

BIO 1102 Fall 2016

Foundations of Biology. Major biological principles with emphasis on their importance to humans and modern society; designed for non-science majors.

Instructor

Dr. John Cooley

Contact information:

- Office: HART 206
- Email: [REDACTED]
- Office Hours: Th. 10:45-1:30
- Website: HuskyCT

Meetings:

- Tuesdays, Thursdays 9:30-10:45 AM
- HART 217
- Labs: HART 206

Grading

There are four exams and a comprehensive final exam in this course. The first exam is a “mini” exam worth 75 points, and the remaining exams are worth 100 points. The final exam is worth 125 points. Exam 4 will be administered at the same time as the final exam.

The laboratory portion of this course counts for roughly 1/3 of your course grade. Your grade in lab will be based on criteria described by your TA. However, because of the significance of the laboratory experience in this course to the General Education Requirements, you should be aware that you cannot pass this course without passing the laboratory portion. Please note that you cannot pass this course if you miss more than 2 labs, regardless of whether they are “excused” or not.

Clickers and class activities are used in this course to promote active learning. Participation points are awarded regardless of whether your answers are correct. You will receive 3 points per lecture for participation in any lecture that includes clicker questions, for a maximum of 50 points during the semester. There are no make-ups for these points. Register your clicker through the course HuskyCT site no later than September 9.

Grading

<i>Item</i>	<i>Points</i>	<i>Date</i>
Mini Exam 1	75	Sep 15
Exam 2	100	Oct 6
Exam 3	100	Nov 8
Exam 4	100	TBA
Final Exam	100	TBA
Lab Quizzes and Exercises	225	Weekly
Total	700	

Textbook and other Resources

There is a required laboratory manual for this course, to be distributed via HuskyCT. You must prepare for each laboratory section beforehand by reading the lab exercise. You should have a simple scientific (not graphing) calculator (not a cell phone) for lecture and lab. **You must bring a hard copy of each week's lab exercise to lab.** A 3-ring binder is a good way of organizing your lab materials.

There is a required textbook "Concepts of Biology" which is available for free download from: (<http://open.umn.edu/opentextbooks/BookDetail.aspx?bookId=168>). You can also obtain a hard copy for \$29.00 from various online booksellers.

I will provide full lecture notes and slides **after** each lecture has been given.

We will use a "clicker" system in lecture to encourage active participation and award bonus participation points. The Bookstore sells new and used "i>clicker 2" units; you can also find them for sale on the Internet.

Lab

Labs meet weekly. The materials for each lab will be distributed via HuskyCT, and **you are required to download and print a copy of the materials and bring it to lab each week.** It is suggested that you keep all lab materials in a 3-ring binder.

Each week, you will take a quiz on HuskyCT. Half of the quiz will consist of questions for the lab you will do that week. You should be able to earn all these by reading the lab manual before attending lab. The other half of the quiz will consist of questions based on the lab you just completed. Make sure to keep detailed notes and records of your lab activities so that you can do well on this part of the lab quiz. You will have one week to complete each quiz, and no makeups will be given. You cannot receive credit for questions based on a lab you did not attend.

Lecture and Lab Schedule

<i>Date</i>	<i>Unit</i>	<i>Lecture</i>	<i>Pages in Concepts of Biology</i>	<i>Lab</i>
Aug 30	Building Blocks of Life	Introduction	Chapter 1	No Labs
Sep 1		Energy and Molecules	Chapter 2	
6		The Architecture of Life	Chapter 3	Microscopy/ Cell Diversity
8		Photosynthesis	Chapter 5	
13		Respiration	Chapter 4	Bathroom Challenge, Rye Seed Planting
15		Mini Exam 1		
20	The Diversity of Life	Systematics and Speciation	Sections 12.1, 11.4	Bathroom Challenge Data Collection and Analysis
22		Plants	Chapter 14	
27		Invertebrates	Sections 15.1-15.5	Organismal Diversity
29		Vertebrates	Section 15.6	
4		Animal Behavior		Animal Behavior
Oct 6		Exam 2		
11	Body Architecture	Genetics	Chapter 8	Genetics
13		Reproduction	Chapter 18	
18		DNA, Genes, and Proteins	Chapter 9	DNA technology and Forensics
20		Disease	Chapter 17	
25		Cardiovascular System	Section 16.3	Cardiovascular System
27		Musculoskeletal System	Section 16.5	
Nov 1		Nervous System	Section 16.6	Muscle Structure and Exercise Physiology
3		Odds, Ends, and Review		
8	Life in Context	Exam 3		Seedling Data Analysis
10		Population Growth	Sections 19.1-19.3	
15		Population Growth	Sections 19.1-19.3	Population Growth
17		Conservation Biology		
29		Selection and Fitness	Chapter 11	Evolution
Dec 1		Biological Pathways	Sections 21.1, 20.2	
6		Climate		Environmental Biology
8		Biology in Context, Review		
TBA		Exam 4 and Final Exam		

Course policies

It is your responsibility to register your clicker, and there are no makeups for missed clicker points. You must attend only the lab in which you are registered, and there are no make-ups for labs. Lab seating is regulated by UConn fire code. If you show up in a lab section for which you are not registered, you will not be allowed to stay.

If you have taken the Biology 1102 lab previously, you **cannot use a lab manual from a previous semester** and you cannot receive credit for assignments turned in during the prior semester.

Because of the significance of the laboratory experience to the General Education Requirements, you cannot pass this course without passing the laboratory portion. You cannot miss more than 2 labs, excused or not, or you will fail Biology 1102. You must earn at least 60% of the points in lab in order to pass the lab and the course. Your instructor will determine when the laboratory exercises are finished. You are expected to complete all graphs, charts, and tables in your lab manual because your instructor may collect assignments from the lab manual without telling you in advance. If you leave the lab before your instructor determines that you are finished or you do not do the lab exercises during lab, you will be counted as absent for that day.

IMPORTANT: If you do anything in lab that your instructor finds distracting to the learning environment in any way, your final lab point total will be reduced by 1.5 points for each instance with no limits. Examples include, but are not limited to: texting or other phone use, unnecessary talking or comments, excessive absences from lab in the hallway or the bathroom, inappropriate language before, during, or after lab, interfering with another student in your lab etc.. Instructors are not required to discuss distraction penalties with offending students during lab period. In addition, to ensure an effective learning environment, your instructor may assign lab seats to students. You are required to sit in the seat that your instructor assigns to you or you will receive distraction penalties.

If you have legitimate documentation for an absence you can receive a makeup assignment or attend a different lab section the same week. To do this, you **MUST** discuss the situation with Dr. Cooley.

Getting help

Stuck? Need help? Ask!

Email is the best way to contact me, but you must put "BIO 1102" in the subject line to ensure that your message does not get filtered as SPAM. Your success in this course depends on your motivation to make due dates and schedule meetings with me. Students who are more highly motivated tend to do better.

Students With Disabilities

Students who need accommodations should contact the Center for Students with Disabilities as soon as possible to verify their eligibility for reasonable accommodations. For more information, please go to <http://www.csd.uconn.edu/>.

Absences

If you are unable to attend class for any reason, please alert me as soon as possible, but certainly before class. The sooner you tell me, the easier it will be to arrange a make-up assignment. You are responsible for all assignments even if you miss class, regardless of the reason. Only a note from a physician, your academic advisor, or similar authority in advance of a lab, due date, or exam will be accepted as a valid excuse for absence.

Extra Credit

The BIOL 1102 staff cannot give “extra-credit” under any circumstances. To do so would be unfair to other students who were not given the same opportunity.

Academic Misconduct

Academic misconduct will result in lowered grades, failure of the course, or other disciplinary actions. Please see the University policy on this topic at: <http://community.uconn.edu/academic-integrity-faculty-faq/>

Statement on Absences from Class Due to Religious Observances and Extra-Curricular Activities

The staff of BIOL 1102 will make reasonable accommodations in response to student requests to complete work missed by absence resulting from religious observances or participation in extra-curricular activities that enrich their experience, support their scholarly development, and benefit the university community. Examples include participation in scholarly presentations, performing arts, and intercollegiate sports, when the participation is at the request of, or coordinated by, a University official. Accommodations will be made in ways that do not dilute or preclude the requirements or learning outcomes for the course. **Students anticipating such a conflict should inform the BIOL 1102 staff in writing within the first three weeks of the semester**, prior to the anticipated absence, and students requesting accommodation should take the initiative to work out with the instructor a schedule for making up missed work. For conflicts with final examinations, students should contact the Office of the Dean of Students.

Policy Against Discrimination, Harassment and Related Interpersonal Violence

The University is committed to maintaining an environment free of discrimination or discriminatory harassment directed toward any person or group within its community – students, employees, or visitors. Academic and professional excellence can flourish only when each member of our community is assured an atmosphere of mutual respect. All members of the University community are responsible for the maintenance of an academic and work environment in which people are free to learn and work without fear of discrimination or discriminatory harassment. To that end, and in accordance with federal and state law, the University prohibits discrimination and discriminatory harassment, as well as inappropriate amorous relationships, and such behavior will be met with appropriate disciplinary action, up to and including dismissal from the University. Additionally, to protect the campus community, all non-confidential University employees (including faculty) are required to report sexual assaults, intimate partner violence, and/or stalking involving a student that they witness or are told about to the Office of Institutional Equity. The University takes all reports with the utmost seriousness. Please be aware that while the information you provide will remain private, it will not be confidential and will be shared with University officials who can help.

Other Policies

For other university policies, please consult: <http://provost.uconn.edu/syllabi-references/>