

COURSE SCHEDULE

MWF Peter 108: 3:00 - 3:50 pm

Week	Date	Lecture Topic	Campbell Chapter	Assignment Due
1	M 4/2 - F 4/6	Introduction; Chemistry of Life; Macromolecules	1-5	
2	M 4/9 - F 4/13	Cell Structure; Membranes	6-7	Problem Set #1 due
April 13th is the deadline to add the course				
3	M 4/16 - F 4/20	Metabolism; Cellular Respiration	8-9	Problem Set #2 due
4	M 4/23 - F 4/27	MIDTERM #1 - Monday ----- Cellular Respiration; Photosynthesis	9-10	
April 27th is the deadline to drop the course without a "W"				
5	M 4/30 - F 5/4	Cell Communication; The Cell Cycle	11-12	Problem Set #3 due
6	M 5/7 - F 5/11	Meiosis; Mendelian Genetics	13-14	Problem Set #4 due
7	M 5/14 - F 5/18	MIDTERM #2 - Monday ----- Inheritance	15	
8	M 5/21 - F 5/25	DNA Replication; Protein Synthesis	16-17	Problem Set #5 due
9	W 5/30 - F 6/1	Monday – Memorial Day Holiday ----- Gene Regulation; Viruses	18-19	Problem Set #6 due
June 1st is the deadline to drop the course and receive a "W"				
10	M 6/4 - F 6/8	Biotechnology; Genomes	20-21	Problem Set #7 due; Genetic Disorder Essay
Wednesday June 13 th 3:00pm – 6:00pm Location TBA				

Problem sets are due on Friday at 5p.m.

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 before lecture (1-2:30pm) or by appointment

Email address: apocrita@gmail.com (**please put BILD1 in the subject line**)

Office phone extension: 42460

VENUES

Lectures: MWF Peter 108: 3:00- 3:50 pm

COURSE OBJECTIVES: BILD1 is an introductory course on the molecular and cellular biology of microbes, plants and animals for Biology majors. The course focuses on structures and mechanisms of action required for smallest unit of life – the cell.

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 1 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.

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 publisher (Pearson). Once you have logged onto the site, please register for the course webpage. Course ID: MBREUTHER09474

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. 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:

Add/Drop and Withdrawal: The deadline to add the course is April 13th. If you drop the class, please do so AS SOON AS POSSIBLE, so that somebody can take your place. The deadline to drop this class and not receive a “W” is April 27th. The deadline to drop the course and receive a “W” is June 1st.

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 1st, on, 1st 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 or email question@biology.ucsd.edu. 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 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 exams 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	36 points
Midterm Exams (100 points each)	200 points
Final Exam	250 points
Problem Sets (15 points each)	90 points
Genetic Disorder Essay	40 points
Section Participation	<u>4 points</u>
TOTAL	620 points

SECTION PARTICIPATION: At the discretion of the TA, each student will be awarded 0-4 based upon overall participation, not just attendance, in discussion section.

MIDTERM EXAMS: There will be two midterms, 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 have a photo ID to turn in your exam and you must provide your own 100 question Scantron answer sheet!**

FINAL EXAM: The comprehensive 3-hour final exam is scheduled for **Wednesday June 13th, 3:00-6:00pm.** **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 1/3 of the final will be on the material from after the second midterm, and 2/3 of the final will be cumulative from material covered the entire quarter. **You must have a photo ID to turn in your exam and 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. Since course grades are due with the Division of Biology 72 hours after the final exam is given, 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, 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 section meetings there will be a quiz. The quiz will be given during the 1st 15-20 minutes of section (at the TA's discretion, depending on the 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
B01	M	08:00a - 08:50a	HSS	1305	Michelle Chung
B02	M	09:00a - 09:50a	HSS	1305	Quynh-Nhu Tran
B03	M	6:00p - 6:50p	CENTR	205	Lily Yang
B04	W	4:00p - 4:50p	HSS	1305	Breanna Trisko
B05	W	5:00p - 5:50p	HSS	1305	Mostafa Vakilian
B06	W	6:00p - 6:50p	HSS	1305	William Kim
B07	W	7:00p - 7:50p	HSS	1305	Catherine Kuo
B08	W	8:00p - 8:50p	HSS	1305	Helen Shang
B09	F	08:00a - 08:50a	HSS	1305	Meng Gao
B10	F	09:00a - 09:50a	HSS	2321	Phu Vo
B11	F	4:00p - 4:50p	CENTR	203	Henry Lu
B12	F	2:00p - 2:50p	HSS	2321	Samir Al-Sharrak
B13	M	7:00p - 7:50p	HSS	1315	Nathan Alcasid

Be prepared to select your section time using sections.ucsd.edu after the first class meeting.

Teaching Assistants:

Name	email
Kuo, Catherine	cakuo@ucsd.edu
Lu, Henry Jingyang	hjl@ucsd.edu
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Yang, Lily Tsenglee	ltyang@ucsd.edu
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Vo, Phu Luong Thi	p2vo@ucsd.edu

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

Assignment: Genetic Disorder Essay

Instructions:

- Write a paper no more than 5 pages, but no less than 2 pages, using the points listed below as your guide. The paper must be written in *essay style*. Just writing the answers to the required components, point by point, will not suffice.
- You will also be graded on the paper’s quality, in terms of comprehensibility, spelling and grammar, bibliography, and in-text citations. Follow the information on the following website (or other related website) for a guide to this.
<http://www.liu.edu/cwis/cwp/library/workshop/citapa.htm> There are specific formats for using book, website, and journal citations.
- This paper must be typed, double-spaced, and in your own words. (Don’t plagiarize.) 0.5” margins.
- Staple this page to the front of your paper before turning in.

Here are 2 comprehensive websites to get you started:

<http://ghr.nlm.nih.gov/ghr/conditionsByCategory>

<http://www.ncbi.nlm.nih.gov/books/bv.fcgi?call=bv.View..ShowTOC&rid=gnd.TOC&depth=10>

<i>Required components:</i>	Possible
1. Name of genetic disorder	1 point
2. Reasons why you chose this particular disorder. (Write a paragraph relating this to why this choice appealed personally to you.)	4 points
3. Description of the disorder – symptoms	8 points
4. How is it inherited (Example: autosomal recessive, autosomal dominant, sex linked, incomplete dominance, etc., or a chromosomal abnormality)?	4 points
5. On what chromosome is the disorder found?	2 points
6. What treatments are available?	5 points
7. Incidence (example: 1/40,000)	2 points
8. Is there a test for this disease? If so, what is it?	3 points
9. What future treatments, if any, are possible?	5 points
10. At least 5 resources in proper bibliographical form using MLA or APA style on a separate page at the end of the document. Resources not included in page minimum or maximum.	6 points

Required components subtotal

<i>Paper Quality</i>	<i>Amount deducted</i>	
Spelling	0-2 pt.	
Grammar	0-2 pt.	
Comprehensibility	0-2 pts.	
In-Text Citations	0-2 pts.	