COURSE SCHEDULE
TuTh 9:30a-10:50a GH 242

Week	Date	Lecture Topic	Assignment Due
0 and 1	9/22; 9/27	Introduction; DNA structure and Mutations	
2	10/4	Central Dogma and Gene Regulation	Quiz 1 due Tu @9am
3	10/11	Cancer and Biotech	Quiz 2 due Tu @9am
4	10/18	**MIDTERM #1 - Tuesday** Genomics and genetic engineering	Quiz 3 due Tu @9am
5	10/25	Mendelian Genetics; Pedigrees and Probability	Quiz 4 due Tu @9am
6	11/1	Modification of Mendelian Ratios; Sex determination and sex chromosomes	Quiz 5 due Tu @9am
7	11/8	**MIDTERM #2 - Tuesday** Sex determination and sex chromosomes cont.	Quiz 6 due Tu @9am
8	11/15	Chromosome Aberrations; Mapping Genes	Quiz 7 due Tu @9am
9	11/22	Quantitative traits and measuring heritability **Thursday = Thanksgiving Holiday**	Quiz 8 due Tu @9am
10	11/29	Population genetics and evolutionary genetics	Quiz 9 due Tu @9am
Final Exam 12/08/2016 Th 8:00a-10:59a Location TBA			

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SECTION SCHEDULE

Week	Date	Section Topic
0	F 9/25	NO SECTION
1	M 9/28 F 10/2	NO SECTION
2	M 10/5 F 10/9	The Scientific Method Activity (For Credit)
3	M 10/12 F 10/16	Midterm 1 Prep
4	M 10/19- F 10/23	Reading Figures and Graphs Activity (For Credit)
5	M 10/26- F 10/30	Peer Review Literature Activity (For Credit)
6	M 11/2 F 11/6	Midterm 2 Prep
7	M 11/9 F 11/13	Scientific Writing Activity (For Credit)
8	M 11/16- F 11/20	Genetics Paper Discussion Activity (For Credit)
9	M 11/23- W 11/25	**No Section!!!!!** **Friday – Thanksgiving Holiday**
10	M 11/30 F 12/4	Final Exam Prep

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INSTRUCTOR
Dr. Keefe Reuther,
Office: HSS (Humanities and Social Sciences Building) 1145D
Office hours: TuTh 1-2
Email address: kdreuther@ucsd.edu (please put BICD100 in the subject line)

VENUES
TuTh 9:30a-10:50a Galbraith Hall 242

PREREQUISITES: BILD1 is a required prerequisite for this course. You may find it beneficial to review relevant BILD1 material.

COURSE OBJECTIVES: An introduction to the principles of heredity emphasizing diploid organisms. Topics include Mendelian inheritance and deviations from classical Mendelian ratios, pedigree analysis, gene interactions, gene mutation, linkage and gene mapping, reverse genetics, population genetics, and quantitative genetics

CONTACT: Your IA's and fellow students are your best resource for information and you should first attempt to answer your questions through them. Contact Dr. Reuther first only for specific issues unrelated to course content. The best way to contact him is by email: kdreuther@ucsd.edu. On all emails PLEASE put BICD100 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: Our textbook is **Essentials of Genetics** by Klug, Cummings, Spencer, and Palladino, 8th edition. It is **OPTIONAL. PLEASE SEE THE SECTION ON THE TEXTBOOK AT THE END OF THE SYLLABUS!!!!!!!!!!!!!**

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

iCLICKERS: Required. The frequency in the classroom is "" You must register your clicker on TritonEd during week 1. Beginning Thursday, Week 1, you must answer at least 50% of the questions in a single lecture to receive participation points for that 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.

VIDEOCASTING: 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 is not

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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.

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:

Midterm Exams (100 points each)	200 points
Final Exam	250 points
Quizzes(15 points each; lowest score dropped)	120 points
Syllabus Quiz	5 points
Section Activities (10 points each) Lowest grade dropped	40 points
iClicker Participation Points (3 pts/class) 2 lowest grades dropped	42 points
TOTAL	657 points
80% of the class fills out a CAPE (EXTRA CREDIT)	5 points

These guidelines will be used to assign grades:
> (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 downward so that at least 50% of students in the class receive an A or a B, 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.

QUIZZES: Course assignments will be administered through TritonEd. Each quiz will be posted after class Thursday and should be completed by the following Tuesday before 9am. You will have 30 minutes to answer 20 multiple choice questions. The quiz will cover the lecture material from the previous week. **Your lowest quiz grade will be dropped.** The first quiz will be due Tuesday of week 2.

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

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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.**

FINAL EXAM: **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.**

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 one week 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 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.

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CHEATING: 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 any student caught engaging in academic dishonesty 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.

LETTERS OF RECOMMENDATION. I am more than happy to potentially write you a letter of recommendation for graduate school, medical school, UCSD program, etc. **HOWEVER**, keep in mind that you likely want me to write a good one. I typically teach 400-800 students per quarter; therefore, if I don't know you outside the lecture hall, I won't write you a letter of recommendation. All I can realistically do is list the grades you received on exams and assignments. If you would like me to write a letter of recommendation that goes beyond exam performance, you must give me the opportunity to meet you. Come to office hours (repeatedly) and utilize the Dine with a Prof program available through most campus colleges. Keep in mind this must all be done during the quarter in which you are my student.

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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.)

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, 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. Preparation for quizzes and exams.
3. Cover previous quizzes and exams.
4. Specific and separate activities, for credit, that must be completed in section.

Schedule of Section Meetings:

Section #	Day	Time	Building	Room	IA
A01	M	8:00a-8:50a	CENTR	218	Danielle
A02	M	5:00p-5:50p	CENTR	218	Jeremy
A03	M	6:00p-6:50p	CENTR	218	Jeremy
A04	M	7:00p-7:50p	CENTR	218	Laura
A05	M	8:00p-8:50p	CENTR	218	Siddhant
A06	Tu	8:00a-8:50a	CENTR	218	Vipula
A07	M	10:00a-10:50a	CENTR	217A	Tiffany
A08	Tu	5:00p-5:50p	CENTR	218	Sidarth
A09	Tu	6:00p-6:50p	CENTR	218	Ye
A10	Tu	7:00p-7:50p	CENTR	218	Diba
A11	Tu	8:00p-8:50p	CENTR	218	Yurong
A12	W	8:00a-8:50a	CENTR	218	Ye
A13	W	5:00p-5:50p	CENTR	218	Tiffany

Instructional Assistants:

Name	email
Gao, Ye	yeg002@ucsd.edu
Chen, Jeremy Chung-Huan	jcchen@ucsd.edu
Ho, Tiffany Wing Yin	twho@ucsd.edu
Ethiraj, Sidarth Vignesh	sethiraj@ucsd.edu

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Ambulkar, Siddhant Sachin	**sambulka@ucsd.edu**
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TIPS ON HOW TO DO WELL:

BICD 100 (like many other university courses) is complex enough to reward the student who gives some thought to how to take it. The most important trick is to keep up. The pace is unrelenting because BILD 3 must sometimes move rapidly, using 10 lectures to cover the fields of evolution, biodiversity, and ecology.

The following practices will help you best prepare for the exams:

1. Print out or download lecture slides before each lecture. DON'T DO THIS MORE THAN 48 HOURS BEFORE CLASS! I often make last minute changes to the PowerPoint to incorporate recent research.
2. Be present and take good notes during lectures (I will often use the board for explanation, which slows down the pace and allows you to take notes on the lecture slides).
3. Use the textbook and internet resources (see the Links Section of the course TritonEd page) as reference material to help you better understand lecture material. It's rarely beneficial to read a textbook like a novel from front to back. Use the index and table of contents to find material covered in class.
4. Attend discussion section and prepare well for them. Go through the previous week's material and come up with specific topics or questions for the IA to clarify.
5. Take all the material from lecture, the videocast, the textbook, and the PowerPoints and consolidate it in a fashion that makes sense. The key to understanding and remembering so much complex concepts and terminology is to ORGANIZE, ORGANIZE, ORGANIZE!
6. Assess yourself frequently and accurately! Just looking at flashcards is rarely enough. Try and teach a topic to a friend or draw out an important figure from memory.
7. When you study, keep a running list of questions and issues you are having with the material. Bring those questions to office hours or a study group.
8. It's better to study for short bursts often than in massive cramming sessions.

Watch these videos linked below for even more effective study tips:

https://www.youtube.com/watch?v=FyBdA61GmJ0

https://www.youtube.com/watch?v=p60rN9JEapg

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Since your grade will be decided entirely from your final score and not based on how you do compared to other students in the class, it will never hurt you to help fellow students. In fact, research on learning has shown that whether you are on top of the material or are having a hard time understanding the concepts, you will improve your learning by discussing the material with other students. Participation in study groups and in peer discussion of clicker questions is therefore, highly recommended.

IMPORTANT TEXTBOOK INFORMATION:

Steps to accessing RedShelf textbook on TritonEd:
- Within your course page on TritonEd, will see an option to select "RedShelf"
- Once you select RedShelf you will be taken to a screen where you can select a green button to "view course content"
- Once selected students have two options:
Option 1: Select the "start reading" button to read your eBook
Option 2: Select the "Opt out" option at the bottom of the screen to complete the steps to opting out of this program

How to opt-out:
- Select RedShelf within course
- Select "View course materials" button
- Scroll to the bottom and select "I want to opt out of access to all required materials for this course"
- Type "OPTOUT" within the field and click the light grey "Opt out of all required materials for this course"
**This feature is only available for the add/drop period. After the add/drop period if you don't opt-out we assume you are staying within the program. Any students who opt-out, we will communicate that to the Bookstore.

How to opt-back in:
- Select RedShelf within course
- Select "View course materials" button
- Select the "opt back in" button and students will gain full access back to the materials
**This feature is only available to students during the add/drop period. After the add/drop period if students don't opt back in we assume they are staying out of the program and they would have to purchase the materials on their own.

RedShelf features within your textbook:

- Linked Table of Contents and bookmarking
- In-text and marginal note taking
- Highlighting of text, graphs, and images
- Keyword search within text and notes
- Note and bookmark organizer

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- Pen tool
- Built-in dictionary
- Flashcard creation
- Personalized study guide
- Collaboration and note sharing

RedShelf Helpdesk: For any technical issues logging into your book or help with our eReader platform please contact us direct at: help@redshelf.com or 312.878.8586.

Textbook FAQ's:

How much does my text cost?

The price varies depending upon the course materials chosen by the instructor, but most Inclusive Access prices are lower than the cost to access the material direct through the publisher, and average 50% to 70% off the cost of the printed text.

How do I pay for my access?

The access is free for the first 10 days of the course. After 10 days, all enrolled students who have not opted out of the program or dropped the course will have the discounted price billed to their student account. No waiting in line with a heavy, expensive book!

What does it mean to opt-out?

If you do not wish to participate in Inclusive Access, you have the first 10 days of class to opt out of the program online (the opt-out procedure will be outlined in your emailed information). If you opt out by the deadline given, access to the online content will be turned off and you will not be billed.

I opted out by mistake and realized that I still need my access. Can I opt back in?

Yes. Simply email the Inclusive Access team at textbooks@ucsd.edu to request that your access be reinstated.

I did not opt out, but I did not register my access or use the online platform. Will I still be billed?

Yes. All students who are enrolled in a course using Inclusive Access are automatically considered part of the program. To avoid being billed you must opt out online during the first 10 days of class.

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I dropped the course. Do I still need to opt out?

Students who drop the course during the first 10 days of class will automatically be "opted out" and will not be billed. Students who drop after the tenth day will have five days to notify the Inclusive Access team at textbooks@ucsd.edu to request a refund.

I forgot to opt out and missed the deadline. Can I get a refund now?

Once billing has been completed, the only option for a retroactive refund is with documented withdrawal by the official last day to add/drop from the class. Please email the Inclusive Access team at textbooks@ucsd.edu with documentation of withdrawal (a printout or screen shot of confirmation of the drop) to request a refund. The last day to withdraw and be eligible for a refund is <changes by quarter>.

I am wait-listed for the course. Will I still have access to the digital course material and do I need to opt out if I don't get into the course?

All enrolled and wait-listed students have access to the content on day one of class. If you are dropped from the wait-list without getting in, you will automatically be opted out.

I already have access to the online platform from a previous course. Can I continue without paying twice?

If you are in a continuing series course (for example, if you took SPAN 101-02 and paid for access, and you are now taking SPAN 102-02 and your access is still good), you can log in with your original account and simply assign your new course ID to access the homework. If your current section does not require the homework, you can still use the platform's self-study tools and do not need a new course ID.

I added the class late. Do I still have 10 days before being billed?

If you added the class on the ninth day or later, the opt-out date still applies: you will need to opt-out by the deadline provided in the welcome email.

I didn't get an email about my course, but other students in my class did. Was I sent an email?

All enrolled and wait-listed students are emailed about the program. If it is not in a spam folder or was accidentally deleted, email the Inclusive Access team at textbooks@ucsd.edu for access instructions.

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I have further questions that were not addressed. Who do I contact?

If your question wasn't answered in this FAQ, please email textbooks@ucsd.edu for more information.

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