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BICD 100: GENETICS

Spring 2021 UC San Diego (Remote)

Overview of the Curriculum

Modern applications of Genetics are routinely visible, long after the rediscovery of the work of Gregor Mendel in the early 1900s. As with many topics in biology there are numerous concepts in Genetics, more than could fit into a single quarter. We have chosen a select set of basic concepts that we think are relevant for inclusion in a broad survey course.

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Scheduling

This course page serves two lecture sections of BICD 100 in the schedule of classes:

- I00, J00, K00: MWF 8:00 am - 8:50 am
- L00, M00, N00: MWF 9:00 am - 9:50 am

To best serve students around the world in both sections, we have chosen to adopt the following provisions:

- All lecture content will be made available asynchronously on a weekly basis to enable access whenever, wherever you can.
- Every Friday* will have a live session with directed Check-In/Practice with Dr. Miller at the times listed above over Zoom LTI PRO. Please attend only the lecture session in which you are enrolled.

All synchronous and asynchronous content in this course will be recorded and made available for asynchronous viewing.

In addition to the lecture content, students are advised to attend synchronous Discussion Sections for additional discussion, practice, collaboration, and review. **Each session will meet over Zoom LTI PRO** and be recorded and posted.

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Discussion Sections

Section ID	Time	IA
I01, J01, K01	Monday 11 am	Kristopher Chen
I02, J02, K02	Monday 4 pm	**DS time removed, check email if enrolled for alternate time**
I03, J03, K03	Tuesday 8 am	**DS time removed, check email if enrolled for alternate time**
I04, J04, K04	Tuesday 9 am	Jasmine Le
I05, J05, K05	Tuesday 10 am	Claire Chen
L01, M01, N01	Monday 2 pm	Jeffrey Keller
L02, M02, N02	Monday 3 pm	Brianna Dzyuba
L03, M03, N03	Monday 5 pm	Ziyi Wang
L04, M04, N04	Wednesday 4 pm	Abby Lee
L05, M05, N05	Friday 2 pm	Jianing Wang

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Instructors

Lecture

Steven Miller, Ph.D.

- Email: swmiller@ucsd.edu or use the Inbox function in Canvas
- Twitter: [@NaturallySteve \(Links to an external site.\)](#)
- Office Hours: Mondays 4pm - 5pm; Fridays 10am - 11am. See links in Zoom LTI PRO. Dates/Times may change after Week 1.

Instructional Assistants

Name	Contact	Office Hours Time
Wang, Jianing	jiw449@ucsd.edu	
Lee, Abby Chelsea	acl008@ucsd.edu	
Dzyuba, Brianna Erica	bdzyuba@ucsd.edu	
Wang, Ziyi	ziw006@ucsd.edu	
Le, Jasmine Thien-Thu Thi	jtl080@ucsd.edu	
Keller, Jeffrey Brian	jkeller@ucsd.edu	
Chen, Claire	hoc011@ucsd.edu	
Chen, Kristopher	krchen@ucsd.edu	

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Textbook and Other Materials

One textbook is recommended for this course:

Klug et al. Essentials of Genetics, but any general genetics text, even older editions, will be OK as no specific readings will be assigned. You can refer also to additional [online resources](#) posted to Canvas.

Practice Problems:

Practice is critical for this course! A set of general [practice problems](#) have been made available on Canvas for you to use. Due to variability quarter to quarter they may not all be 100% match to the content this quarter. Answers to practice problems will be made available before the midterms and final, but it is critical that you attempt them on your own before checking your answers. Furthermore, any textbook can be a source of additional practice problems for you to use.

Online Quizzes:

A set of nine multiple choice quizzes will be made available after each major lecture unit. Each will be worth 3 points. To encourage the practice and repetition required for conceptual understanding, each quiz can be taken multiple times. Only the highest score will be recorded.

Discussion Sections:

Discussion section activities will include clarifying and reviewing concepts, getting practice with Genetics problems with peer and IA feedback, going over approaches to problems, and reviewing homework problems to help with learning and exam preparation. Since students who regularly attend and participate in Discussion section often perform better in the course, you are expected to attend section for a portion of the course grade. Discussion attendance is worth 2% of the course grade. To earn full points, attend at least 75% of sections. If missing one week drops you below the 75% threshold, the week can be made up through a Discussion Board post (see instructions from Dr. Miller)

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Grading Scale

We will not be grading on a curve, which means that your performance is in no way be negatively affected by the performance of your peers. When everyone earns an A, everyone gets an A!

Grades will be assigned as follows:

90%: A (A-, A, A+)

78%: B (B-, B, B+)

65%: C (C-, C, C+)

55%: D

Grade Composition

Component	Date	Time	Description	Weight
Midterm Exam 1	21 April	During your scheduled lecture time. (Either 8 am or 9 am)	Week 1 and Week 2 content	10% of grade
Midterm Exam 2	12 May	During your scheduled lecture time. (Either 8 am or 9 am)	Content from Weeks 3-6	15% of grade

Final Exam	8 am section: • 11 June 9 am section: • 9 June	8 am sections: • 8:00 am - 11:00 am 9 am sections: • 8:00 am - 11:00 am	Comprehensive	25% of grade
Homework Assignments	HW1: 12 April HW2: 3 May HW3: 17 May HW4: 2 June	Homework must be submitted to Gradescope by 11:59 pm PST on the due date	• 15 points each • Lowest score is dropped	24% of grade
Online Quizzes	After each lecture unit	Quizzes must be completed on Canvas by 11:59 pm PST on the due date	• 9 total • 3 points each	13% of grade
Genetics in the News	Pt1: 26 April Pt2: 24 May	GITN must be submitted to Gradescope by 11:59 pm PST on the due date	• 2 parts • Online Assignment and Discussion	10% of grade
Discussion Section Attendance	Each week at assigned time		Attend >75% for full points. 1 below 75% can be made up	2% of grade
Scheduling and About You Survey	2 April	11:59 pm	Necessary to distribute students proportional to IAs	1% of grade

Homework Problems:

Four homework assignments, worth 15 points each, will provide low-stakes practice on lecture content.

- You are encouraged to work together in study groups to complete the homework problems, but your submission must be your own work.
 - If you do work in groups, each person should attempt the homework on their own beforehand.
 - Avoid accepting the answer someone else provides without debate!
 - You will be asked to include the list of collaborators on each homework assignment, if applicable.
- The lowest homework score will be dropped.
- Submitting an answer to a question from an assignment version from a previous quarter will result in a 0 awarded for the entire assignment.
- If you earn lower than 9/15 on Homework problem set, you can earn points back, up to a maximum of 10/15, by meeting with your IA or instructor to review and help you work through the assignment.
- Homework assignments are to be uploaded as PDF files to Gradescope for grading.

Because the lowest score will be dropped, homework assignments submitted after the due date will receive 0 points.

Exam Format:

Each exam will have both multiple choice questions and short answer questions. Exams will be open book, but must be taken during the class period. Accommodations can be made for students in far off time zones. You will be required to upload the PDF of the completed exam answer sheet to Gradescope for grading.

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Academic Integrity

<https://students.ucsd.edu/academics/academic-integrity/index.html>

Integrity of scholarship is essential for an academic community. The University expects that both faculty and students will honor this principle and in so doing protect the validity of University intellectual work. For students, this means that all academic work

will be done by the individual(s) to whom it is assigned, without unauthorized aid of any kind. Anyone caught cheating (includes plagiarizing lab reports, copying homework answers, cheating on a test, or changing an answer for a re-grade) will be reported to the Academic Integrity Office.

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Inclusion and Accessibility

<http://disabilities.ucsd.edu>

Any student with a disability is welcome to contact us early in the quarter to work out reasonable accommodations to support your success in this course. Students requesting accommodations for this course due to a disability must provide a current Authorization for Accommodation (AFA) letter issued by the Office for Students with Disabilities (OSD), which is located in University Center 202 behind Center Hall. Students are required to present their AFA letters to faculty and to the OSD Liaison in the Division of Biological Sciences in advance so that accommodations may be arranged. For further information, contact the OSD at 858-534-4382 or osd@ucsd.edu

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