

BICD 110 Spring 2011 Syllabus

Time: Monday, Wednesday, Friday
11:00am – 11:50am

Location: Warren Lecture Hall 2001

Instructor: Pavan Kadandale
HSS 1145B
pkadanda@ucsd.edu
[please make sure that all emails contain “BICD 110” in the subject line – that way it will not end up in my spam folder]

Office hours: Thursday 4:00 – 5:00 pm
NSB 4209

1. Academic integrity

The short version: **DO NOT CHEAT.**

The long version: 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 to whom it is assigned, without unauthorized aid of any kind.

Friendship and/or love are not excuses to either cheat, or to help cheat. The person giving out answers is as culpable for cheating as the person doing the copying. Subtle indicators in exams will be included to prevent cheating, and any suspicious activity will merit immediate investigation. If I am convinced that there is case of academic misconduct, there will be severe consequences. You ***will*** be reported to the Office of Academic Integrity, and you ***will*** face academic sanctions including, but not restricted to:

- Creation of a disciplinary record (which will be checked by graduate and professional schools)
- Disciplinary probation
- Attendance at an Academic Integrity Seminar (at a cost of \$75)
- Suspension and dismissal from the University

So, please. Make it easy on everyone and **DO NOT CHEAT**. It's not going to be worth it.

2. TAs and Discussion sections

Graduate TAs

Alvin Chen: alc004@ucsd.edu

Eileen Tran Pham: etpham@ucsd.edu

Steven Martell: smartell@ucsd.edu

Undergraduate TAs

Dang-A Kim: dak010@ucsd.edu

Matthew King: m1king@ucsd.edu

John Pham: j1pham@ucsd.edu

Annapurna Vemu: avemu@ucsd.edu

John Tat: jtat@ucsd.edu

Misbah Ahmed: miahmed@ucsd.edu

Sign up for sections online. Information is at: <http://sections.ucsd.edu/overview.shtml>

Sections will go over readings pertaining to class lectures, or problem sets. Attendance at sections is **not** compulsory, but **materials discussed in sections will be included in the exams**. Problem sets will **not** be graded, and will **not** count towards your grade in any form or fashion.

Sections will begin the second week of class.

3. Class web site

The class web site is on WebCT: <http://webctweb.ucsd.edu>

ALL class notices and reading materials will be on the website. Please check the website often, as this will serve as the primary means of communication and distribution of information.

TA office hours will also be posted on the class website.

4. Office hours

I will hold office hours on **Thursdays from 4:00pm to 5:00pm at NSB, 4209**. If possible, I will hold extra office hours prior to the finals. Please be considerate of everyone's time and come prepared with specific questions for office hours.

5. Exams and grades

There will be **two** exams:

1. **Mid-term (April 29th, in class)**
2. **Final (June 10th, location TBA)**

The mid-term will count to 40% of your grade, and the final will be 60%. Final grades will be determined by a curve.

There will be **no make-up exams for the mid-term**. If you miss the mid-term and have a **valid** excuse (and only if I am convinced that your excuse is valid), your final exam will count to 100% of your grade. If you miss the final exam (and only with a **valid** excuse), I may, at **my discretion** offer a make-up oral exam.

6. Regrades

Exams will be photocopied before being returned to you. If anything you are submitting for regrading is found to be altered, it will be considered a breach of academic integrity, and severe action will be taken, as outlined in the Academic integrity section of this syllabus.

A request for a regrade, along with the reason **must first be emailed** to me. Please provide a **detailed** reason why you think your answer is correct. Merely saying things like “I should get more points for question X,” or “My answer to question X was correct” are not considered valid reasons for regrading an answer. Regrade requests must be made **within a week** of the exam return date. If I decide that you have a valid reason for a regrade, you may submit the original exam to me in person, either during office hours, or at lecture. **ONLY** exams written in ink will be regraded. **Illegible** answers will not be regraded. If the answer/s you are submitting for regrading contains any **white-out or scratching**, it will not be regraded.

The regrade policy is only in place so you don't pay the price for human error. Please do not use the regrade policy as a means to try and secure a few extra points. **It will not work, and eventually will prove to be counterproductive. Trust me.**

7. Course outline

	Lecture topic	Discussion sections
Week 01 03-28, 03-30, 04-01	Techniques used to study cells: Microscopy, protein techniques, proteomics	
Week 02 04-04, 04-06, 04-08	Building blocks & regulation Review of DNA, RNA, proteins, lipids, carbohydrates. How is cellular metabolism coordinated	Hi resolution optical microscopy
Week 03 04-04, 04-06, 04-08	Membranes & Organelles Lipid bilayers, various cellular organelles and their functions	The deal with cholesterol
Week 04 04-11, 04-13, 04-15	Trafficking Getting things where they are supposed to go	Mitochondria and human evolution
Week 05 04-18, 04-20, 04-22	Endocytosis & exocytosis Getting things into cells. Sending things out of cells	Crusher fish
Week 06 04-25, 04-27	Cell signaling Canonical signaling pathways and examples. Turning on signals, and turning them off. Signaling cascades and crosstalk	Mid-term review
Week 07 05-02, 05-04, 05-06	Cytoskeleton & motors Actin and microtubules. Driving cell morphogenesis and movement. Moving cellular components within cells	Intracellular pathogens
Week 08 05-09, 05-11, 05-13	Cell division & cell death Cell division and its regulation. Cell death by apoptosis and autophagy	Single molecule observations of motor proteins
Week 09 05-16, 05-18, 05-20	Stem cells & cancer	Asymmetric cell division
Week 10 05-23, 05-25, 05-27	Cell-cell interactions Building a multi-cellular organism	Evolution of eukaryotic cells
Week 11 06-01, 06-03	Review and recap	Finals review