**BICD 110: Cell Biology** **Fall 2016**
**Dr. Kiger** **T/Th 12:30-1:50 PM, Warren Hall 2005**

# COURSE SYLLABUS

| # | DATE | TOPIC | READING<br>LODISH ET AL.,<br>7TH OR 8TH ED.<br>*SEE TED.UCSD.EDU* | HOMEWORK<br>*SEE TED.UCSD.EDU* |
|---|---|---|---|---|
| 1 | Thursday<br>9/22 | Cell Biology<br>Overview & Methods | Chapters 1 & 9 | Problem Set 1<br>(Lectures #1-2)<br>***Due in Sections 9/26-9/28*** |
| 2 | Tuesday<br>9/27 | Biomembranes &<br>Membrane Transport | Chapter 10-11 | PRACTICE TED QUIZ #1<br>(Lecture #1)<br>***Due before class 9/27*** |
| 3 | Thursday<br>9/29 | More Membrane Transport | Chapter 11 | Problem Set 2<br>(Lectures #3-5)<br>***Due in Sections 10/3-10/5*** |
| 4 | Tuesday<br>10/4 | Mitochondrial & Nuclear<br>protein targeting / transport | Chapter 13 | TED QUIZ 2<br>(Lectures #2-3)<br>***Due before class 10/4*** |
| 5 | Thursday<br>10/6 | Endoplasmic Reticulum<br>protein targeting / transport | Chapter 13 | Continue Problem Set 2<br>(Lectures #3-5)<br>***Due in Sections 10/10-10/12*** |
| 6 | Tuesday<br>10/11 | Membrane Review:<br>Lessons from Neurons | Chapter 22<br>(optional) | TED QUIZ 3<br>(Lectures #4-5)<br>***Due before class 10/11*** |
| | **Thursday<br>10/13** | **In Class<br>MIDTERM EXAM 1** | **Lectures 1-6** | **Exam Review Session<br>TBA** |
| 7 | Tuesday<br>10/18 | Vesicular Membrane<br>Trafficking<br>**guest lecturer, Jenna Hicks** | Chapter 14 | Review Midterm 1, start PS 3<br>***in Sections 10/17-10/19*** |
| 8 | Thursday<br>10/20 | Secretion and<br>The Golgi Apparatus<br>**guest lecturer, Jenna Hicks** | Chapter 14 | Continue Problem Set 3<br>(Lectures #7-9)<br>***Due in Sections 10/17-10/26*** |
| 9 | Tuesday<br>10/25 | Endocytosis, Autophagy<br>& Lysosomes | Chapter 14 | TED QUIZ 4<br>(Lectures #7-8)<br>***Due before class 10/25*** |
| 10 | Thursday<br>10/27 | Signal Transduction I:<br>Overview & Methods | Chapter 15 | Problem Set 4<br>(Lectures #10-12)<br>***Due in Sections 10/31-11/9*** |
| 11 | Tuesday<br>11/1 | Signal Transduction II:<br>Short-term responses | Chapter 15 | TED QUIZ 5<br>(Lectures #9-10)<br>***Due before class 11/1*** |

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| # | DATE | TOPIC | READING | HOMEWORK |
|---|---|---|---|---|
| 12 | Thursday 11/3 | Signal Transduction III: Long-term responses | Chapter 16 | Continue Problem Set 4 (Lectures #10-12) ***Due in Sections 10/31-11/9*** |
| 13 | Tuesday 11/8 **Election Day!** | Traffic & Signals Review: Lessons from immunity and pathogenesis | Chapter 23 (optional) | TED QUIZ 6 (Lectures #11-12) ***Due before class 11/8*** |
| | **Thursday 11/10** | **In Class MIDTERM EXAM 2** | **Lectures 7-13** | **Exam Review Session TBA** |
| 14 | Tuesday 11/15 | Actin Cytoskeleton | Chapter 17 | Review Midterm 2, start PS 5 ***Due in Sections 11/14-11/16*** |
| 15 | Thursday 11/17 | Microtubule Cytoskeleton | Chapter 18 | Problem Set 5 (Lectures #14-16) ***Due in Sections 11/14-11/23*** |
| 16 | Tuesday 11/22 | Motor Proteins | Chapters 17 & 18 | TED QUIZ 7 (Lectures #14-15) ***Due before class 11/22*** |
| | **Thursday 11/24** | **NO CLASS Thanksgiving** | | Problem Set 6 (Lectures #17-18) ***Due in Sections 11/28-11/30*** |
| 17 | Tuesday 11/29 | Mitosis & Cell Cycle | Chapter 19 | |
| 18 | Thursday 12/1 | Cell Biology Review: Lessons from Cancer | Chapter 24 (optional) | TED QUIZ 8 (Lectures #16-17) ***Due before class 12/1*** |
| | **FRIDAY 12/9/15** | **FINAL EXAM 11:30 AM-2:30 PM, Room TBD** | **Lectures 1-18** | **Exam Review Session TBA** |

**DESCRIPTION** BICD 110 is an upper level course for Biology majors on the structure and function of eukaryotic cells and cellular organelles, and their roles in cell growth, division and specialization.

**COURSE WEBSITE** tritoned.ucsd.edu (enrolled students will be added 1 week before Fall term)

**TEXTBOOK** *Molecular Cell Biology*, Lodish *et al*., 7th or 8th Edition

**OFFICE HOURS** Most Mondays, 12:00-1:30 PM; Natural Science Building Room 6109
By appointment Tuesdays & Thursdays after class 2:00 PM