## Overview of the Curriculum (PDF Version)

The science of genetics, launched with the rediscovery of Mendel's Laws in 1900, is very much in the news. Within the subject of Genetics there are more areas than can be covered in a semester. We've picked out many of the basic concepts that we think are important in a broad introductory survey course.

### Scheduling and Enrollment

BICD100 (A00) will meet at 11:00 AM - 12:20 PM on MTuWTh as a Zoom meeting (See ZOOM LTI Pro for links to meetings). On Mondays, except for the first class on Aug 3rd, a prerecorded mini-lectures will be available. Associated 50 min discussions sections are listed by section below. They will also meet via Zoom. It is very important that you attend the section for which you are registered.

| Section | Time | IA | Meeting ID |
|---|---|---|---|
| A01 | TuTh 2pm | Adam Kirby | See canvas "Zoom LTI PRO" |
| A02 | TuTh 3pm | Adam Kirby | See canvas "Zoom LTI PRO" |
| A03 | TuTh 4pm | Jeffrey Keller | See canvas "Zoom LTI PRO" |
| A04 | TuTh 1pm | Mona Roshan | See canvas "Zoom LTI PRO" |

### Canvas Learning Management System

We will be using Canvas to deliver our course materials over the Internet. You will be able to use this course site to download copies of course materials and view your grades.

### Staff Directory and Office Hours

**Lecturer**

Chris Day cdday@ucsd.edu

Office hours: **Wed 2pm** Meeting ID: See canvas "Zoom LTI PRO"

**IAs**

| IA | e-mail | Office Hours | Meeting ID (confirm on Zoom LTI PRO calendar) |
|---|---|---|---|
| **Adam Kirby** | **ajkirby@ucsd.edu** | **TBA** | **TBA** |
| **Jeffrey Keller** | **jkeller@ucsd.edu** | **TBA** | **TBA** |
| **Mona Roshan** | **mroshan@ucsd.edu** | **TBA** | **TBA** |

**Grade Scale:**

We do not curve. Consequently, you are not in competition with anyone for a grade.

**Grades** will be based on your percentage in the course:

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

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

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

55% D

## Text and other materials for self-guided study

**One textbook is recommended for the 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. Further, online resources have been posted on Canvas. See Course Strategies for more information on how to make the most of the any text book, or online resources, that you plan to use.

**Practice Problems:**

You will have access to old problem sets and exams that I have written in the past, these will be posted in the modules section. Answers will be posted before each exam, BUT it is important that you attempt the questions before reviewing the answers. In addition, there are many good questions in text books that are helpful towards mastering our learning objectives.

**Online quizzes:**

A total of three points are available for each multi-choice quiz. 1pt for completing the quiz and 2pt for getting above 75%. There will be eight quizzes.

The quizzes and practice problem sets are primarily for you to get practice with concepts as we progress through the learning objectives. For quiz questions that appear to be stumping the whole class, I will review those concepts in class, or you can work on the material during discussion.

**Grades: Exams, Assignments and Participation**

Your grade for BICD100 will be based on your performance on assignments and two exams. The assignments will give you opportunities to work with the material and to practice the kinds of problem-solving skills you will need for the exams. Each of the exams will cover material from the lectures listed below.

| Course Component | Date | Time | Description | Weight % |
|---|---|---|---|---|
| Mid-term | Wed Aug 19 | 11am-12:20pm | Material covered up to Aug 14th | 20 |
| Final Exam | Fri Sept 4 | 11:30 am - 2:30 pm | Comprehensive | 30 |
| Homework | Fri Aug 10<br>Fri Aug 17<br>Fri Aug 24<br>Fri Aug 31 | Take home | Lowest grade of the four can be dropped. 15 pt assigned to each problem set. | 25 |
| Online quizzes | Ad Hoc, after each unit. | Canvas Quizzes | 8 online quizzes | 10 |
| Genetics in the News | Aug 7<br>Aug 21 | Take home | Online assignment and Discussion | 15 |
| | | | Total | 100 |

**Exam format:**

Each exam will have both multi-choice questions and short answer questions. Exams will be open book. We will use gradescope, you should be able to uploaded a pdf file with your answers in the correct format. See the midterm and final exam instructions for more detail.

**Homework Problems:**

The four take-home problem sets count for about 25% of your course grade. Note that the lowest score will be dropped.

**All late problem sets will be assigned a zero grade.**

We encourage you to work together in study groups to discuss the questions, this could help you better understand the material.

If you do choose to work in groups, try not to make the mistake of simply accepting another student's answer and thinking you understand it. You need to attempt the problem set prior to meeting. You will always have a better understanding if you have gone through the problem-solving process.

Please list the names of your collaborators on your assignment. Each student must write her/his own answers, in his/her own words, after working with the group.

**Discussion:**

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.

**Zoom cast**

Zoom lectures will be recorded and available in the Media Gallery tab in canvas. They will also be embedded into the bottom of the weekly pages.

## Course Administration

Dr. Day is the first person to contact for all questions of course enrollment, section changes, grade records, signing up for early make-up exams (allowed only exceptional reasons), and any special needs.

**Discussion Board**

This forum can be used to ask questions relating to the genetic material we cover, or general questions. Dr Day and the IA's will try and review the new questions at least once a day.

Do feel free to answer each others questions. Answering each others questions is a really good way to solidify your knowledge.

**Special Needs and Religious Holidays:**

Please let Dr. Day know as soon as possible if you have any special needs that we should accommodate or a religious holiday that will conflict with a course activity.

**Students' Questions and Feedback:**

The staff of this course, lecturer and IAs alike, welcome your questions, suggestions, and comments. We want to get to know you, and we appreciate your feedback.

**Board of Directors:**

In addition, we would like to have volunteers from the class to serve as class representatives and meet once a week with Dr Day. This is valuable for us since it allows you, the students, to make constructive suggestions, especially if there are logistical problems or other concerns. Given the online nature of this course, we imagine that a lot of problems will arise.

In short, student concerns can be aired in a way such that real changes can be made. In our experience this open communication helps teaching staff and students alike.

If you are interested, email Dr. Day (cdday@ucsd.edu) with the following title 'BOD'. We will meet after class on Wednesdays for no more than 30 minutes.

**Academic integrity** (https://students.ucsd.edu/academics/academic-integrity/index.htmlLinks to an external site.)

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, cheating on a test, or changing an answer for a re-grade) will be reported to the Academic Integrity Office.

**Inclusion and accessibility** (http://disabilities.ucsd.eduLinks to an external site.)

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