

BIOLOGY 186 – Physiology and Cell Biology, Online Edition

Department of Biology, University of Victoria

Spring 2021

Course description

This course, the companion course to Biology 184, focusses on functional aspects of organisms. Biochemistry, cellular components, membrane structure and function, energy transduction, DNA replication and gene expression. Insight into plant structure and response mechanisms of these light-

Senior Laboratory Instructor

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Email: biologylabs@uvic.ca (for questions related to lab content). If you send an email, please

- Third, you can email us directly with your questions or schedule a personal Zoom appointment. This would be appropriate if you have something personal or confidential to discuss.

3. *Synchronous Labs* Labs are an important part of Biology. See the information about labs, below.

4. *Online Exams* see the information about the online exams, below.

Required text

Campbell Biology, third Canadian edition, by Urry *et al.* 2021. Available through the bookstore. You can purchase either a hardcopy or e-text version. This is the same text as was used in Biology 184 in the fall.

If you have access to the previous edition of the text (second Canadian edition), that will be alright for you to use, but bear in mind that some of the pagination, figure numbers and problem numbers might be different.

etext. Some students find this access useful, but we do not require access in this course. If you are using the second Canadian edition of the text, which does not come with website access, you will not have to purchase website access to do well in this course.

If you buy a new book, or if you buy the etext + Mastering Biology, you will need a course ID and other information about accessing the Pearson website. Please see the sheet of instru crb5mmtor if you bl556

Evaluation

The lecture portion of the course is worth 55% of your final grade. The lecture exams will not be cumulative. They will be open on Brightspace from 8:30 AM to 8:30 PM on the days stated, but you will have your own personal clock; see below for timings on this clock.

Grading

At the University of Victoria, grades are submitted by instructors as percentages. These will be converted to letter grades by administration, according to the grading scale given in the university calendar.

We cannot change your grade, except if we have made an error in determining it. There is no extra work that you can do to raise your grade. *Please do not ask us to raise your grade because you need or want a higher one.*

No supplemental final exam (second-chance final exam) will be given in this course, although, as described above, you may defer the final exam if you are ill that day.

You will receive a grade of N (a failing grade which indicates that an essential course

January 25 ±29

- Lab 2
- Monday Zoom with Greg (scheduled lecture section times: 10:00 AM, 1:00 PM, 3:30 PM)
- Friday, 1
Bioenergetics and metabolism
Respiration
Text reading:
Chapter 8 (2nd edition and 3rd edition)
Chapter 9, pp. 175-193 (2nd edition)
Chapter 9, pp. 176-194 (3

February 22 ±26

- Lab 5
- Monday Zoom with Peter (scheduled lecture section times: 10:00 AM, 1:00 PM, 3:30 PM)
- Friday, 1

March 22 ±26

- Lab 8
- Monday Zoom with Dave (scheduled lecture section times: 10:00 AM, 1:00 PM, 3:30 PM)
- Friday, 1
Neurons and nervous systems; text readings Chapter 48, pp. 1129-1145 (2nd ed. pp. 1120-1135), Chapter 49, pp. 1147-1152 (2nd ed. 1138-1143)

March 29 ±April 2

- Lab 9
- **Monday Zoom** with Dave (scheduled lecture section times: 10:00 AM, 1:00 PM, 3:30 PM)
- Thursday, 1
Sensory and motor systems; text readings Chapter 50, pp. 1170-1174 (2nd ed. pp. 1162-1166), Chapter 51, pp. 1189-1199 (2nd ed. pp. 1180-1184)

April 12 (Monday)

- Monday Zoom with Dave (scheduled lecture section times: 10:00 AM, 1:00 PM, 3:30 PM)

End of term

April 15 ±27

Exam period; includes both Sundays

The Biology 186 final exam will occur on a date the university will announce in February. It will have two parts:

- questions. The exam will be open from 8:30 AM – 8:30 PM; you will have 150 minutes on your personal clock.
- The lab part – details to be announced later.