BILD 1 The Cell Winter 2019

Dr. Kathy Byrne-Bailey
Tuesday/Thursday
12.30 pm-1.50 pm WLH 2005

Dr Kathy Byrne-Bailey
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Email: kbyrne@ucsd.edu (Please put BILD 1 in the subject line)
Office Hours: Tuesdays 2.00-3.00 pm, and Thursdays 11-12 pm, or by appt.
Questions? Please do not hesitate to contact me or your section leader.

COURSE DESCRIPTION:

BILD 1 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 IA's and fellow students are your best resource for information and you should first attempt to answer your questions through them. As a class you may want to use the Discussion Board on TritonEd, but please be respectful or I will close this resource. Try emailing your IA's through TED. Contact Dr. Byrne-Bailey first only for specific issues unrelated to course content. The best way to contact her is by email. 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.

TEXT:

Required Textbook: Campbell Biology 11th Edition by Urry *et al*., available at the Price Center Bookstore, can be bundled with Mastering Biology.

Instructor will follow more closely the latest 11th edition, but older editions may be used by students, little has changed from the 10th Edition but you may find more figures, text and content changes with the 9th. I highly recommend you use the textbook with lectures as a guide to content.

I reserve the right to assign alternative texts and up-to-date peer reviewed scientific literature that will aid your learning and critical thinking around this course. The syllabus for this course is on the TritonEd. You can access and download this syllabus and any other posted class materials, including lectures, notes, and class assignments.

iCLICKERS:

Required. The frequency in the classroom is "AB". You must register your clicker on TritonED during week 1. Beginning week 2, you will receive participation pts for each question answered and a further pt for a correct answer, a maximum of 8 pts per lecture. You may miss two lectures during the quarter and receive full participation credit. Forgotten remotes or dead batteries or any other similar issue will not be considered excuses for missed participation. It is the students' responsibility to make sure they have a working iClicker remote for all classes.

LECTURE:

Lectures will cover the central topics of the cell (usually) in the order indicated in the schedule, although the specific order can deviate a bit from that indicated, depending on time.

On the day before each lecture (at the latest), a copy of the lecture slides will be uploaded on the course website. It is highly recommended that you download and/or print out the lecture slides so that you can follow the lecture by taking notes on it. They comprise a skeletal record of what happens in the lecture. However, you may find the lecture slides unintelligible without your own written notes. Therefore, don't think of them as a second, independent "book" you can read but instead as a collaborative record of the lecture that you will create.

PODCASTING:

Class lectures are videocast and are available for download soon after lecture. Download videocasts at http://podcast.ucsd.edu/

TECHNOLOGY POLICY:

The use of cell phones or any other electronic devices (e.g. smart watches, 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 exams. Unless specifically given permission by Dr. Byrne-Bailey, 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.

WEBSITE:

Everything related to the class is kept on the TritonEd site (https://tritoned.ucsd.edu/webapps/login/). **Announcements** of exam room changes and many other important matters will be posted on the TritonEd site. Check the site often! **Grades** for the midterm exams will all be posted on the website.

GRADING:

The Table below shows a summary of the breakdown of your final grade.

Assignment	Percentage of Grade
Mid-term exams (2)	40
Final Exam	20
Sections/assignments	20
Online TritonED quizzes	10
iClicker quizzes	10

EXAMS: 60%: Two mid-term examinations and one final exam are scheduled for the quarter (see class schedule). **The final exam is cumulative and will NOT be held in class. The exams will assess your recall,**

comprehension, and analysis of the material of the topics as specified. Examinations may be composed of multiple choice and short answer type problems. If you miss an examination with a documented and pre-approved excuse, a make-up examination may be given at the discretion of the instructor. In general, no make-up examinations will be given. Students that do not take the examination on the scheduled date, without a pre-approved excuse will receive zero points for that examination. Early exams are not available. You must have a photo ID to turn in your exam.

Sections/Assignments 20 %: Attendance at the section you signed up for is required. Please do not attend another discussion section. Points will be up for grabs in your sections based on attendance, answering questions and your understanding, as well as asking questions. There will also be an activity most weeks, which will be discussed in your section, and you will turn in during that section. Please make them your own work, so no copy and paste or copy from each other, it will not help you on the exams!!!!!! They can and will be used as exam questions.

For assignment deadlines and activities check the TritonEd website.

On-Line Quizzes 10 %: There will be **10 quizzes** given online in TritonEd. They will open after class on the Thursday until 11 am before the next class. They will be short, I promise!!! They can include questions on anything covered in class or from the activity that week. No make-up quizzes will be given and if you miss a quiz it will not be opened up. The lowest 2 scores will be dropped. Dates for quizzes are provided in the course schedule and on TritonEd. QUIZZES will NOT be re-opened for ANY reason!

iClicker quizzes 10 %:
There will be questions in class (using iClickers) designed to help you learn the material we have just covered and to also help me pin point whether you have understood concepts in class so I can help you then and there, they also break up the lectures. The questions have been known to turn up on the exams. There will be 1 participation point per question and a further point for the correct answer; maximum 8 pts total a lecture.

NO EXTRA CREDIT WILL BE GIVEN.

GRADING SCALE

Your grade will be determined based upon the total points/percent's earned on examinations, quizzes, activities (check TritonEd for breakdown as you go along).

> (85%) A (A-, A or A+)
> (75%) B (B-, B or B+)
> (65%) C (C-, C or C+)
> (55%) D

If necessary, these cutoffs will be adjusted, but they will not be adjusted upward for any reason. There is NO rounding of grades. The ONLY recourse to receive a higher grade is to successfully submit a regrade request on an exam.

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. Byrne-Bailey 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 a few days after the final is given. Re-grade requests are to be placed under Dr. Byrne-Bailey'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. Byrne-Bailey 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.

All suspicions of integrity violation will be reported to the Academic Integrity Office according to university policy. Integrity violation is not just blatant cheating (e.g., copying off another student during an exam), but what you might have thought of as "minor cheating" in high school, for example: copying other students' papers or homework; copying or using old papers/report; working with others on individual assignments; forgetting to cite material you took from an outside resource; turning in work completed in total or part by another. The Policy on Integrity of Scholarship (academicintegrity.ucsd.edu) and this syllabus list some of the standards by which you are expected to complete your academic work, but your good ethical judgment (or asking me for advice) is also expected as we cannot list every behavior that is unethical or not in the spirit of academic integrity.

Those students found to have committed academic misconduct will face administrative sanctions imposed by their college Dean of Student Affairs and academic sanctions imposed by me. The standard administrative sanctions include: the creation of a disciplinary record (which will be checked by graduate and professional schools); disciplinary probation; and attendance at an Academic Integrity Seminar (at a cost of $75). Students can also face suspension and dismissal from the University; those sanctions are not at my discretion. Academic sanctions can range from an F on the assignment to an F in the class. The appropriate sanctions are determined by the egregiousness of the Policy violation. Students who assist in or are complicit with cheating could also be in violation of the Policy. Thus, students who become aware of their peers either facilitating academic misconduct or committing it should report their suspicions to me for investigation.

SECTIONS AND SECTION MEETINGS:

Students have the opportunity to meet with an Instructional Assistant in relatively small groups on a weekly basis. There will be no sections during the first week of classes. You must attend the section you registered for and there is no official switching of sections, since registration for each individual section is completely independent (i.e. you would need to drop the course and then register for the waitlist of another section.)

Section attendance is mandatory and will definitely help your success in the course.

The section meetings provide for:

1. **Academic review**. Each week the IA 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. 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. The IA'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 her advice on what's important and what is less likely to be a focus on exams.

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

4. General advice. The IA'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.

5. Review of online quizzes and exams.

6. Specific and separate activities, for credit, that must be completed in section.

Instructional Assistants:

Luay Naji	lnaji@ucsd.edu
Joy Chen	joc158@ucsd.edu
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Theo Schiff	tschiff@ucsd.edu
Ester Gherzi	egherzi@ucsd.edu
Michell Janossy	mjanossy@ucsd.edu

Day	Date	Topic	Reading*	Quiz	Section Assignment
Tue	01/08	Chemistry of Life/small molecules	2-5	1	No Discussion Sections
Th	01/10	Small molecules/Macromolecules	2-5		
Tue	01/15	Macromolecules/carbon compounds	2-5	2	Scientific Method Activity/Review
Th	01/17	Cell structure	6		
Tue	01/22	Membranes	6-7	3	Cells Activity/Review
Th	01/24	MIDTERM 1			
Tue	01/29	Metabolism	7/8	4	Metabolism Activity
Th	01/31	Respiration	8/9		
Tue	02/05	Respiration/photosynthesis	9/10	5	Metabolism Activity/Reading Figures and Graphs
Th	02/07	Photosynthesis	10		
Tue	02/12	Cell Communication	11/12	6	Cell cycle activity/Review
Th	02/14	Cell cycle	11/12/13		
Tue	02/19	MIDTERM 2		7	Review/Genetics Activity
Th	02/21	Mendelian Genetics	14		
Tue	02/26	The Molecular Basis of Inheritance	15/16	8	Peer Review Literature Activity
Th	02/28	Gene Expression	17		
Tue	03/05	Gene Regulation	18	9	Operons Activity/Life Activity
Th	03/07	Biotechnology	20		
Tue	03/12	Genomes	21	10	Quiz due on Thursday**** Reviews

Th	03/14	Review	
Tue	**03/19**	**COMPREHENSIVE FINAL EXAM**	**11.30 am – 2.29 pm Room TBA**

Section	Days	Time	Location	IA	Email
C01	Mon	9.00 -9.50 am	WLH 2110		
C02	Mon	11.00 -11.50 am	CENTR 220		
C03	Thurs	4.00 -4.50 pm	WLH 2110		
C04	Thurs	5.00 -5.50 pm	CENTR 218		
C05	Fri	12.00 -12.50 pm	HSS 2152		
C06	Fri	4.00 – 4.50 pm	WLH 2110		
C07	Fri	5.00 – 5.50 pm	HSS 2152		

COURSE SCHEDULE:

- **Readings**: Chapters from Campbell's Biology 11th Edition. Older editions are ok to use but please cross check continuity of content.

- **Section Assignments** will be completed in your section. You will gain attendance points by turning up and participating, this will always help your grade (the participating that is!).

- **Online Quizzes** will be opened on the Thursday after class and will close at 11am the following Tuesday, giving you time to prep for class and not do the quiz! Lowest 2 dropped (includes those missed with a zero). No quizzes will be reopened. All quiz questions and answers will be available to view after they close, if you complete them.

RESOURCES:

The following resources are provided to help you with your studies in general. They may also be useful for other classes.	
Harvard Biology Links	http://mcb.harvard.edu/BioLinks.html
Internet searching advice	http://www.library.vcu.edu/help/adv.html
Help in evaluating web resources	http://www.fno.org/jun97/eval.htm http://www.ithaca.edu/library/Training/hott.html
PUBMED - National Library of Medicine Resources	http://www.ncbi.nlm.nih.gov/entrez/query.fcgi
PUBMED Central	http://www.pubmedcentral.nih.gov/
Food & Drug Administration (FDA)	http://www.fda.gov
National Institutes of Health (NIH)	http://www.nih.gov/
NIH Health Information	http://health.nih.gov/

Todar's Online Textbook of Microbiology	http://www.textbookofbacteriology.net/
Center for Disease Control (CDC)	http://www.cdc.gov/
MicrobeWiki	http://microbewiki.kenyon.edu/index.php/MicrobeWiki
IFLS	http://www.iflscience.com/editors-blog/i-fucking-love-science-teams-science-channel-curate-best-science-content-web