BICD 100: GENETICS

Fall 2020 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:

- F00, G00, H00: MWF 10:00 am - 10:50 am
- L00, M00, N00: MWF 2:00 pm - 2:50 pm

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.
    - **Exception: no live Zoom LTI PRO session will take place on Friday November 27th due to the Thanksgiving Holiday*

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, but we request that you attend only the session in which you are enrolled.

- *Discussion Sections will not begin until the week of Monday October 5th.*

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Discussion Sections

Section ID	Time	IA
F01, G01, H01	Monday 12:00p	Tony Cheng
F02, G02, H02	Monday 1:00p	Tony Cheng
F03, G03, H03	Wednesday 12:00p	Fan Xu
F04, G04, H04	Friday 1:00p	Brendan Lee
F05, G05, H05	Friday 12:00p	Michelle Liu
L01, M01, N01	Monday 6:00p	Jasmine Le
L02, M02, N02	Monday 7:00p	Jasmine Le
L03, M03, N03	Friday 4:00p	Sarina Safavi
L04, M04, N04	Wednesday 6:00p	Hayden Guss
L05, M05, N05	Wednesday 7:00p	Jeffrey Keller

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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: Monday 3:00p - 4:00p; Friday 11:00p - 12:00p. See links in Zoom LTI PRO.

Discussion Sections

Name	Contact	Office Hours Time
Cheng, Pin-Chung	picheng@ucsd.edu	Monday 2 pm
Lee, Brendan Laap-Yan	bll015@ucsd.edu	Friday 2 pm
Liu, Michelle	m2liu@ucsd.edu	Tuesday 4 pm
Xu, Fan	faxu@ucsd.edu	Wednesday 4pm
Le, Jasmine Thien-Thu Thi	jtl080@ucsd.edu	Thursday 4pm
Guss, Hayden Walter	hguss@ucsd.edu	Monday 11 am
Keller, Jeffrey Brian	jkeller@ucsd.edu	Monday 5 pm
Safavi, Sarina	sasafavi@ucsd.edu	Wednesday 4pm

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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 midterm 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 eight multiple choice quizzes will be made available after each major lecture unit. Each will be worth 3 points as follows: 1pt for completion, an additional 2pts for earning 75% or higher.

Discussion Sections:

Discussion activities will complement the lecture material as well as allowing you to review the more challenging material. You must attend the discussion section that you signed up for when selecting the class. Attendance and Participation in 75% Discussion Sections is eligible for up to 2% bonus on your final grade.

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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 and 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	Weigh
Midterm Exam	9 November	During your scheduled lecture time. (Either 10 am or 2 pm)	Content up through October 30th (tentative)	20% o
Final Exam	10 am section: • 18 December 2 pm section: • 16 December	10 am sections: • 8:00 am - 11:00 am 2 pm sections: • 3:00 pm - 6:00 pm	Comprehensive	30% o
Homework Assignments	HW1: 26 October HW2: 13 November HW3: 23 November HW4: 7 December	Homework must be submitted to Gradescope by 11:59 pm PST on the due date	• 15 points each • Lowest score is dropped	25% o
Online Quizzes	After each lecture unit	Quizzes must be completed on Canvas by 11:59 pm PST on the due date	• 8 total • 3 points each	10% o
Genetics in the News	Pt1: 12 October Pt2: 16 November	GITN must be submitted to Gradescope by 11:59 pm PST on the due date	• 2 parts • Online Assignment and Discussion	15% o

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.
- 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