

EBIO 202: Introductory Biology II

Instructor: Scott E. Solomon, Ph.D.
Office: Anderson Biology Lab 135C
Office Hours: Tuesdays 9 AM - Noon
Email: ses4@rice.edu

Teaching Assistant: Christopher Roy
Office: Anderson Biology Lab 103F
Office Hours: Mondays and Thursdays 11 AM – Noon
Email: christopher.l.roy@rice.edu

Overview

This is the second in a series of two introductory biology courses (BIOC 201, EBIO 202). In EBIO 202 you will study the variety of life that makes up this planet; you will learn about various species, their classification, functions, how they came into existence, and their interactions with each other and their environments. You will learn how evolution is central to a complete understanding of modern biology, and will be introduced to the science of ecology and its various sub-disciplines including population ecology, community ecology, and ecosystem ecology. You will learn how a comparative approach offers insight into human anatomy and physiology. We will also touch on conservation biology and restorative ecology. Group discussions will allow students to explore these topics in more detail and discover how they are relevant to our everyday lives.

Text

Campbell & Reece *Biology* 8th ed., Pearson, San Francisco.

Lectures (MWF 10-10:50 am in Herzstein 212)

Lectures will cover material that overlaps with yet is complementary to the text. Students are expected to come to lecture with a working understanding of the assigned reading material. Unless told otherwise, students will be responsible for all material covered in lecture. Most lectures will include PowerPoint and/or video clips; lecture slides will be posted on Owl Space prior to each lecture, but will generally provide only an outline of the material and are therefore not a replacement for attending lecture (video clips will not be available online).

Quizzes (84 points)

Quizzes will be available online on Owl-Space in the evening prior to each lecture (with the exception of the first 3 lectures) and will consist of 3 multiple choice questions (worth 1 point per question) that cover material presented in the preceding class plus knowledge gained by assigned reading material for the upcoming class. Once you have begun a quiz you will have 20 minutes to complete it. ***All quizzes are open-book, open-notes, closed-internet and no other aid except book/notes.***

Exams (300 points)

There will be two 90-minute exams (100 points each) during the semester plus a 3-hour final exam (100 points). All exams are cumulative. Exams will be taken online via Owl-Space during the designated exam time only (note that these are in the evening). **Exams are closed-book, closed-notes, and closed-internet.** You may take the exam on any computer with internet access at a location of your choosing, but you may not receive any outside assistance (including from classmates or other students) while taking the exam. During exams, the instructor and TA will be available for questions via an online chat interface. No make-up exams will be offered.

Discussion sessions (84 points)

Students will be assigned to a discussion session that will meet during class time eight times over the course of the semester (see schedule below). Participation is expected for all in-class Discussion Sessions and is required for a passing grade. Grades for discussion sessions are broken down as follows: Preparation Forms (30 points), Participation (28 points), Oral Summary (2 points), Write-up (12 points), Presentation (12 points); more details on how discussion sessions are graded will be given by your group leader during the first discussion session.

Evaluation

Quizzes: 28 quizzes x 3 points each = 84 points

Exams: 3 exams x 100 points each = 300 points

Discussion Sessions: (see breakdown above) = 84 points

Total points possible = 468

The minimum point thresholds for each course letter grade are given below:

Letter Grade:	D-	D	D+	C-	C	C+	B-	B	B+	A-	A	A+
Minimum Points Needed:	279	293	316	326	340	363	372	387	410	419	433	457

Disabilities

Any student with a disability requiring accommodations in this class is encouraged to speak with Dr. Solomon within the first two weeks of class and also contact the Director of Disabled Student Services in the Ley Student Center.

Course Schedule

Day	Date	Topic	Quiz #	Pages in Campbell & Reece, 8th ed.
M	1/10	Course Intro; Why evolution matters		
W	1/12	History of Evolutionary Thought		452-459
F	1/14	Evidence for evolution		460-466
M	1/17	<i>MLK Day - No Class</i>		
W	1/19	<u>* In-Class Discussion Sessions 1 *</u>		
F	1/21	Microevolution	1	468-484
M	1/24	Macroevolution	2	487-504
W	1/26	Reconstructing evolutionary history	3	536-551
F	1/28	The Origin and History of Life	4	507-531; 656-658
M	1/31	Microbial diversity	5	551-553; 556-573
W	2/2	<u>* In-Class Discussion Sessions 2 *</u>		
F	2/4	Protists	6	575-597
M	2/7	Plants	7	600-615; 618-634
W	2/9	Fungi	8	636-652
F	2/11	Invertebrates I	9	654-655; 658-683; 692-694
M	2/14	Insects	10	684-691
W	2/16	Vertebrates I	11	695-710
F	2/18	Vertebrates II	12	710-725
M	2/21	Primates and Human Evolution	13	726-733
W	2/23	<u>* In-Class Discussion Sessions 3 *</u>		
Th	2/24	EXAM 1 (7:00 - 8:30 pm)		
F	2/25	Feeding and Digestion	14	852-896
M	2/28	<i>Spring Break - No Class</i>		
W	3/2	<i>Spring Break - No Class</i>		
F	3/4	<i>Spring Break - No Class</i>		
M	3/7	Circulation and Gas Exchange	15	898-927
W	3/9	<u>* In-Class Discussion Sessions 4 *</u>		
F	3/11	Immune System	16	930-951
M	3/14	Osmoregulation and Excretion	17	954-972
W	3/16	Endocrine System	18	975-994
F	3/18	Reproduction	19	997-1018
M	3/21	Nervous System	20	1047-1084
W	3/23	<u>* In-Class Discussion Sessions 5 *</u>		
F	3/25	<i>Spring Recess - No Class</i>		
M	3/28	Sensory Systems	21	1087-1117
W	3/30	<u>* In-Class Discussion Sessions 6 *</u>		

Th	3/31	EXAM 2 (7:00 - 8:30 pm)		
F	4/1	Animal Behavior	22	1120-1142
M	4/4	Ecology and the Biosphere	23	1148-1171
W	4/6	<u>* In-Class Discussion Sessions 7 *</u>		
F	4/8	Population Ecology	24	1174-1195
M	4/11	Community Ecology I	25	1198-1203
W	4/13	Community Ecology II	26	1204-1219
F	4/15	Ecosystems	27	1222-1242
M	4/18	Conservation Biology	28	1245-1265
W	4/20	<u>* In-Class Discussion Sessions 8 *</u>		
F	4/22	Review for final exam		

Final Exam: Date and time TBA