Bi213-002 Principles of Biology (Night Section) ORG, BIODIV & CONSER (CRN: 60374)
Spring 2019 Syllabus
Portland State University
M/W 6:40 pm – 8:30 pm Hoffman Hall 109

Course Description

The Principles of Biology sequence (Bi 211, 212, and 213, along with labs Bi 214, 215 & 216) introduces the foundations of life science. In Bi 213 and 216, we examine how biotic and abiotic factors impact living organisms and the physiological underpinnings that allow organisms to survive. Specific topics include physiology, organismal systems (water balance, gas exchange, nervous, circulatory, endocrine), global, community and population ecology, biodiversity and conservation.
Co-requisite: Bi 216 Principles of Biology Lab
4 Credit hours

Instructor

Dr. Stefanie Kautz; email: skautz@pdx.edu
Office: SRTC B1-62C
Please DO NOT use the online course resource (D2L) email address to contact me. Please use **skautz@pdx.edu**
Office hours: Mondays 5 pm to 6 pm and by appointment

Lecture TA

Emily Wolfe; email: emwolfe@pdx.edu
Office hours: 11 am to 12 pm on Fridays in CLSB 2N004

Required items

Text: 'Biological Science' by Scott Freeman, 6th edition (Pearson); access code not required, 4th and 5th editions will also suffice.
iClicker+ or iClicker 2. You must have a clicker to get your answers counted.
Exams: 4 Scantron forms (Form SC982-E 100 item full page form, available at PSU bookstore) #2 pencil, & photo ID
Optional: "Study Guide for Biological Science" 6e
"Mastering Biology" access code MBKAUTZ29839

Course Web Page

The PSU online resource "D2L" will be used for posting course materials and grades. Log in at https://d2l.pdx.edu with your PSU username and password. Material will be posted by 4 pm on the day of the lecture.
Problems with D2L access should be directed to OIT:
Phone | 24 hours a day, 7 days a week 503-725-HELP (4357)
Helpdesk Email | Technology Questions & Concerns help@pdx.edu
Location | Mon-Fri 8:00 a.m.-7:00 p.m.
Smith Memorial Student Union
Room 18 (basement level)
1825 SW Broadway
Portland, OR 97201

Lectures

Mondays and Wednesdays 6:40 pm – 8:30 pm Hoffman Hall 109

Labs

Bi 216 is a co-requisite lab course for Bi 213. Though the course has a separate instructor and you'll receive a separate grade, you must register for Bi 216 in addition to Bi 213. **You must attend the first lab to maintain your spot in this class. You may be dropped from the course if you do not arrive in the first 15 minutes.**

Learning Objectives

- Define and discuss correlations between form and function in organisms
- Compare and contrast major organ systems of different animal groups
- Explain physiological processes in animals
- Discuss how organisms interact with each other and their environment
- Compare and contrast different levels of ecology
- Understand basic global cycles
- Effectively utilize the vocabulary of anatomy, physiology, and ecology

Exams

There will be three class exams (50 multiple choice questions) and a final exam (80 multiple choice questions). Exams will cover subjects and vocabulary presented in lecture or lab, whether that material is in the textbook or not. Furthermore, you are expected to know what is in the assigned reading, even if we don't cover that material in lab or lecture. Do not take this course if you cannot attend all 4 exams. See schedule below for exam dates. **No makeup exams will be given for any reason whatsoever. Do not take this course if you cannot commit to regular attendance or cannot attend exams or in class activities.**

Important Dates

April 7	Drop deadline (100% refund)
April 08	**In class activity (DDP1)**
April 17	**Exam 1**
April 22	**In class activity (DDP2a)**
April 29	**In class activity (DDP2b)**
May 06	**Exam 2**
May 13	**In class activity (DDP3)**
May 19	Withdraw/grading option change deadline
May 27	Memorial Day (no class, Monday labs will be rescheduled)
June 3	**In class activity (DDP4)**
June 5	**Exam 3**
June 10	**Final Exam** (Monday, 7:30 pm to 9:20 pm)

A more detailed academic calendar can be viewed here
http://www.pdx.edu/registration/calendar

Grading

Item	Points (each)	Points (total)	Percent
Clicker questions *	1	Ca. 100	**10 %**
Reading quizzes (6)**	5	25	**10 %**
In class activities (5) **	10	40	**5 %**
Activity quizzes (6)**	5	25	**5%**
Lecture Exams (3)**	50	100	**45 %**
Final Exam (1)	80	80	**25 %**
Total			**100 %**

* you will receive 0.5 points for incorrect answers and 1.0 points for correct answers * if you have earned 75% or more of the possible clicker points, you will receive full clicker points
** lowest score in this category will be dropped

92.5-100%= A, 89.5-92.4%=A-, 87.5-89.4%= B+, 82.5-87.4%= B, 79.5-82.4%=B-, 77.5-79.4%= C+, 72.5-77.4%= C, 69.5-72.4%=C-, 67.5-69.4%= D+, 62.5-67.4%= D, 59.5-62.4%=D-, 0-59.4%= F.

There will be no exceptions or bumping up of grades for being "close".

Classroom Participation

Each lecture session will include questions to be answered using the required iclickers.

Week 1 clicker questions will not be graded; weeks 2-10 will count toward your grade. You will receive 0.5 points for incorrect answers and 1.0 for each correct answer. At the end of the term, if you have earned 75% or more of the possible clicker points, you will receive full clicker points. **Missed clicker questions cannot be made up.**

You must be physically present to answer clicker questions. **Any instance of cheating with clickers will result in a zero for the final clicker grade.**

iclicker registration: To receive clicker grades, you must register your clicker via the link the course d2l site and associate it with your PSU ODIN ID name by Friday of week 1.

There are two ways to register:

1) Login to d2l, click on this course (Bi212 – Principles of Biology I) and find the iclicker registration link in the iclicker registration module under Activities/Course Content. Enter your Remote ID. The Remote ID is the 8-character alphanumeric code printed below the barcode on the back of your remote, or within the battery compartment. This should link automatically to your d2l account.
2) Or, to register online, go to http://iclicker.com/ and click on the "Register" button.

- Enter your First Name and Last Name in the appropriate fields.
- In the "student ID" field, enter your ODIN ID (Use your ODIN username/login, NOT your 9-digit number). For example, if your PSU email address happens to be kittens09@pdx.edu, your ODIN ID is kittens09.
- Enter your remote ID. The Remote ID is the 8-character alphanumeric code printed below the barcode on the back of your remote, or within the battery compartment.
- Enter the letters or number in the Image Code on the screen. You can request another image if you find the first hard to heard, or play an audio reading of it instead.
- Click on the Register button. An on-screen message confirms that registration was successful. Your PSU Odin ID login is now associated with your unique iclicker ID, and your clicker answers can now be graded.

Use Frequency AA in class.

In Class Activities

There will be four in-class small group exercises (see schedule for dates). The lowest score from these exercises will be dropped. If you miss one of these exercises for any reason, that score will be dropped as your lowest. There will also be d2l online quizzes before and after each activity. **Missed group exercises cannot be made up.**

Online Quizzes

Throughout the course there will be 6, 5-point online reading quizzes. They are to be taken through d2l. These quizzes must be completed by the announced due date and time to get the points. There will be no make-up or late quizzes. I will announce these in class and on d2l. Quizzes will be posted by Sunday, 6 pm and you will have 72 hours to complete the quizzes (Wednesday 6 pm). Once you begin the quiz, you will have 90 minutes to complete the quiz. You may not take multiple attempts at the quiz.

Disability

If you have a disability and are in need of academic accommodation: first register with the Disability Resource Center (503) 725-4150, http://www.drc.pdx.edu, then notify Dr. Kautz to make appropriate arrangements.

To ensure all students with disabilities receive the accommodations they are entitled to, Dr. Kautz needs advance notice that you plan on using them. To guarantee accommodation, please confirm that Dr. Kautz has received your accommodation letter from the DRC, and notify her at least a week before the exam date with specific testing arrangements.

Note: Students with testing accommodations may take exams at the PSU Testing Center. These exams must be taken the same day and overlap with the time period as class exams.

Making your testing center appointments: To ensure optimal appointment times, please schedule exams with the testing center and e-mail your appointment times for all 4 exams to Dr. Kautz by **5pm on Monday of week 2.**

Academic Courtesy

1. Students are expected to arrive for class on time so that lectures start and end according to schedule.
2. Respect the rights of fellow students during the class period.
3. Please avoid talking or other distracting behavior, and turn phones off.
4. Everyone is expected to help maintain the appearance of the classroom. After class, all trash should be removed and discarded appropriately.

Academic Honesty

Cheating or plagiarism of any kind will not be tolerated. See the PSU "Code of Student Conduct and Responsibility" for more information: http://www.pdx.edu/dos/codeofconduct. If cheating is observed, the grade for the assignment will be a "0", and cannot be dropped as a lowest score. The student will be reported to University officials as described in the Code (577-031-0142: Procedures for Complaints of Academic Dishonesty). In a second instance of cheating, a "0" will be given for the course.

Safe Campus Module

Portland State University is committed to creating a safe campus for all students, and as part of this you are required to complete the Safe Campus Module in D2L. Log in to D2L, and under "My Courses," you'll find a sub-tab titled "Ongoing." Under the "Ongoing" sub-tab, you will see a course titled "Creating a Safe Campus." Click on this course and follow the prompts to complete the module.

Title IX Statement

Portland State is committed to providing an environment free of all forms of prohibited discrimination and sexual harassment (sexual assault, domestic and dating violence, and gender or sex-based harassment and stalking). If you have experienced any form of gender or sex-based discrimination or sexual harassment, know that help and support are available. PSU has staff members trained to support survivors in navigating campus life, accessing health and counseling services, providing academic and on-housing accommodations, helping with legal protective orders, and more. Information about PSU's support services on campus, including confidential services and reporting options, can be found on PSU's Sexual Misconduct Prevention and Response website at: http://www.pdx.edu/sexual-assault/get-help or you may call a confidential IPV Advocate at 503-725-5672. You may report any incident of discrimination or discriminatory harassment, including sexual harassment, to either the Office of Equity and Compliance or the Office of the Dean of Student Life.

Please be aware that all PSU faculty members and instructors are required to report information of an incident that may constitute prohibited discrimination, including sexual harassment and sexual violence. This means that if you tell me about a situation of sexual harassment or sexual violence that may have violated university policy or student code of conduct, I have to share the information with my supervisor, the University's Title IX Coordinator or the Office of the Dean of Student Life. For more information about Title IX please complete the required student module Creating a Safe Campus in your D2L.

Emergency Information

If you are off campus or walking to campus dial **911**.
PSU 24 hour Campus Safety: emergency 503-725-4404,
non-emergency 503-725-4407

Other PSU Resources

Student Health and Counseling: 503-725-2800, https://www.pdx.edu/shac/
Women's Resource Center: 503-725-5672, http://www.pdx.edu/wrc/
Global Diversity and Inclusion, 503-725-5919, http://www.pdx.edu/diversity/
C.A.R.E Team: http://www.pdx.edu/dos/care-team

Creating an equitable learning environment

- Discussion in this class will be conducted in adherence to the University nondiscrimination policy.
- We should respect diverse points of view. We do not need to come to an agreement on any particular issue: we can agree to disagree.
- Our use of language should be respectful of other persons or groups. (As your instructor, I will not let injurious statements pass without comment.)
- You need not represent any group, only yourself, though you may choose to represent a group if you wish.
- If you feel uncomfortable about any aspect of the class environment, it is your responsibility to discuss it with the instructor.

Tips For Success

1. **Be an active learner. Read the book ahead of class**. Attend all lectures. You are responsible for all topics discussed in the lecture, even if they do not appear in the online notes. Take notes during class – do not rely on the printed-out class notes alone. Write down questions that come to mind during the lecture. Identify points in the lecture that you think are

the main points. Review your notes after class, incorporating details that you remember but didn't get written down. While you are reading the textbook, take time to think about what you are reading. How does it fit with what you know already? Combine the information from the lecture and the text into one set of complete notes to review and study. Consider using the Cornell System of note-taking and review: a simple but powerful method for studying. See: http://lsc.cornell.edu/wp-content/uploads/2015/10/Cornell-Note_Taking-System.pdf

2. **Figure out and use your learning strengths.** Learning styles vary from person to person. You might do your best studying through reading, writing, drawing, or through discussion with fellow students. Most likely, it will take some of each to be most successful. Experiment, and use the techniques that work best for you.

3. **Spend time on this course.** Schedule and spend time reading and reviewing course materials. Revisit your notes and think about the logical structure underlying the subjects. Plan on spending a significant amount of time **(20-30 hours/week)** working on this course. Later topics build upon earlier portions of the course: please do not let yourself fall behind.

4. **Ask for help if you need it.** Come to my office hours, talk to your TA, find a study partner or study group, use the Discussions board on D2L, etc. You'll make the best progress when you work to identify the areas you need to work on and are active about seeking guidance.

5. **Use the University resources.** Campus services are available to help you with all aspects of your education, see http://www.pdx.edu/studentaffairs. PSU's undergraduate advising website is http://www.pdx.edu/advising. The Undergraduate Advising and Support Center (UASC), 425 Smith Center, http://www.pdx.edu/advising/academic-resources-and-services, offers academic advising and referral, academic support programs, community college relations, disability resource center, athletics advising, study skills workshops, tutorial programs, and student veteran services. The Peer Tutoring and Learning Center offers tutoring in many subjects (including Biology), as well as various workshops, see http://www.pdx.edu/tutoring/.

Week	Dates	Scheduled Topics[1]	Lab (Bi 216) and Reading
1	M Apr 01 W Apr 03	Introduction, Syllabus Chapters 39 and 40: Animal form & function; Water & electrolyte balance, Intro to DDP topic	Lab 1: Scientific Literature **Chapters 39 & 40**
2	M Apr 08 W Apr 10	M: DDP1 (nutrition) Chapters 41 & 42: Nutrition; Gas exchange **Activity quiz due April 08, 6 pm** **Reading quiz due April 10, 6 pm**	Lab 2: Open-Source Programming and Statistics **Chapters 41 & 42**
3	M Apr 15 W Apr 17	Chapters 43: Nervous system **W: Hour Exam 1 W April 17 (Chapters 39, 40, 41, 42, 43)**	Lab 3: Water Quality **Chapters 43**
4	M Apr 22 W Apr 24	M: DDP2 (Endocrine disrupting chemicals) Chapters 44 and 45: Sensory systems and Animal Movement **Activity quiz due April 22, 6 pm** **Reading quiz due April 24, 6 pm**	Lab 4: Tonicity **Chapters 44 & 45**
5	M Apr 29 W May 01	M: DDP2b (Endocrine disrupting chemicals) Chapter 46: Chemical signals **Activity quiz due April 29, 6 pm** **Reading quiz due May 1, 6 pm**	Lab 5: Nutrition **Chapters 46**
6	M May 06 W May 08	**Hour Exam 2 on M May 06 (Chapters 43, 44, 45, 46)** Chapter 49: Intro. to ecology	Lab 6: Homeostasis** **Chapter 49**
7	M May 13 W May 15	M: DDP3 (Plastics) Chapters 50 & 51: Behavioral ecology, Population ecology **Activity quiz due May 13, 6 pm** **Reading quiz due May 15, 6 pm**	Lab 7: Behavioral Ecology I **Ch 50 & 51**
8	M May 20 W May 22	Chapter 52 and 53: Community ecology, Ecosystems **Reading quiz due May 22, 6 pm**	Lab 8: Behavioral Ecology II **Chapters 52 & 53**
9	M May 26 W May 28	Monday: Memorial Day (no school, Monday labs will be rescheduled) Guest lecture: Todd Rosenstiel (Dean's office and Bio) Chapter 53: Ecosystems **Reading quiz due May 28, 6 pm**	Lab 9: Population Ecology **Chapter 53**
10	M Jun 03 W Jun 05	M: DDP4 (Carbon Taxation) Chapters 54: Biodiversity & conservation **Hour Exam 3 W June 05 (Ch. 49, 50, 51, 52, 53, 54)** **Activity quiz due June 03, 6 pm** **Post activity quiz due June 6, 6 pm**	Lab 10: Project Presentations, **Chapters 54**
Finals	M Jun 10	**Final Exam: Comprehensive. 7:30 pm – 9:20 pm**	**No Labs this Week**

[1] Lecture topics may change from those listed in the syllabus

** There are 4 test lab sections that will be doing a different project on indicated lab days

Before you print out the lecture slides, please consider if you really need them printed – conserve paper and trees! If you do print, print double-sided with multiple slides per page.