smyth/Dr. Kayes</td>
</tr>
<tr>
<td>Friday 4-5</td>
<td>TBA</td>
<td>Dr. Kirk</td>
</tr>
</tbody>
</table>

Textbooks and Materials

Textbooks
1. Reece, J.B. et al. 2014. *Campbell Biology* (10th edition) Benjamin Cummins (available used, new and electronically from the bookstore)*
2. Mastering Biology Access Code (either included with textbook on a piece of cardboard (DO NOT THROW IT AWAY) or available for purchase on-line)
   **NOTE THAT YOU NEED TO PURCHASE THE LAB MANUAL PRIOR TO YOUR WEEK 1 LAB.**

Equipment and Supplies
1. Turning Technologies Clicker, available at the OSU Bookstore
2. Package of 100 3x5 notecards

Optional Textbooks
*There are 8 copies of the textbook on reserve at the library.*
Statement of teaching philosophy

Bi21x is a team-taught class and each faculty member has a slightly different teaching style and teaching philosophy. We are all from different biological fields and hope to share some of the diversity of biological fields and expertise with you over the course of the year. Generally, we believe that biology should be fun and interesting! This course series is designed to give you an introduction to a broad array of biological topics that relate to biological literacy even if they do not relate to your field of interest. In the course structure, we believe that telling students exactly what to expect will help students achieve the grades they desire. Our ultimate goal is to provide students with the confidence and skills to learn for themselves for the rest of their lives. We also feel that practice makes perfect, so we provide lots of different ways to earn points in this class. Finally, biology is a science and part of learning biology is learning how science works. We hope to teach you that biology is not just the memorization of facts but is about making connections between topics, testing hypotheses and learning more about life on earth through on-going research. We also aim to create an inclusive classroom where all students feel free to think critically and make mistakes during their learning process. We hope by the end of this course that you can make decisions based on evidence and know what good evidence is.

After completion of this course, students will be able to:
1. Identify, define, and use the technical terms, key words, and concepts characteristic of genetics, evolution and ecology (BCLO 1 & 2).
2. Solve genetic, evolutionary and ecological problem sets using quantitative methods and mathematical models (BCLO 1, 2, 3).
3. Explain the molecular basis for information storage, exchange and flow in living organisms (BCLO 1, 2, 3).
4. Rank genetic, evolutionary and ecological patterns and processes by the appropriate temporal and spatial scales (BCLO 1 & 3).
5. Interpret genetic, evolutionary and ecological data using the process of science and mathematical models (BCLO 1, 2, 3).
6. Outline the patterns, processes and mechanisms related to different genetics, evolution and ecology phenomena (BCLO 1,2,3)
7. Defend a viewpoint on current scientific or socio-scientific issues using genetic, evolutionary and ecological theories and models (BCLO 1, 2, 3).
8. Give specific examples of how organisms and the environment interact and modify each other (BCLO 1 & 3).
9. Demonstrate competencies in biological skills that are practiced by today’s biologists, including microscopy, scientific methodology, experimental design, basic laboratory techniques, data analysis, and oral and written scientific communication (BCLO 1, 2 & 3).
10. Work collaborative with peers to achieve the above learning outcomes.

Baccalaureate CORE Learning Outcomes (BCLO)
This course fills the Perspectives category of Biological and Physical Sciences.
Students will:
1. Recognize and apply concepts and theories of basic physical or biological sciences.
2. Apply scientific methodology and demonstrate the ability to draw conclusions based on observation, analysis, and synthesis.
3. Demonstrate connections with other subject areas.

Specific BI213 Learning Outcomes
Student Expectations

1. Participate! We have designed a collaborative, interactive environment to help you ENGAGE with the material!
2. Bring your enthusiasm for biology to class.
3. Read required assignment PRIOR to the class on the day in which they are assigned.
4. Dedicate yourself to understand, synthesize, and apply material, concepts, and mechanisms taught.
5. Attend lecture, laboratory and exams.
6. Bring and use the hand-held clicker to participate in lecture.
7. Complete your Mastering Biology, quizzes and laboratory assignments on time.
8. Treat everyone with dignity and respect. Please respect your classmates and instructor by:
   a. Keeping conversations to a minimum so you do not distract the instructor or your fellow students except during class discussions.
   b. Putting your phones on vibrate and keep them out of sight.
   c. No phones, video games or other electronic-generated sounds.
   d. Stay for the entire lecture. NO mass exodus ~5 minutes prior to the end of class.
   e. Arrive on time (if you arrive late please enter quietly and take a seat as close as possible to the door which you entered).
9. Email instructors using their student ONID account and put BI213 in the subject.
10. Check your ONID email and Canvas site at least every 2 days.
11. Follow the laboratory expectations and policies outlined in your lab manual.
12. Follow the Student Conduct Regulations in all endeavors.

http://studentlife.oregonstate.edu/sites/studentlife.oregonstate.edu/files/student_conduct_code_1.pdf

Instructor Expectations

Instructors will:

1. Facilitate a welcoming and inclusive learning environment for all students.
2. Provide the best learning environment and activities that they can.
3. Do their best to finish on time.
4. Be available for help!
5. Respond as quickly as possible to all requests that are addressed to the correct person and from an email with ONID address with Bi213 in subject line.

Waitlisted Students

If you are waitlisted, you need to attend lab, class and complete Mastering Biology Assignments during week 1 and 2. You will NOT have the opportunity to make-up these points in the event that you are admitted to the class. However, DO NOT attend the lab that you are waitlisted for during week 1 and 2, as you will not be allowed to participate without permission from Dr. Kayes. Instead you MUST contact Dr. Kayes to schedule a lab that week. The most common reason that students are waitlisted for BI21x is that the lab section they want is full. If you are waitlisted for the course and can attend lab at another time, please contact the Biology Registration Coordinator, Trudy Powell (trudy.powell@oregonstate.edu) to register.
Assessments/Grading

<table>
<thead>
<tr>
<th>Assessments</th>
<th>Total Points</th>
<th>Percentage of Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm 1 (80 pts individual + 20 pts group)</td>
<td>100</td>
<td>16.6%</td>
</tr>
<tr>
<td>Midterm 2 (100 pts individual +25 pts group)</td>
<td>125</td>
<td>20.8%</td>
</tr>
<tr>
<td>Final exam (100 pts individual +25 pts group)</td>
<td>125</td>
<td>20.8%</td>
</tr>
<tr>
<td>Laboratory assignments</td>
<td>150</td>
<td>25%</td>
</tr>
<tr>
<td>Group Concept Check Sheets (1/wk in lecture)</td>
<td>25</td>
<td>4.2%</td>
</tr>
<tr>
<td>End of Week Homework Assignments (in Mastering Biology)</td>
<td>20</td>
<td>3%</td>
</tr>
<tr>
<td>Pre-lecture Reading Quizzes (in Mastering Biology)</td>
<td>30</td>
<td>5%</td>
</tr>
<tr>
<td>In-lecture Clicker points</td>
<td>25</td>
<td>4.2%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>600 points</td>
<td>100%</td>
</tr>
</tbody>
</table>

Anyone who earns the following percentage:

<table>
<thead>
<tr>
<th>Or whose total points equals:</th>
<th>will receive at least</th>
</tr>
</thead>
<tbody>
<tr>
<td>92%</td>
<td>A</td>
</tr>
<tr>
<td>90%</td>
<td>A-</td>
</tr>
<tr>
<td>80%</td>
<td>B-</td>
</tr>
<tr>
<td>70%</td>
<td>C-</td>
</tr>
<tr>
<td>60%</td>
<td>D-</td>
</tr>
<tr>
<td>&lt;60%</td>
<td>will fail course</td>
</tr>
</tbody>
</table>

+ and – grades will be the upper 2% points and the lower 2% points of each full letter grade, respectively (e.g., 88-90% = B+, 82-88% = B and 80-82% = B-).

All Principles of Biology (BI21x) courses are criterion graded, meaning that if you earn a specific number of points out of the 600 total points, you are guaranteed grade indicated below (barring any extreme circumstances, such as university closures, etc). BI21x does not curve, so if a large number of students master the course material, a large number can earn high grades. Students are not competing with each other for grades. The point cut-offs could be adjusted if class data indicates that a particular exam question or assignment was poorly written or misunderstood. This does not occur frequently, due to thorough proofing of exams and assignments. Grades will not be available until after 5:00 pm on the Monday following finals week, at which time they will posted to your personal accounts. Please do not email the Course Coordinator requesting your grade prior to that time.

Grading Appeals
Students have 1 week from the time that grades are posted on Canvas or upon receiving their exam grade slip to contest a score. Please look your scores over carefully! Points will be updated on Canvas regularly. Check to make sure all your grades are recorded correctly. If you have questions about laboratory grading, contact your laboratory TA. If your TA cannot adequately respond to your questions, you should then contact the Course Coordinator (Dr. Kayes). If you have any questions regarding the content of an exam question, please contact the course lecturer by email to discuss your question. Each lecturer has a different policy regarding exam questions, which will be provided in lecture. If a grade is listed incorrectly or is not posted when it should be, students should contact their lab TA (for lab grades) or Dr. Kayes (for exam or Mastering Biology grades) as soon as possible. Questions concerning final grades for Biology 213 should be addressed to Dr. Kayes.
Assessments/ Exams

- All exams will be CUMMULATIVE!
- All midterm exams are on **Monday nights from 7:00-8:20 pm.** Exam dates are on the reading schedule. The final exam is on **Wednesday, June 14th from 7:30 to 9:20 am.**
- Please note the scheduled times for the exams/lab quizzes and resolve any conflicts immediately. The policy of the Biology 21X program is to **NOT** offer early exams/quizzes or make-up exams. If you wish to appeal this policy, contact the Course Coordinator (**bi21x@science.oregonstate.edu**) prior to the exam.
- The locations of the exams will be posted in the “Exam Information and Preparation” Module on Canvas prior to the exams.
- The Exam Key will be posted in the “Exam Information and Preparation” Module on Canvas by 5 pm on the Friday following the exam. Exam grade slips will be handed out during your laboratory section the week after the group exam. If, after receiving your exam grade slip, you have questions about the content of lecture exam questions, please contact the course lecturer responsible for the question(s). Each lecturer has a different policy regarding exam questions, which will be provided in lecture. Please do NOT contact the course lecturer prior to receiving your exam grade slip. If you have questions about the clerical errors in exam grading, you should contact the Course Coordinator.

Exam grading and group exams

- During the week following the exam in lab or at the beginning of the final exam, there will be a group portion of the exam. The group portion of the exam will be worth an additional 1/5 of the total exam points (20 pts for exam 1, 25 pts for exam 2 and the final exam). Each lab group will turn in one scantron of answers with their group consensus of answers to the question.

- For the group portion of the **midterm exams**, you will be asked to answer a subset of questions from the individual exam during the first 30 mins of your lab during the week of the exam. For the midterm exams, the group exam score cannot lower your overall percentage on the exam compared to your individual score (i.e. in other words, the group exam can only improve your grade). NOTE: If you miss lab following the exam, you will not have the opportunity to take the group exam, instead your individual score will be scaled to the point value of the group + individual exam.

- For the group portion of the **final exam**, you will be asked to answer a set of 10 comprehensive questions during the first 30 min of the final exam time. For the final exam, the group portion of the exam is the cumulative portion of the exam and consists of novel questions. Therefore for the final exam, your group score will be score you receive and will not be scaled.
Assessments/ Laboratories

• LABS START WEEK 1. You need to purchase your lab manual prior to attending lab the first week. The first week’s lab will not be provided in class.

• Missed labs: Attendance in lab is required. Make-up labs are not available.

• The last day to permanently switch labs is the first Friday of the term. To permanently switch a lab, you must contact the Biology Registration Coordinator, Trudy Powell (trudy.powell@oregonstate.edu).

• Labs are scheduled at the same times for two rooms: Weniger 226 and Weniger 228. Please check your schedule to make sure that you are in the correct room. You will not receive any points if you attend the wrong lab section.

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Points</th>
<th>Number</th>
<th>Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-lab Assignments</td>
<td>2</td>
<td>9</td>
<td>18</td>
</tr>
<tr>
<td>In-lab Investigations</td>
<td>4</td>
<td>10</td>
<td>40</td>
</tr>
<tr>
<td>Quizzes</td>
<td>8-12</td>
<td>3</td>
<td>30</td>
</tr>
<tr>
<td>Scientific Reading Assignment</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Individual Experimental Design Plan</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Results and Discussion/Press Release</td>
<td>10</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>Annotated Bibliography Article Summary</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Terrestrial Ecology Report</td>
<td>20</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>Skills Tests</td>
<td>10</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>Scientific Communication Posts</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>TOTAL</td>
<td>154/150</td>
<td></td>
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</tbody>
</table>

*You must attend and complete every lab to receive points for that lab! However, there are 4 extra points built into the lab grading scale for extra credit. This means that you can miss 1 labs or 2 pre-labs without penalty. *If you attend all labs you will receive extra credit for your efforts (4 pts). In other words, there are 154 pts available but your lab grade will be out of 150 pts. You are still responsible for the content covered in that lab on your quizzes and exams. NOTE: You are not eligible for this extra credit if you have to miss a lab for either excused or unexcused absences. There are no make-up labs.

Lab Assignments:

• The detailed laboratory assignment schedule is in your lab manual.

• Students must write answers in their own words. Students who turn in identical answers or answers copied directly from other sources will receive no credit and may be reported to the Office of Student Conduct for Academic Dishonesty.

• Late work will not be accepted unless approved by your TA and then will be deducted 10% per day late including weekends.
You need to register for and join the BI213 Mastering Biology course to do homework assignments and pre-lecture reading quizzes. To register for Mastering Biology, click MyLab and Mastering link on the course Canvas page and follow the directions posted on Canvas. You will need your access code (or you can purchase one on-line). All questions and concerns regarding registration and on-line assignments should be directed to Dr. Kayes. There is a temporary access that you can purchase for 2 week prior to payment. There is not a course code. If you change sections you need to rejoin in the proper section and contact Dr. Kayes to transfer any points in the old section.

End of Week Homework
There will be required on-line homework assignments each week (due Mondays at 11:59 pm).

End-of-Week Homework Grading
- The end of week homework assignments will be worth 20 points towards your final grade. There are 9 end of week homework assignments (one per week).
- The points within end of week homework are assigned based on the amount of time that the assignment takes, so that the portions of the assignments that take longer are worth more points. However, assignments are all scaled to the same point value at the end of the term.
- Your end of week homework points for the course will be based on the overall percentage you get on 8/10 assignments. Full credit (20 points) will be given if you receive a $\geq 90\%$ correct. Otherwise, the course points that you receive will be based on the percent of Mastering Biology points you received after dropping the lowest 2 assignments, i.e., if your overall end of week homework average is 50% will earn you 10 points.
- Working with other students is acceptable. However, simply copying or doing someone else’s homework is NOT acceptable (you only cheat yourself; see also next section). NOTE: Late homework assignments are not accepted.

Pre-Lecture Reading Quizzes
On-line quizzes are due each Monday, Wednesday and Friday (at 8 am) covering the required reading for that day through Mastering Biology. The first quiz will be due on Wednesday, April 5th and cover reading for Monday and Wednesday of week 1. There are no quizzes on days without reading assignments (i.e. review days).

Quiz Grading
The reading quizzes will be worth 30 points towards your final grade. There are 26 reading quizzes, one for every day of lecture. We drop the lowest four quizzes so do not email if you miss a quiz. Your quiz points for the course will be based on the overall percentage you earn on all the quizzes. Full credit (30 pts.) will be given if quizzes are completed with $\geq 90\%$ correct. Otherwise, you will get will be based on the percent of quiz points you received, i.e., if your overall quiz percentage after dropping the four lowest is 50%, you will receive 15 points. These reading quizzes should be taken independently. NOTE: Late quizzes are not accepted.

Mastering Biology Extra Credit
There will be two opportunities to earn extra credit in Mastering Biology: Adaptive Follow-up Assignments and Dynamic Study Modules. The Dynamic Study Modules will be offered as practice tests for each chapter covered for extra credit. These modules test your knowledge of chapters covered and provide feedback on answers that you miss. These extra credit assignments should be done following the completion of your required assignments. These assignments are due Mondays at 11:59 pm. They are worth 1 course point of extra credit each. Therefore, you can earn 17 course points of extra credit by completing all 17 Dynamic Study Modules assignments. While they are time consuming, the modules provide a good weekly practice for your exams and can help you guide your studying.

Adaptive Follow-up Extra Credit Assignments will be available if you score less than 90% on a given end of week homework assignment. Adaptive Follow-ups will be worth 5 extra credit points that will be totaled in your end of week homework score. This is essentially like getting 5 points back towards the assignment that you did. These will be considered as part of the 90% that you need to get full credit for the end of week as stated above. The Adaptive Follow-up Assignments are extra credit and due 1 week following the parent assignment at 11:59 pm.
Assessments: Clickers and Concept Check Sheets

Clickers

The Turning Tech Qwerty\NXT clicker will be used in lecture. Use of the clicker will be covered in lecture during week 1.

In-lecture clicker questions are worth 1.2 points per day (participation is worth 1/2 credit and a correct answer is worth full credit). There will be approximately 26 total days with clicker (equal to 31.2 points) in the term; however, 25 points will be the maximum possible score applied to your overall grade from in-lecture clicker questions. Thus, it will be possible to receive a perfect clicker score even if not all lectures are attended.

Because these points are given for participation in lecture, there are **no makeups (regardless of excused versus unexcused absence)** for these points. Students who have prolonged periods of excused lecture absences should contact Dr. Kayes to discuss their situation.

**Registering your clicker**

In order to receive this credit, you need to register your clicker online by **Friday of Week 1**. There is a registration desk outside the LInC 100 where you should visit with the Clicker Central to get registered if you have not registered previously.

*IMPORTANT: Students cannot receive clicker points except in the lecture/lab section in which they are registered! There is no make-up for in-class points (regardless of excused versus unexcused absence).*

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**Class Activities and Group Concept Check Sheets**

We will be doing collaborative group activities nearly every lecture. Participation is required for learning and success in the course. You will be allowed to select your group on the first day of class. Each week your group will submit a Concept Check Sheet related to the activities done in class that week. The Concept Check Sheets are due at the end of class. You will receive a total of 25 pts for the sheets. Each sheet will be work 3 pts. These will be grades on a scale of 0 credit (didn’t try to get the concept), ½ credit (tried to get the concept but missed it); full credit (got the concept correct). You will be assigned a group grade for each sheet (0 pts. will be awarded to absent members). 9/10 sheets will count towards your final grade but points will be capped at 25 pts.

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**Rules governing Mastering Biology and Clicker Usage**

Do not use someone else’s clicker or complete their Mastering Biology homework – it is academic dishonesty to answer responses for someone else on either of these assignments. The TAs and faculty will be monitoring usage and if we find that you are giving your clicker to someone else or answering using someone else’s clicker, completing someone else’s homework or having someone else complete your homework, this will happen:

a) You both will meet with the course coordinator and the chair of the Biology Program
b) You both lose all credit for clickers or Mastering Biology for the entire term
c) You both may be reported to the Student Conduct Committee for violating the Academic Dishonesty Policy.
Tips for success in Bi213

- Ask if you have questions.
- Take additional notes during lecture and while studying – the posted notes are only to serve as an outline – they are not complete.
- Dedicate time to studying outside of class & between lectures – experts recommend 2-4 hours of outside class study time PER LECTURE HOUR. For our class, you should be studying a minimum of 6-12 hours per week.
- Test yourself frequently over the material using questions that you do not know the answer to (end of chapter question, study area or quizzes in Mastering Biology, Study Guide for Campbell Biology).
- Form productive study groups.
- Visit the Vole Hole or attend extra sessions for help on a regular basis.

OSU Diversity/Discrimination statement: OSU is dedicated to establishing a learning environment that promotes diversity of students’ race, culture, gender, sexual orientation, and physical disability. Anyone noticing discriminatory behavior in this class, or if you feel discriminated against, please notify Dr. Kayes. Discrimination and/or harassment will not be tolerated in the classroom.

Statement of Accessibility: All students have the right to learn from and participate in the classroom. We designed this course with accessibility in mind, and are always open to hearing ways to make it more inclusive and accessible. Please contact Dr. Kayes if you have accessibility concerns.

Religious Observances: Please let Dr. Kayes know if your lecture or lab meetings interfere with any of your religious and/or spiritual practices so that we can make necessary arrangements.

Additional Help

Supplemental Instruction

The Academic Success Center will be offering supplemental instruction for BI213. SI sessions integrate how-to-learn with what-to-learn. Students who attend the SI sessions develop study strategies for note taking, graphic organization, questioning techniques, vocabulary acquisition, and test preparation as they review course material. If you choose to sign up for study tables, you’ll have the opportunity to become actively involved with your classmates as you process the text, supplementary readings, and lecture notes.

SI sessions normally occur in the Collaborative Learning Center in Valley Library. Students attend SI sessions on a voluntary basis and no effort is made to segregate students based upon academic ability. SI will be introduced during the first week of classes and is open to all students in the class. Visit http://success.oregonstate.edu/what-supplemental-instruction for more information.

CANVAS AND COURSE WEBSITE

Class information such as lecture slide outlines, answer keys, etc. are posted on Canvas at http://my.oregonstate.edu. Students must have an operational ONID account to access class material. There will also be announcements and other communications on Canvas. It is advised that you check both the course and the lab Canvas sites at least every other day for updated information. Grades on the Canvas site are not an accurate representation of how you are doing in the class but more for your information about individual assignments. General information and frequently asked questions about the course are also available on the course website: http://bi21x.science.oregonstate.edu/.
Additional OSU and Biology Course Policies

Extenuating Circumstances: Exceptions to the course policies above will be made only in the case of truly exceptional circumstances (serious illness, death in the family, car accident, etc) that are documented (i.e. doctor’s note) and brought to the instructor’s attention PRIOR (if possible) to missing the deadline. The instructor retains the right to decide whether circumstances are extenuating or not. Please contact the Course Coordinator (BI21x@science.oregonstate.edu) with ALL extenuating circumstances.

Statement on Student Responsibility for Laboratory Courses: The laboratory exercises associated with this course were designed to best fit the requirements of demonstrating relevant biological mechanisms and principles. In accordance with this requirement, a complete learning experience may include the use of laboratory animals as a way to achieve the best education for students. The use of living and/or preserved animals gives students a direct and realistic understanding of how complex living systems are put together, an understanding that cannot be gained solely by derivative approaches such as reading a textbook, watching a video, or using a computer. In those cases where an appropriate substitute is available, we have incorporated such exercises into the course. If you have any concerns about your responsibilities in this laboratory course, you need to express your concerns to the lab coordinator before the second week of classes.

Disruptive Behavior: Behaviors disruptive to the learning environment will not be tolerated and will be referred to the Office of Student Conduct for disciplinary action. The goal of Oregon State University is to provide students with the knowledge, skill and wisdom they need to contribute to society. Our rules are formulated to guarantee each student’s freedom to learn and to protect the fundamental rights of others. People must treat each other with dignity and respect in order for scholarship to thrive. Behaviors that are disruptive to learning will not be tolerated, and will be referred to the Student Conduct Program for disciplinary action. Behaviors that create a hostile, offensive or intimidating environment based on gender, race, ethnicity, color, religion, age, disability, marital status or sexual orientation will be referred to the Affirmative Action Office.

Academic Dishonesty: Students are expected to be honest and ethical in their academic work. Academic or Scholarly Dishonesty is defined as an act of deception in which a student seeks to claim credit for the work or effort of another person, or uses unauthorized materials or fabricated information in any academic work or research, either through the student’s own efforts or the efforts of another. It includes: (i) CHEATING, (ii) FABRICATION, (iii) ASSISTING, (iv) TAMPERING, (v) PLAGIARISM - THIS INCLUDES COPYING AND PASTING FROM INTERNET SOURCES!

Academic Dishonesty cases are handled initially by the academic units, following the process outlined in the University's Academic Dishonesty Report Form, and will also be referred to SCCS for action under these rules. See http://studentlife.oregonstate.edu/sites/studentlife.oregonstate.edu/files/student_conduct_code_1.pdf for more information about the Student Conduct Code.

Your instructor may ask you to submit one or more of your writing assignments to the TurnItIn plagiarism prevention service. Your assignment content will be checked against Internet sources, academic journal articles, and the papers of other OSU students, for common or borrowed content. TurnItIn generates a report that highlights any potentially unoriginal text in your paper. The report may be submitted directly to your instructor or your instructor may elect to have you submit initial drafts through TurnItIn and you will receive the report, allowing you the opportunity to make adjustments and ensure that all source material has been properly cited.

Students with Disabilities: Accommodations for students with disabilities are determined and approved by Disability Access Services (DAS). If you, as a student, believe you are eligible for accommodations but have not obtained approval please contact DAS immediately at 541-737-4098 or at http://ds.oregonstate.edu. DAS notifies students and faculty members of approved academic accommodations and coordinates implementation of those accommodations. While not required, students and faculty members are encouraged to discuss details of the implementation of individual accommodations. In BI21x, please discuss accommodations with the course coordinator.
<table>
<thead>
<tr>
<th>Week/Date</th>
<th>Monday</th>
<th>Wednesday</th>
<th>Friday</th>
<th>LABS</th>
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<tbody>
<tr>
<td>Week 1</td>
<td>DNA and The Chromosome</td>
<td>Control of the Cell Cycle, Mitosis and Cancer</td>
<td>Ploidy, Sexual Cell Cycle and Meiosis</td>
<td>Understanding Mitosis and Meiosis</td>
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<tr>
<td>04/03-04/07</td>
<td><em>Ch. 16.3: 328 - 330</em></td>
<td><em>Ch. 12.1-3: 232-248 Ch. 18.5:383-384 (Stop at Interference...)</em></td>
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<tr>
<td>Week 2</td>
<td>Sources of Variation in Meiosis and Mendel’s Laws</td>
<td>Probability and the Inheritance of Multiple Genes</td>
<td>Chromosomes and Sex Determination</td>
<td>Genetics</td>
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<tr>
<td>04/10-04/14</td>
<td><em>Ch. 13.4 -14.1: 263-274</em></td>
<td><em>Ch. 14.2-4: 274-285</em></td>
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<tr>
<td>Week 3</td>
<td>Linkage Maps and Genetic Balance</td>
<td>DNA Structure and Function</td>
<td>DNA Replication</td>
<td>PTC: It’s a Matter of Taste (Part 1)</td>
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<tr>
<td>04/17-04/21</td>
<td><em>Ch. 15.3-4:299-307</em></td>
<td><em>Ch. 16.1:312-318</em></td>
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<tr>
<td>Week 4</td>
<td>In Class Review/No Quiz</td>
<td>Transcription</td>
<td>Translation and Mutation</td>
<td>Group Exam</td>
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<tr>
<td>04/24-04/28</td>
<td><strong>Midterm I</strong> 7 pm</td>
<td><em>Ch. 17.1-3 :336-344</em></td>
<td>*Ch. 17.4-5: 345-351,355-357, Figs 17.4,17.5</td>
<td>PTC: It’s a Matter of Taste (Part 2)</td>
</tr>
<tr>
<td>Week 5</td>
<td>Mutation and Gene Evolution</td>
<td>Regulation of Gene Expression</td>
<td>Forces that drive evolution change allele frequencies</td>
<td>Are Humans Evolving by Natural Selection?</td>
</tr>
<tr>
<td>05/01-05/05</td>
<td><em>Ch. 22: 467-470; Ch. 21.4-5:444-53</em></td>
<td><em>Ch. 18.2-3:365-376 Ch. 18.5:383-384 (Stop at Interference...)</em></td>
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<tr>
<td>Week 6</td>
<td>Natural Selection and Evolution of Populations</td>
<td>Evidence of evolution and The species concept</td>
<td>Speciation and the maintenance of species</td>
<td>Investigating the Behaviors of Invasive Crayfish</td>
</tr>
<tr>
<td>05/08-05/12</td>
<td><em>Ch. 23.3-4:487-499</em></td>
<td><em>Ch. 22.3: 471 – 478 Ch.24.1-2:500-505</em></td>
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<tr>
<td>Week 7</td>
<td>In Class Review/No Quiz</td>
<td>Intro to Ecology</td>
<td>Behavioral Ecology</td>
<td>Group Exam</td>
</tr>
<tr>
<td>05/15-05/19</td>
<td><strong>Midterm II</strong> 7 pm</td>
<td><em>Ch. 52.1-2: 1158-1170</em></td>
<td><em>Ch. 51.1-2 :1133-1143</em></td>
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<tr>
<td>Week 8</td>
<td>Behavioral Ecology (Cont.)</td>
<td>Population ecology</td>
<td>Population ecology (Cont.)</td>
<td>Impacts of False Brome Removal on Oak Creek I</td>
</tr>
<tr>
<td>05/22-05/26</td>
<td><em>Ch. 51.3:1143-1149</em></td>
<td><em>Ch. 53.1-2:1184-1192</em></td>
<td><em>Ch. 53.3-5:1192-1201</em></td>
<td>Impacts of False Brome Removal on Oak Creek II</td>
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<tr>
<td>Week 9</td>
<td>Memorial Day No Class/No Quiz</td>
<td>Community ecology</td>
<td>Community ecology (Cont.)</td>
<td>Home Range Size and Endangered Species Conservation</td>
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<tr>
<td>05/29-06/02</td>
<td></td>
<td><em>Ch. 54.1-2 :1208-1228</em></td>
<td><em>Ch. 54.3-4 : 1230-1228</em></td>
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<tr>
<td>Week 10</td>
<td>Ecosystems</td>
<td>Global Ecology</td>
<td>Global Ecology (Cont.)</td>
<td>Climate Change and Amphibian Migration</td>
</tr>
<tr>
<td>06/05-06/09</td>
<td><em>Ch. 55.1-4 :1232-1248</em></td>
<td><em>Ch. 56.1(threats): 1258-1260; Ch. 56.3:1265-1269 (skip urban ecology)</em></td>
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</tbody>
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**FINAL EXAM: Wednesday, June 14th at 7:30 am**