Section D00

General information

Course description	This course will explore structure, function, regulation, and transmission of genetic material to connect genotype with phenotype in cells, organisms, and populations. We will also discuss fundamental concepts of genetics in the context of development, health, and technology.		
Time & location	Lectures: Tuesday & Thursday, 3:30 PM Tata Hall 3201 (Kavli) Podcasts via Canvas Discussion section (D01): Friday 9:00 AM - 9:50 AM Remote	- 4:50 PM	
Professor	Vu Q. Nguyen, Ph.D Office hour: Monday 10 AM – 11 AM or by appointment Bonner 3206/Zoom		
Assistants	Kendrick Nguyen - TA Office hour: Wednesday 3:30 PM – 4:30 PM Bonner 3206/Zoom Donald Le - UIA Office hour: Wednesday 12:00 PM – 1:00 P Bonner 3206/Zoom Ryan Wittenberg - UIA Office hour: Tuesday 11:00 AM – 12:00 PM Bonner 3206/Zoom	dol030@ucsd.edu M rwittenberg@ucsd.edu	
BioConnect tutors	Eric Thai Keilyn Durante	<u>K3thai@ucsd.edu</u> <u>kduartelemus@ucsd.edu</u>	

Course format

Course materials	<u>Textbook</u> : Genetics: from Genes to Genomes , Goldberg & Fischer, 8 th Edition. Register through Canvas for access to eBook and Connect platform for \$50. Registration instructions will be provided on first day of class. <u>iClicker</u> : physical or mobile app.				
Communication	You are highly encouraged to use <u>Piazza</u> on Canvas for general course- and science-related questions. Instructors will monitor forums regularly and strive to answer within 24 hours excluding weekends.				
Assessment	 Reading: weekly SmartBook (SB) assignments via Connect; lowest (2) scores will be dropped. Problem sets: weekly assignments via Connect; select questions will be addressed in lecture and section; lowest (2) scores will be dropped. Lecture attendance: assessed weekly via iClicker activity; lowest (2) scores will be dropped. Exams: (3) midterms covering specific sections of lecture material + (1) cumulative final; lowest score among 4 will be dropped. 				
Grading	Item	Points	100% points		
	Reading	3 (x10)	3 (x8) = 24		
	Problem set	5 (x10)	5 (x8) = 40		
	Attendance	2 (x10)	2 (x8) = 16		
	Midterm# 1	40	40 (x3) = 120		
	Midterm# 2	40			
	Final (Midterm# 3 + cumulative)	40 + 40			
	Total		200		
Grading scale	Letter	% Range	Point cutoff		
	A+	100 - 97	194		
	A	96 - 93	186		
	A-	92 - 90	180		
	B+	89 - 87	174		
	В	86 - 83	166		
	B-	82 - 80	160		
	C+	79 - 77	154		
	С	76 - 73	146		
	C-	72 - 70	140		
	D	69 - 60	120		
	F	Below 60	Below 120		

Tentative schedule

Week	Date	Topic	Assignment	Due date		
1	April 2	Conos & gonomos	SmartBook Problem set	April 8, 5:00 PM		
	April 4	Genes & genomes				
2	April 9	Gene expression & regulation	SmartBook Problem set	April 15, 5:00 PM		
	April 11	Gene expression & regulation				
3	April 16	Genome integrity	SmartBook Problem set	April 22, 5:00 PM		
	April 18	Genome integrity				
	April 23	MIDTERM# 1 (covers Weeks 1-3)	SmartBook	April 29, 5:00 PM		
4	April 25	Genome replication & transmission	Problem set			
	April 26	Last day to drop without "W"				
5	April 30	Linkage, recombination, and gene mapping	SmartBook Problem set	May 6, 5:00 PM		
	May 2	Sex chromosomes	Froblem Set			
6	May 7	Chromosomal aberrations	SmartBook	May 13, 5:00 PM		
	May 9	Developmental genetics	Problem set			
	May 10	Last day to drop with "W"				
7	May 14	The genetics of cancer	SmartBook	May 20, 5:00 PM		
	May 16	Tools of genetics	Problem set			
8	May 21	MIDTERM# 2 (covers 4/25 - 5/14 lectures)	SmartBook	May 27, 5:00 PM		
	May 23	Mendelian genetics	Problem set			
9	May 28	Extensions to Mendel's laws	SmartBook	June 3, 5:00 PM		
	May 30	Quantitative genetics	Problem set			
10	June 4	Population & evolutionary genetics	SmartBook	June 7, 5:00 PM		
	June 6	Course review	Problem set			
	June 10 3:00 PM - 5:59 PM	00 PM - MIDTERM# 3 (covers 5/16 - 6/4 lectures) - 50%				

Campus Health

Keeping our campus healthy takes all of us. You are expected to follow the <u>campus</u> <u>safety requirements</u> and pursue personal protection practices to protect yourself and the others around you.

Campus Policies

- UC San Diego Principles of Community
- UC San Diego Policy on Integrity of Scholarship
- Religious Accommodation
- Nondiscrimination and Harassment
- UC San Diego Student Conduct Code

Diversity and equity statement

It is important to me to make sure that how I teach this course and how we accommodate different student needs reflects the differences of race, ability, sexual orientation, age, and gender identity that enrich our classroom experience and campus. If you have any concerns related to diversity and equity in the course, please contact me.

If you find yourself in an uncomfortable situation, ask for help. The university is committed to upholding policies regarding nondiscrimination, sexual violence, and sexual harassment.

Resources for Support and Learning

Learning and Academic Support

Ask a Librarian: Library Support

Chat or make an appointment with a librarian to focus on your research needs

Course Reserves, Connecting from Off-Campus and Research Support

Find supplemental course materials

First Gen Student Success Coaching Program

Peer mentor program that provides students with information, resources, and support in meeting their goals

Office of Academic Support & Instructional Services (OASIS)

Intellectual and personal development support

Writing Hub Services in the Teaching + Learning Commons

One-on-one online writing tutoring and workshops on key writing topics

Supplemental Instruction

Peer-assisted study sessions through the Academic Achievement Hub to improve success in historically challenging courses

Tutoring - Content

Drop-in and online tutoring through the Academic Achievement Hub

Tutoring – Learning Strategies

Address learning challenges with a metacognitive approach

Support for Well-being and Inclusion

Basic Needs at UCSD

Any student who has difficulty accessing sufficient food to eat every day, or who lacks a safe and stable place to live is encouraged to contact: foodpantry@.ucsd.edu | basicneeds@ucsd.edu | (858) 246-2632

Counseling and Psychological Services

Confidential counseling and consultations for psychiatric service and mental health programming

Community and Resource Centers

Office of Equity, Diversity, and Inclusion

As part of the Office of Equity, Diversity, and Inclusion the campus community centers provide programs and resources for students and contribute toward the evolution of a socially just campus

(858).822-.3542 | diversity@ucsd.edu

Get Involved

Student organizations, clubs, service opportunities, and many other ways to connect with others on campus

Triton Concern Line

Report students of concern: (858) 246-1111

Office for Students with Disabilities (OSD)

Supports students with disabilities and accessibility across campus

Undocumented Student Services

Programs and services are designed to help students overcome obstacles that arise from their immigration status and support them through personal and academic excellence