Biology 200 - Cell Biology, Summer 2015

Lectures: MWF 1:00-3:00; **Room:** Biosciences 2000

Course Website: URL http://www.elearning.ubc.ca - **BIOL 200 Section 921 - 2015S**; requires UBC CWL ID.
For Connect help, contact the Help Desk: **http://elearning.ubc.ca/support/contacts/**

Co-instructors: Dr. Megan Barker (BioSci room 2071) and **Dr. Marcia Graves** (BioSci room 2058)
We will be teaching together throughout the course. Each instructor will take the lead on particular units, but we'll both be at class. Please feel free to come to either of us during the term.
Office hours MWF 3-4pm. We will also operate on an open-door policy on class days.

Contact: For questions about the course material, we prefer that you post messages on the discussion board first. For personal matters, please use the link on the Connect site to email either of us.

Course content questions/discussion: This is your first place to ask questions about the content; we encourage discussion between your peers and ourselves. The main discussion board is hosted on Piazza (to sign up, go to: **piazza.com/ubc.ca/summer2015/biol200**). All discussions will be monitored primarily by the Peer Tutors: Michael Wong and Milo Yo. There is also a Facebook group: BIOL200 Summer 2015.

Textbook (recommended but not required):
Alberts et al. - *ESSENTIAL CELL BIOLOGY,* 4th ed., 2013, Garland Press. (3rd edition is also fine to use.)

Grading:

Midterm	**20%**	*(90 min, during class time, June 1st)*
Final	**50%**	*(2.5 hr. Final exam period, June 22-26)*
Tutorial component	**20%**	*(details on next page)*
Pre-reading assignments	**6%**	*(online quizzes for each unit, due before class, based on online pre-readings; lowest quiz mark will be dropped)*
Participation mark	**4%**	*(based on in-class activities, homeworks, and i>clicker use)*

Classroom Philosophy:

- We believe, and the evidence shows, that people learn best when they are actively doing, rather than only listening. In this class, we will explore cell biology together in an interactive, open style. We strongly encourage questions, ideas, and discussion between yourselves and with us. We welcome your feedback at any point; please also respect other students in your class by contributing thoughtfully and by minimizing distractions.

Midterm and Final Exam:

- The midterm is on **Monday June 1st in class at 1pm**.
- Both the midterm and final are mandatory. The final exam will be cumulative, with an emphasis on material taught after the midterm.
- Both midterm and final exams will contain short answer questions and an essay outline question.
- For the midterm and final exams, one **hand written information sheet** of 8.5x11" paper, double-sided, will be allowed. Memorizing facts is not the goal of this course, you must be able to use information to solve problems and defend a point of view. Information sheets will be collected with the exams.
- A sample midterm and final exam, with answers, are available for students to become familiar with the style of questions (Resources/Study Aids/Exams).

Other Policies:

- Learning Objectives, Reading Lists, Study Guides, Problems, and Review Questions are available on the course Connect site for you to use. They are your best resource for understanding what is expected of you.
- i>Clickers will be used to facilitate discussion. The purpose is to make the classroom more interactive. Clickers are registered to individual student IDs. Do not ask another person to use your clicker in class and do not use another student's. Misuse will result in 0 marks and you will be reported for academic misconduct.
- If you miss the final exam you must apply for a deferred exam through your faculty's Dean's Office.
- **You must pass the lecture component of the course (midterm and final) to pass the course**; passing the tutorial is not sufficient.
- **No final grades between 45 and 50% will be awarded**. **The highest failing grade will be 45%.**

Tutorial:

Tutorial Coordinator: Chansonette Badduke (chansybad@gmail.com, T01)
Teaching Assistants: Sara Saberi (T02, 03) and Meng Li (T04, T05)
Tutorials take place every Wednesday and Friday; attendance is mandatory. They take place in Biosciences 0505 and 0509. We would prefer that you do not miss a tutorial, especially on days when there are comprehensive post-tests. If you know ahead of time that you have a conflict, please talk to Chansonette as soon as possible. More information about the specifics of the tutorial will be given at your first tutorial, on **Wed, May 13th**.

Tutorial Evaluation (Total=20%): End of Unit Tests 4x2%=8%; Writing assignment: 12%

The tutorial is designed to support your learning in Biology 200. In tutorial you will write 4 end of unit tests that will give you practice with the kinds of questions you will encounter on midterms and final exams. You will also have the chance to work through problems in class through a number of problem-solving sessions. A major objective of this tutorial is the development of scientific literacy. We want you to be familiar with scientific literature. As such, we will be asking you to do a writing assignment that will require you to look at scientific literature and compare it to how the media presents science.

Course Schedule – Summer 2015

Date	**Lecture number and topic**	**Lead instructor (tentative)**	**Pre-quiz due before class**	**Tutorial (Wednesdays & Fridays)**
Mon May 11	L1: Unit 1 – Introduction	Graves		--
Wed May 13	L2: Unit 1 – Microscopy Unit 2 – Biological Membranes 1	Graves Barker	Unit 2	Unit 1 – Tutorial Intro
Fri May 15	L3: Unit 2 – Biological Membranes 2	Barker		Unit 2 – problem
Mon May 19	*Victoria Day Holiday – NO CLASSES*	--		***NO TUTORIAL***
Wed May 20	L4: Unit 2 – Biological Membranes 3	Barker		Unit 2 problem
Fri May 22	L5: Unit 3 – The Nucleus 1	Graves	Unit 3	Scientific Writing **Post-test Unit 2**
Mon May 25	L6: Unit 3 – The Nucleus 2 Unit 4 – Gene to Protein 1	Graves Barker		--
Wed May 27	L7: Unit 4 – Gene to Protein 2	Barker	Unit 4	Unit 3 problem **Post-test Unit 3**
Fri May 29	L8: Unit 5 – The Endomembrane System 1	Barker		Unit 4 problem **Indiv. Asst. due**
Mon June 1	**MIDTERM EXAM – 75 min in class.**	--		***NO TUTORIAL*** ***TA OFFICE HOURS***
Wed June 3	L9: Unit 5 – The Endomembrane System 2	Barker	Unit 5	***NO TUTORIAL***
Fri June 5	L10: Unit 5 – The Endomembrane System 3 Unit 6 – Mitochondria & Chloroplasts 1	Barker	Unit 6	Unit 5 problem
Mon June 8	L11: Unit 6 – Mitochondria & Chloroplasts 2	Barker		--
Wed June 10	L12: Unit 7 – The Cytoskeleton 1	Graves	Unit 7	Problem Solving **Post-test Unit 5**
Fri June 12	L13: Unit 7 – The Cytoskeleton 2	Graves		Unit 7 problem **Group Asst. due**
Mon June 15	L14: Unit 8 – The Cell Cycle 1	Graves	Unit 8	--
Wed June 17	L15: Unit 8 – The Cell Cycle 2	Graves		**Post-test Unit 6 & 7**
Fri Jun 19	OPTIONAL - Review Session (may instead be held during exam week)	--		***NO TUTORIAL*** ***TA OFFICE HOURS***
June 22-26	Final exam held this week (date determined by the registrar)			