

ORGANISMIC AND EVOLUTIONARY BIOLOGY BILD3 - **2012**  
 Summer Session 2 Dr. Keefe Reuther

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**COURSE SCHEDULE**

**MW 11:00am – 1:50pm Center Hall 113**

Date	Lecture Topic	Chapters in Campbell 9 <sup>th</sup> ed.
8/6	Introduction; Evolution: History & Evidence	22
8/8	Mechanisms of Evolution	23
8/13	Speciation & Phylogenetic Systematics	24, 26
8/15	History of Life; Prokaryotes & Protists	25, 27, 28
8/20	Plants & Fungi	29, 30, 31
8/22	<b>Midterm exam (11:00-11:50 am)</b> Animal Diversity I	32, 33, 34
8/27	Animal Diversity II; Intro to Ecology;	52
8/29	Population and Community Ecology I	53, 54
9/3	<b>Holiday – Labor Day – No Class</b>	
9/5	Population and Community Ecology II Ecosystem Ecology	53, 54, 55
9/7	<b>Final Exam 11:30am – 2:30pm; Location TBA</b>	

**SECTION SCHEDULE**

Week 1	NO SECTION THIS WEEK
Week 2	First Meeting = Quiz 1 Problem Set #1 Due Friday
Week 3	First Meeting = Quiz 2; review for midterm exam Problem Set #2 Due Friday
Week 4	First Meeting = Quiz 3 Problem Set #3 Due Friday
Week 5	First Meeting = Quiz 4 Conservation Essay Due Second Meeting; Problem Set #4 Due Friday

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**INSTRUCTOR**

Dr. Keefe Reuther,

Ecology, Behavior and Evolutionary Biology Section (EBE), Division of Biological Sciences

Office: HSS (Humanities and Social Sciences Building) 1145B

Office hours: Wednesday 8:30 – 10:30am or by appointment

Email address: apocrita@gmail.com (**please put BILD3 in the subject line**)

**VENUES**

MW 11:00am – 1:50pm Center Hall 113

**COURSE OBJECTIVES:** This course deals with the living world at the level of whole organisms, populations, communities, biomes, ecosystems and the biosphere. It is designed to introduce you to the fields of evolution, systematics, ecology, environmental science, behavior and conservation biology. The major focus of the course will be on evolution, since an understanding of the evolutionary process enables us to grasp why there are so many different kinds of living things, how they interact with each other to produce complex ecosystems, the ways in which these interactions may lead to the evolution of complex behaviors, how evolution has often brought about large changes in body plan, and how species (including ourselves) are likely to continue to evolve. Such knowledge is essential for understanding biology in general, and provides the tools for our stewardship of the planet's biota and the sustainability of the ecological services we take for granted.

**CONTACT:** Your TA's and fellow students are your best resource for information and you should first attempt to answer your questions through them. Try using the discussion board on TED or emailing your TA's through TED. Contact Dr. Reuther first only for specific issues unrelated to course content. The best way to contact him is by email: apocrita@gmail.com. On all emails PLEASE put BILD 3 in the subject line to indicate that the email pertains to this course. Also, if you email a question the evening before an exam please send it before 5 PM. If you email about anything regarding your status in the course, please include your UCSD username, and PID.

**PREREQUISITES:** Officially this course has no prerequisites; however, most students have already taken BILD 1. The course assumes that you know Mendelian genetics, mitosis and meiosis, and the basics of molecular biology — the transfer of genetic information from DNA to RNA and then to proteins. If you don't have a command of these topics, you will be at a disadvantage unless you do some extra reading in Units 1 and 3 of the text.

**TEXTBOOK:** *Campbell Biology*, 9th Edition, by Reece *et al.*, available at the Price Center Bookstore, bundled with *Mastering Biology*. You can also purchase the text as an ebook. Several copies are also on reserve in the Geisel library. If you choose to use an earlier edition (acceptable, but not recommended), it is your responsibility to check for changes in content. This is a great Biology textbook!

**REQUIRED RESOURCES:** *Mastering Biology*, a web-based resource, available from the textbook

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publisher (Pearson). Once you have logged onto the site, please register for the course webpage. **MAKE SURE TO BUY THE CORRECT TEXTBOOK VERSION FROM THE MASTERINGBIOLOGY WEBSITE.** The instructor is not responsible for errors due to incorrect products purchased from third party vendors.

Course ID: MBREUTHER86034

**LECTURE 'NOTES':** A pdf of figures and pictures from the lecture PowerPoints will be posted on TED (usually the evening before class)

**CLICKERS:** not used in this course.

**PODCASTING:** Class lectures are podcast and are available for download soon after lecture. Download podcasts at <http://podcast.ucsd.edu/>

**TECHNOLOGY POLICY:** The use of cell phones or any other electronic devices (e.g. pagers, text messaging, PDAs, etc.) is not permitted during exams. Cell phones or other communication devices must be turned off and stored before entering the lecture hall at all times. Use of a cell phone, PDA, or other similar electronic devices during an exam, quiz or assignment is grounds for receiving a failing grade.

Laptop computer policy: Students are welcome to bring laptops to lecture for note-taking purposes. However, if you choose to do so, please be aware that your lighted screen may be distracting to nearby students. For this reason, Dr. Reuther requests that you select a seat at the end of a row or toward the back of the lecture hall. Laptops must be put away (closed and powered off or on sleep mode) during any lecture quizzes, assignments or exams. Unless specifically given permission by Dr. Reuther, you may NOT access the web during the lectures. This is extremely distracting to neighboring students and will not be tolerated. Any student found using the web during class time will be required to turn off their computer for the remainder of the lecture and may be denied permission to use a computer in class thereafter.

**ENROLLMENT:**

**Auditing:** Auditing is discouraged and may only occur with permission of the instructor. The instructor is not obligated to devote time to the work of individuals not officially enrolled in the course. All persons auditing are required to abide by University policies and campus regulations.

**Wait list:** If you are on the wait list for this class you will be automatically added if space becomes available. The Division of Biology has a strict policy of 1<sup>st</sup>, on, 1<sup>st</sup> off the wait list, meaning that no student can jump ahead of others in the queue. If you have any concerns, please contact Biology Student Affairs at 858-534-0557, email [question@biology.ucsd.edu](mailto:question@biology.ucsd.edu), or contact the Summer Session Office, (858) 534-5258. If you are on the wait list, be sure to attend lectures and sign up for a section so that you do not fall behind.

**WEB SITE:** Everything related to the class is kept on the TED site (<https://ted.ucsd.edu/webapps/login/>). Access Ted from your iPhone, iPod Touch, iPad, Android, Palm OS and BlackBerry mobile device by searching your device's application store for "[Blackboard Mobile Learn](#)" to download. Access is only available for Wi-Fi, access is not available from your cellular network. **Announcements** of exam room changes and many other important matters will be posted on the TED site. Check the site often! There will also be

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an **online discussion board** on the site, moderated by the TA's. You can ask the TA's questions, and discuss interesting matters that come up in class. **Grades** for the midterm exam will all be posted on the website. TED is where all course related assignments and materials not available on the MasteringBiology website will be posted.

**GRADING:**

Discussion Quizzes (10 points each)	40 points
Midterm Exam	100 points
Final Exam	250 points
Problem Sets (25 points each)	100 points
<u>Conservation Essay</u>	<u>40 points</u>
TOTAL	530 points

**MIDTERM EXAM:** There will be one midterm, held during lecture time. **MAKE-UP EXAMS ARE NOT AVAILABLE. EXAMS ARE OFFERED AT THE SCHEDULED TIME ONLY.** Advise your coaches, teammates, traveling companions, significant others, and families accordingly. The exam will consist of multiple choice, short essay, short answer, and quantitative or graphical material designed to test your ability to synthesize information presented in the lectures and readings. The midterm exam will be based on material up to the lecture preceding the exam unless announced otherwise in class. **You must provide your own 100 question Scantron answer sheet!**

**FINAL EXAM:** The comprehensive 3-hour final exam is scheduled for **Friday September 7<sup>th</sup>, 11:30am – 2:30pm. EARLY EXAMS ARE NOT AVAILABLE.** Watch for the announcement in class and on the web site about the location. The final will be cumulative. Approximately 2/3 of the final will be on the material from the second half of the course, and 1/3 of the final will be from before the midterm. The exam will be in multiple-choice format and short answer. **You must provide your own 100 question Scantron answer sheet!**

**MISSED EXAMS:** There are no make-up exams, so unexcused absences from scheduled exams will be recorded as zeroes. Unusual and serious problems that affect your ability to take a scheduled exam (e.g., death or serious illness in the family or personal tragedy) must be communicated to Dr. Reuther directly. You will be required to provide official documentation of an unavoidable emergency (e.g., serious illness, etc.). Without such documentation, you will receive a zero for that exam. For a missed midterm exam with valid documentation, the remaining midterm and final exam will count for the entire test portion of your grade. For a missed final with valid documentation, you will be issued an incomplete grade, which can then be made up with the instructor after the end of the quarter.

**RE-GRADES:** It is your responsibility to check your exam for clerical errors in grading. If a grading error has been made, you should submit a re-grade request to Dr. Reuther at the end of a lecture within one week of return of the exam. The time and date of closing down the appeal process will be announced in class. Simply write "please re-grade Q #" or "arithmetic error on p. #" on the cover of your paper. Write a concise description of the alleged error on a separate, attached piece of paper. No re-grades are possible for exams written in pencil or non-permanent ink. Students who submit exams for re-grading understand that we may (1) re-grade the entire exam, and (2) compare the submitted paper to a scanned copy of the original exam. Re-grades of

the final will be handled as follows: Graded final exams will be available for pickup the Tuesday after the final is given. Re-grade requests are to be placed under Dr. Reuther's office door within one week after graded exams are made available. If the re-grade request is valid and it affects the letter grade of the student in the course, then Dr. Reuther will change your course grade accordingly.

**OSD students:** 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 (V); (858) 534-9709 (TTY); [osd@ucsd.edu](mailto:osd@ucsd.edu), or <http://osd.ucsd.edu>.

**CHEATING: DON'T.** Students are expected to do their own work, as outlined in the UCSD Policy on Integrity of Scholarship (go to TritonLink: Academics: Academic success: Academic integrity). Cheating will not be tolerated, and we will fail any student caught engaging in academic dishonesty. Their identity and the evidence of cheating will be passed to the relevant campus staff for further action. All exams will be closed book and closed-notes; all personal materials including cell phones must be stowed under your seat while exams are in progress. All assignments are to be completed individually, unless otherwise noted.

**COURSE IMPROVEMENT:** Your constructive criticisms are welcome. Dr. Reuther is available immediately after lectures, at his scheduled office hours, and by email anytime.

**SECTIONS AND SECTION MEETINGS:** Students have the opportunity to meet with a Teaching Assistant in relatively small groups on a weekly basis. There will be no sections during the first week of classes.

You must sign up for a Section after the first class meeting using <https://sections.ucsd.edu>. Instructions will be announced in class that day. There is a limit of 33 students for each section. Wait listed students should also sign up for sections now but there is no guarantee that they will eventually become enrolled in the class.

The section meetings provide for:

1. **Academic review.** Each week the TA will provide an opportunity to review the previous week's lectures and readings. This review may take the form of answering your specific and general questions, clarifying something important presented quickly in lectures, expanding on something important described in the textbook, or working through a numerical problem of the type found on the exams. To benefit from these meetings you must prepare by completing both your lecture notes and the assigned reading. There is no need to bring the textbook to the Section meeting.
2. **Advice on studying.** In particular, the TA's may be able to steer you through the enormous amount of descriptive material in the textbook. They will not know what will be on the exams but they are experienced enough to know how to set learning priorities. They meet with the professor before each class and can give you his advice on what's important and what is less likely to be a focus on exams.
3. **Graded quizzes.** During the first section meeting of the week there will be a quiz. The quiz will be given during the 1<sup>st</sup> 15-20 minutes of section (at the TA's discretion, depending on the

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length of their particular quiz). If you are late, you will have whatever time is remaining of the time allotted. If you are later than that, you will not be able to take the quiz. If you have issues getting to class on time, discuss them with your TA before it is a problem. You will have a quiz during your first discussion section.

4. **General course announcements.** We will make numerous announcements about the course and course-related opportunities.

5. **General advice.** The TA's are a lot easier to find than the professor so please direct your questions about other courses, majors, careers, summer opportunities, study abroad opportunities to them, in the first instance.

**Schedule of Section Meetings:**

Section #	Day	Time	Building	Room	TA
A01	TuTh	5:00p - 5:50p	CENTR	201	
A02	TuTh	6:00p - 6:50p	CENTR	201	
A03	TuTh	7:00p - 7:50p	CENTR	201	
A04	TuTh	8:00p - 8:50p	CENTR	201	
A05	TuTh	9:00p - 9:50p	CENTR	201	

**Be prepared to select your section time using [sections.ucsd.edu](http://sections.ucsd.edu) after the first class meeting.**

**Teaching Assistants:**

Name	email
Cardwell, Gavin	<a href="mailto:gcardwel@ucsd.edu">gcardwel@ucsd.edu</a>
Corbin, Kate	<a href="mailto:kcorbin@ucsd.edu">kcorbin@ucsd.edu</a>
Ngo, Davis	<a href="mailto:d8ngo@ucsd.edu">d8ngo@ucsd.edu</a>
Scholes, Hannah	<a href="mailto:hscholes@ucsd.edu">hscholes@ucsd.edu</a>
Seto, Natalie	<a href="mailto:nseto@ucsd.edu">nseto@ucsd.edu</a>

**Note: Syllabus and lecture schedule are subject to modification at the instructor's discretion.**