

Syllabus for Bi 252: Principles of Biology
Winter 2014 Portland State University

Course Description	The Principles of Biology sequence (Bi 251, 252, and 253) introduces the foundations of life science. In Bi 252 we examine the structure, diversity, and evolution of life, with a focus on animals and plants. Topics include evolutionary processes, phylogenetics, animal diversity and morphology, and plant diversity and morphology.
Prerequisite	Chemistry 221 and 227 (or concurrent enrollment)
Instructors	Dr. Daniel Ballhorn (DAY) Email: ballhorn@pdx.edu (do NOT use Desire 2 Learn (d2l) email!) Office Hours: Mondays, Wednesday 1:00-3:00 PM, SRTC B1-62A <i>or</i> by appointment
Lectures	Sect. 1: MWF 11:30 – 12:35, Hoffmann Hall 109, CRN 40346 Sect. 2: MW 18:40 – 20:30, Hoffmann Hall 109, CRN 40347
Final Exam	THURSDAY, March 20, 1230-1420, Hoffmann Hall (DAY)
Required Materials	REQUIRED: “Biological Science” by Scott Freeman, 5 th edition REQUIRED: i>clicker (<i>or</i> i>clicker 2 <i>or</i> i>clicker +) REQUIRED: Laboratory handouts, posted on d2l REQUIRED: four 882-E Scantrons; #2 pencil; photo ID OPTIONAL: “Study Guide for Biological Science”, 5 th edition OPTIONAL: “MasteringBiology” course access
Course Web Page	We will use the PSU online resource “Desire 2 Learn (d2l)” for posting daily notes, announcements, exam grades, the lab manual, and other course materials. Log in at http://psuonline.pdx.edu/ <i>or</i> directly via https://d2l.pdx.edu .
Important Dates	Jan 12 Drop deadline (course not on transcript) Jan 20 MLK Jr. Day – Monday labs are rescheduled Jan 22 Lecture Exam 1 Feb 10 Lecture Exam 2 Feb 23 Grading option change/withdraw deadline Feb 26 Lecture Exam 3 Mar 20 Final Exam 1230-1420 (Day) Hoffmann Hall

Web registration of your i>clickers

In order to reduce loss of time during lectures in week 1 online registration of your i>clickers is expected. To register online, go to iclicker.com and click the 'Register Your i>clicker' button.

To complete the student registration form:

1. Click 'yes' to the LSM question
2. Enter your 'First Name' and 'Last Name' in the appropriate fields.
3. Enter your 'Student ID' (your ODIN username/login **NOT** the 9 digit number).
4. Enter your i>clicker 'Remote ID'. The remote ID is the 8-character alphanumeric code printed below the barcode on the back of their remote.
5. Enter the 'Image Code'. You can request another image if you find the first hard to read, or play an audio reading of it instead.
6. Click the 'Register' button. An on-screen message confirms that registration was successful. Your ODIN ID is now tied to your unique i>clicker remote ID for the term.

Grading

Lecture (total 75%):

Classroom response ("i>clicker") questions: 10%

Class exams (best 2 of 3): 20% each (40% total)

Comprehensive final exam: 25%

Laboratory (total 25%):

See the Bi 252 laboratory syllabus for grading details.

Exams

There will be three class exams. Your lowest class exam score will be dropped. **No make up exams will be given.** The final exam will cover the whole course, and **cannot** be dropped.

Classroom Response

Each lecture session will include questions to be answered using the required "i>clickers". The first week's questions will not be graded, but weeks 2-10 will. Your lowest 3 session scores will be dropped.

Missed clicker questions cannot be made up. You must be present to answer clicker questions. Any instance of cheating with clickers will result in a zero for the final clicker grade for all students involved. 1 pt. for correct answer, 0.5 pt. for participation

Grading Policy

Grades will be assigned according to the percentage of possible points earned. As a rough guide, the top score on any given exam can be thought of as 100%. If you earn at least 90% of the highest score you will receive an A- or higher; if you earn at least 80% you will receive a B- or higher; if you earn at least 70% of the possible points you will receive a C- or higher; if you earn at least 60% of the possible points you will receive a D- or higher.

Classroom Policies

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/conductcode>. **If cheating occurs, the grade for the assignment will be a “0” (and will not be dropped), and the student will be reported to University officials as described in the Code** (577-031-014: Procedures for Complaints of Academic Dishonesty).

Academic Courtesy

Respect the rights of fellow students during the class period. Please avoid talking and other distracting behavior, and turn phones off.

Schedule

Students are expected to arrive for class on time so that lectures and labs start and end according to schedule.

Facilities

Everyone is expected to help maintain the appearance of the classroom. After class, all trash should be removed and discarded appropriately.

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.pdx.edu/uasc/drc.html>, then notify Dr. Ballhorn to make appropriate arrangements. Students with testing accommodation must take exams on the same day as scheduled lecture exams.

Weather

As our class takes place during the winter, severe weather might cause university closures or delays in opening etc. Officials will announce any delays or closures early in the morning via PSU Alert and a bulletin on the PSU homepage at <http://www.pdx.edu>. For more information on PSU's inclement weather policies and procedures, go to <http://www.pdx.edu/hr/news-announcements>. Contact your TA, head TA and professor if you cannot make it to the labs due to weather.

Labs in SB1

You are required to attend each lab, and to arrive for all of your labs on time. Missed labs cannot be made up.

A badge access ID is required to enter Science Building 1 for labs that take place at 6am and on Saturdays. This is different than your student ID. Please make sure you have obtained a badge access ID from Neuberger by the second week of classes, if you do not already have one.

Week	Dates	Scheduled Topics¹
1	Jan 06 – Jan 10	Lecture: Animal & Plant Development Text: Chapters 22, 23 & 24 Lab: 1: Developmental Biology
2	Jan 13 - Jan 17	Lecture: Natural Selection; Evolutionary Processes Text: Chapters 25 & 26 Lab: 2: Natural Selection
3	Jan 20 - Jan 24	Lecture: Speciation Text: Chapter 27 Lab: 3: Cnidarians, Platyhelminthes, Nematodes, and Annelids <i>No lectures or labs on Monday, Jan 20 (MLKJr. Day)</i> HOURLY EXAM 1 on Wednesday, January 22
	EXAM	
4	Jan 27 - Jan 31	Lecture: Phylogenies & the History of Life; Protists Text: Chapters 28 & 30 Lab: 4: Mollusks
5	Feb 03 - Feb 07	Lecture: Taxonomy and Introduction to Animals; Protostomes Text: Chapter 33 & 34 Lab: 5: Arthropods
6	Feb 10 - Feb 14	Lecture: Deuterostomes Text: Chapter 35 Lab: 6: Phylogeny and Comparative Anatomy of Deuterostomes HOURLY EXAM 2 on Monday, February 10
	EXAM	
7	Feb 17 - Feb 21	Lecture: What is a plant?; Photosynthesis; Plant Form and Function Text: Chapters 10 (review) & 37 Lab: 7: Photosynthesis and Plant Pigments
8	Feb 24 - Feb 28	Lecture: Plant Reproduction; Phylogeny (Green Algae & Land Plants) Text: Chapters 41 & 31 Lab: 8: Vegetative Structures and Function HOURLY EXAM 3 on Wednesday, February 26
	EXAM	
9	Mar 03 - Mar 07	Lecture: Water & Sugar Transport; Plant Nutrition; Plant Sensory Systems Text: Chapters 38, 39 & 40 Lab: 9: Stomatal Density
10	Mar 10 - Mar 14	Lecture: Fungi Text: Chapters 32 Lab: 10: Reproduction; SPECIES ACCOUNTS DUE
Finals	Mar 19 - Mar 21	EXAM 4 (FINAL EXAM) THURSDAY, March 20 1230 – 1420 (DAY section)

*Lecture topics may change from those listed in the syllabus.

Exams will be given as scheduled.

Tips for Success

If you are unfamiliar with college coursework, we recommend you attend the Skills Enhancement and Tutoring Center's workshops (<http://www.setc.pdx.edu/>), with topics including Time Management, Note Taking and Reading Skills, Test Taking Strategies, etc.

Be an active learner. 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. Try the Cornell System of note-taking and review: a simple but powerful method for studying. See: http://lsc.sas.cornell.edu/LSC_Resources/cornellsystem.pdf

Figure out and use your learning strengths. Learning styles vary from person to person. You might do your best studying through reading, writing, or 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.

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 (10-12 hours/week) working on this course. Later topics build upon earlier portions of the course: please do not let yourself fall behind.

Ask for help if you need it. Come to our office hours, talk to your TA, find a study partner or study group, use the Discussions board on Blackboard, etc. You'll make the best progress when you are active about seeking answers.

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, <http://www.pdx.edu/uasc/>, offers academic advising and referral, academic support programs, community college relations, disability resource center, athletics advising, study skills workshops, tutorial programs, and veteran services.