Cell Biology, Biol 360, Fall 2018

Goals for this course:

We selected interesting and complex topics of cell biology in order to introduce you with major concepts and working techniques of cell biology. We want you to understand general principles of cell organization, intracellular transport, cell communication, signal transduction pathways & cell cycles including apoptosis. Occasionally we include peer reviewed research papers in order to show you how textbook knowledge is created and how experiments are performed. We want you to understand experimental set up and be able to interpret figures presenting research results. Our main goal is to teach you the scientific way of thinking. We look forward to the continuing studies of the fascinating world of cell biology!

Class time and location: Monday & Thursday 1 pm -2.20 pm in FRA159. Classes start Wednesday September 5th and end Wednesday December 5th.

Prerequisites: 230, Bioc 200 or 299 or pre or corequisite 300A or 300B. Please be aware that if you drop a co-req the system will automatically drop you from this course as well!

Instructors: **Dr. Ben Koop**
email: bkoop@uvic.ca
office: Petch 041a
Office hours: TBA

Dr. Barbara Ehlting (Course coordinator)
email: behlting@uvic.ca
office: Petch 005
office hours: Wednesdays 10.30-noon or by appointment or simply drop by.
I am happy to help you with lecture related questions as much as I can. Please do not hesitate to contact me.

Office hours are for you to connect with us, review exams, discuss lecture material and get to know each other. It is easier for us to a write reference letter for you if we know you!

Textbook: Molecular Biology of the Cell, 6th edition, Alberts B, Johnson, A, Lewis J, Morgan, Raff M, Roberts K, Walter P, Garland Science, ISBN 978-0-8153-4432-2

The book is available to you in various forms:

- the textbook can be purchased at the bookstore NEW $292.75
- USED text: $197.25
- Looseleaf: $139.75
- Etext is available via VitalSource.com

Lecture notes will be posted on a CourseSpaces website for you. I recommend that you bring the lecture notes to classes to add comments on slides and answer questions. **Provided lecture slides are for personal use ONLY and are not allowed to be distributed without permission from the publisher.**

Tentative Class Schedule

- Welcoming, rules and regulations,
- Introduction to Cell Biology (parts of chapters 1,3, 4, 12, 14)
- Working with cells: visualizing cells and manipulation of cells (chapters 8, 9)
- Membranes (chapter 10)
- Membrane transport of small molecules & the electrical properties of membranes (chapter 11)
- Intracellular Compartments and Protein sorting (chapter 12)
- Intracellular vesicular Traffic (chapter 13)
- Cell communication and signaling pathways in cells (chapter 15)
- Cytoskeleton (chapter 16)
- Cell cycle (chapter 17)
- Apoptosis (chapter 18)
- Cancer (chapter 20)
- Wrap up and catch up, Review, evaluation…

How to be successful

In order to be successful we strongly recommend that you **TURN OFF all online sources** (social media/cell phone/facebook/twitter/Youtube/email/text messaging…) **during class time AND while you study at home**. Digital communication is distracting and you are not able to concentrate on lecture material. There are many studies showing that grades are negatively affected by focusing on off task material.

Exam times can be very stressful for you. In order to stay healthy physically and mentally make sure that you get enough sleep, eat well, exercise and take breaks. Avoid last minute study panic by working regularly throughout the term: we recommend that you spend at least 2-3 hours studying after each lecture!

Exams:

Midterm 1	30%	in class on Thursday October 4th
Midterm 2	30%	in class on Monday November 5th
Final	40%	scheduled by registrar, cumulative

The exams will be multiple choice questions (each question worth 1 mark).

No electronic devices of any kind will be permitted during the exams.

If you cannot attend an exam for a valid reason (illness, accident, family crisis), it is your responsibility to inform the course coordinator (BE) as soon as possible and provide suitable documentation (doctor's note or counselor's note).

There will be no supplemental midterm exams. If you are excused from a missed midterm test the course coordinator (BE) will inform you how your final course mark will be calculated. You are eligible to write the deferred final exam (date would be announced if necessary) if you have a valid reason for missing the final exam.

General regulations:

Grading system:

In determining final grades for the course, our spreadsheet will round your course score to the nearest whole percent. That is the official course grade that will be submitted for you. Under a new policy, instructors at UVic no longer submit letter grades for students.

We cannot change your grade for any reason, except if we have made an error calculating it. There is no extra work that you can do to raise your grade.

Failure to complete at least one midterm and the final exam will result in a grade of "N" regardless of the cumulative percentage on other elements of the course. An N is a failing grade, and it factors into a student's GPA as 0. The maximum percentage that can accompany an N on a student's transcript is 49.

Please read the appropriate section of the current UVic Academic Calendar regarding your rights and obligations.

It is your responsibility to be aware of ADD/DROP dates published in the Calendar. If you intend to drop this course, please do so officially and give up a space for students who might be on a waitlist.

You are expected to observe UVic standards of scholarly integrity especially with regards to plagiarism and cheating. If you cheat during an exam you will be graded with 0 for this exam and the incident will be reported. Further consequences might apply.

UVic and we as instructors are committed to promoting, providing and protecting a supportive and safe learning and working environment for you and us.

Important Dates

In the UVic calendar you will find a fuller list of important dates, but the ones we have listed below are the ones that will matter to students in Biology 360.

Wednesday, September 5	First day of classes
Tuesday, September 18	Last day for 100% reduction of tuition fees for standard first-term and full-year courses
Friday, September 21	Last day for adding classes
Thursday, October 4th	**Bio360 Midterm Exam 1; Dr. Ehlting's material only**
Monday, October 8	Thanksgiving holiday, no classes
Tuesday, October 9	Last day for 50% reduction in tuition fees for standard courses. 100% of tuition fees will be assessed for courses dropped after this date.
Wednesday, October 31	Last day for withdrawing from courses without penalty of failure
Thursday, November 5	**Bio360 Midterm Exam 2; Dr. Ehlting's and Dr. Koop's material**
Mon-Wed, November 12-14	Reading break, no classes
Wednesday, December 5	Last day of classes
Saturday, December 8	First day of final exam period
Saturday, December 22	Last day of final exam period

We hope that you are enjoying a great fall term with Bio360 Cell Biology!