

## BILD 3 – Organismic and Evolutionary Biology Summer Session I 2017

\*\*Please note that the instructor reserves the right to modify any part of this syllabus\*\*

**Meeting Time:** 11:00am - 1:50pm MW

**Room:** Center Hall (CENTR) 212

**Midterm:** July 19, 11:00am, CENTR 212

**Final Exam:** August 4, 11:30am - 2:29pm, location TBA

**Instructor:** Dr. Heather Broccard-Bell

**e-mail:** hebell@ucsd.edu

**Office Hours:** Monday & Wednesday, 2:00pm - 3:00pm; by appointment

**Office:** Muir Biology 1165 (inner office in the lab)

**Head IA:** Linda Tong (e-mail: litong@ucsd.edu)

### Section Leaders

IA	E-MAIL	SECTION ID	SECTION TIME	SECTION ROOM
Jonathan Hanna	johanna@ucsd.edu	01	MW 3-3:50pm	CENTR 220
Vincent Ma	vxma@ucsd.edu	02	MW 4-4:50pm	CENTR 220
Linda Tong	litong@ucsd.edu	03	TuTh 9-9:50am	CENTR 218
Linda Tong	litong@ucsd.edu	04	TuTh 10:10:50am	CENTR 218

### Optional Textbook

Reece, J. B., Urry, L. A., Cain, M. L., Wasserman, S. A., Minorsky, P. V., & Jackson, R. B. (2014). *Campbell Biology* (10th ed.). Boston: Pearson.

\*\*Suggested supplementary reading for the history of life enthusiast (available for about \$10 on Amazon):

Dawkins, R. (2004). *The Ancestor's Tale: A Pilgrimage to the Dawn of Evolution*. New York: Houghton Mifflin.

### Learning Outcomes

1. Understand and apply the principles of evolution via natural selection to the major groups of life on earth.
2. Describe major evolutionary events and transitions in the history of life and how they affect the diversity, distribution, form, and function of Earth's biota.
3. Summarize the goals of the field of systematics and recognize how to formulate hypotheses of relationships based on inherited traits (morphology, physiology, biochemistry, DNA sequences, etc.).
4. Understand the importance and interconnectedness of the levels and systems of levels of life on this planet, including where we fit in
5. Understand the impact of human activity (both positive and negative) on the life on our interconnected planet
6. Marvel at the spectacular diversity of all the stuff that is alive!

## Triton Ed

We will be making use of Triton Ed throughout the semester. Lecture slides, **when there are any** (I often only use the board to teach), will be made available after the lecture. Be aware that the slides, on their own, will not be particularly useful for you if you have not attended the lectures. Grades will also be visible on Triton Ed.

## Assessments

Item	Approximate Date	Weight
Midterm	July 19	30
Section Attendance	NA	10
Section Quizzes / Activities	NA	20
Cumulative Final	August 4	40
BONUS Self-Guided Scripps Coastal Tour	UP TO YOU	2
<b>TOTAL</b>		100 + 2 BONUS

There will be one midterm exam, worth 30%, and one cumulative final exam, worth 40%. The remaining 30% will be obtained by attending **MANDATORY** sections (10%) and from quizzes and activities completed during sections (20%). You must attend the section in which you are enrolled, and all section assignments can only be completed and handed in at that time. You are only required to attend **8 out of 9** sections (i.e., you can miss 1 section without penalty). If you attend **all 9 sections**, you will be able to drop your lowest mark for the quizzes/activities.

Lecture attendance is not mandatory, but any topics covered during lecture or sections are fair game for all quizzes and exams. And although lectures will be podcast, be aware that **I write on the board a lot, which will not be captured by the podcast**. Do not expect to be able to do well if you do not attend lectures.

**There will be no exams outside of designated exam times.** Missed exams will result in a 0 grade. Exams missed for legitimate emergency reasons must be appropriately documented, and will result in the marks for the missed exam being commuted to the remaining evaluations.

**THERE WILL BE NO MAKE-UP ASSIGNMENTS OR EXTRA CREDIT.**

Grades will be assigned on a fixed basis as follows:

F	<60.00%
D	<70.00%
C-	≥70.00%
C	≥73.33%
C+	≥76.66%
B-	≥80.00%
B	≥83.33%
B+	≥86.66%
A-	≥90.00%
A	≥93.33%
A+	≥96.66%

## Policy on Cheating

Academic integrity underlies good science. As such, it is important that students adhere to the standards for academic integrity that have been set out by the University of California San Diego, and that dictate how scientific activities are carried out by the research community as a whole. Students that demonstrate academic dishonesty will be subject to penalties, including (but not limited to) reduction in his/her course mark, receiving a 0 on the assignment, and expulsion from the class. Serious offenses will be dealt with by the University of California San Diego Administration. Examples of academic dishonesty include (but are not limited to) the following.:

- **1) Plagiarism:** Copying someone else's work and handing it is as if it were your own. This includes copying your own previous work, copying/pasting from web pages, including Wikipedia, and paying someone to write a paper for you.
- **2) Unauthorized Collaboration on an Academic Exercise:** Receiving unauthorized help from another student or other source during an exam or on an assignment.
- **3) Providing False Excuses:** Lying about why one cannot take an exam or why an assignment is late and forging or altering a legal or medical excuse.

## Accommodations

Students requesting accommodations and services due to a disability for this course need to provide a current Authorization for Accommodation (AFA) letter issued by the Office for Students with Disabilities (OSD), prior to eligibility for requests. Receipt of AFAs in advance is necessary for appropriate planning for the provision of reasonable accommodations. For more information, contact the OSD at (858) 534-4382 (voice), [osd@ucsd.edu](mailto:osd@ucsd.edu), or [visitosd.ucsd.edu](http://visitosd.ucsd.edu).

## Diversity and Equity Statement

It is important for us to make sure that how we teach this course and how we accommodate different student needs reflects the differences of race, ability, sexual orientation, age, and gender identity that enrich our classroom experience and campus. If you have any concerns related to diversity and equity in the course, please contact the instructor.

## Course Outline

LECTURE*	TOPIC	TEXTBOOK
Lecture 1	Introduction; Origin and History of Life; Mechanisms of Natural Selection + Bacteria/Archea	pp. 461 - 470; Chapters 25 & 27
Lecture 2	Systematics; Evidence for Evolution + Single-celled Eukaryotes	pp. 471 - 479; Chapters 26 & 28
Lecture 3	Speciation/Macroeolution; Population Genetics + Land Plants	Chapters 23, 24, & 29
Lecture 4	Population Ecology/Community Ecology + Seed Plants	Chapters 53 & 30
Lecture 5	Ecosystem Ecology + Fungi	Chapters 55 & 31
Lecture 6	<b>MIDTERM</b>	
Lecture 7	Conservation Biology/Ecology + Metazoa	Chapters 56 & 32
Lecture 8	Behavioral Ecology + Invertebrates	Chapters 51 & 33
Lecture 9	Evo Devo + Vertebrates	pp. 457 - 458; pp. 538 - 540; Chapter 34
Lecture 10	Human Evolution	pp. 740 - 748

\*Schedule is approximate.

