

**Lectures:** Tuesdays and Thursdays 11:45AM - 1:00PM, Room SP-S110

**Instructor:** Dr. Vladimir Titorenko, Office: SP 501.13  
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**Office hours:** Office hours are held on Tuesdays and Thursdays from 9:00AM to 10:00AM

**Tutorial session 1:** Tuesdays 1:15PM - 2:30PM, Room CJ 1.125 (TA: Christyna Desjardins;

**Tutorial session 2:** Tuesdays 2:45PM - 4:00PM, Room CJ 1.125 (TA: Christyna Desjardins;

**Tutorial session 3:** Thursdays 1:15PM - 2:30PM, Room CJ 1.125 (TA: Andrea Perez;

**Tutorial session 4:** Thursdays 2:45PM - 4:00PM, Room CJ 1.125 (TA: Andrea Perez;

**There will be no tutorial sessions during the 1<sup>st</sup> week of classes (i.e., from January 6<sup>th</sup> to January 12<sup>th</sup>)**

### Marking scheme:

1) If your mark for the final exam **is better** than your worst mark for a midterm test:

**70%** of your final grade for the course = your mark for the final exam

+ **20%** of your final grade for the course = your best mark for a midterm test

+ **up to 5%** of your final grade for the course = your mark for the pre- and post-lecture homework assignments completed online with the help of Smartwork5 (pre- and post-lecture homework assignments are NOT optional)

+ **up to 5%** of your final grade for the course = your mark for the quiz questions completed during tutorial sections (quiz questions are NOT optional; your best 5 marks for the quizzes will be used to calculate the point percentage for such quizzes)

2) If your mark for the final exam **is NOT** better than your worst mark for a midterm test:

**50%** of your final grade for the course = your mark for the final exam

+ **20%** of your final grade for the course = your mark for the 1<sup>st</sup> midterm test

+ **20%** of your final grade for the course = your mark for the 2<sup>nd</sup> midterm test

+ **up to 5%** of your final grade for the course = your mark for the pre- and post-lecture homework assignments completed online with the help of Smartwork5 (pre- and post-lecture homework assignments are NOT optional)

+ **up to 5%** of your final grade for the course = your mark for the quiz questions completed during tutorial sections (quiz questions are NOT optional; your best 5 marks for the quizzes will be used to calculate the point percentage for such quizzes)

**IMPORTANT: The above marking scheme is provisional. The instructor can change it at any time.**

## **The availability of homework assignments on Smartwork5:**

1) A **pre-lecture homework assignment** will be posted on Smartwork5 at **09:00AM of a day before the first class** covering a particular chapter (*i.e.*, if the first class covering a chapter is on Tuesday, a pre-lecture homework assignment will be posted on Smartwork5 at 09:00AM on Monday of the same week). The total number of questions per a pre-lecture homework assignment is 20. If your answer to the question is correct, you will get 1 point. You will be able to make not more than **1 (one) attempt** to answer each question. Hints for finding the correct answer are available for each question. Your pre-lecture homework assignment **must be completed within 48 hours after they were posted** on Smartwork5 (*i.e.*, before **Wednesday 09:00AM of the same week**).

2) A **post-lecture homework assignment** will be posted on Smartwork5 at **09:00AM on a day of the second class** covering a particular chapter (*i.e.*, if the second class covering a chapter is on Thursday, a post-lecture homework assignment will be posted on Smartwork5 at 09:00AM, before the class on Thursday). The total number of questions per a pre-lecture homework assignment is 15. If your answer to the question is correct, you will get 1 point. You will be able to make not more than **1 (one) attempt** to answer each question. Hints for finding the correct answer are available for each question. Your post-lecture homework assignment **must be completed within 48 hours after they were posted** on Smartwork5 (*i.e.*, before **Saturday 09:00AM of the same week**).

**There will be no pre-lecture and post-lecture homework assignments during the 1<sup>st</sup> week of classes (*i.e.*, from January 6<sup>th</sup> to January 12<sup>th</sup>)**

### **VERY IMPORTANT:**

**Students who attempt to gain access to instructor tools for the required textbook are in violation of the academic code of conduct and a report will be submitted. This carries severe consequences.**

### **Materials covered in the 1<sup>st</sup> and 2<sup>nd</sup> midterm tests and in the final exam:**

In the 1<sup>st</sup> midterm test you will be examined on materials covered in lectures 1-4. There will be the total of 36 multiple-choice questions. The test will last for 75 min.

In the 2<sup>nd</sup> midterm test you will be examined on materials covered in lectures 5-8. There will be the total of 36 multiple-choice questions. The test will last for 75 min.

The final exam deals with the entire course with half of the questions based on materials covered in lectures 9-12. There will be the total of 50 multiple-choice questions. 50% of the questions will be based on materials covered after the 2<sup>nd</sup> midterm test. 25% of the questions will be based on materials covered in the 1<sup>st</sup> midterm test. Another 25% of the questions will be based on materials covered in the 2<sup>nd</sup> midterm test. The exam will last for 3 h.

If you miss a term test for medical or other serious reasons, you must provide documentation within a week. Otherwise your mark will be zero.

If you miss the final examination, you must contact the Examination Office to schedule a deferred examination.

## Grades:

Grades will be assigned as follows:

90-100% = A+

85-89.9% = A

80-84.9% = A-

76-79.9% = B+

73-75.9% = B

70-72.9% = B-

66-69.9% = C+

63-65.9% = C

60-62.9% = C-

56-59.9% = D+

53-55.9% = D

50-52.9% = D-

**IMPORTANT: The above grade assignment scheme is provisional. The instructor can change it at any time.**

## Required textbook:

*Essential Cell Biology* by Alberts *et al.* (5<sup>th</sup> edition) published by W.W. Norton & Co. in 2019

Alternative purchase options:

- 1) eBook with Smartwork5 Standalone Access Card; ISBN 9780393691092; New: \$107.75 (Canadian);
- or 2) Loose-leaf textbook with eBook access; ISBN 9780393680386; New: \$150.25 (Canadian);
- or 3) Hardcover textbook with eBook access; ISBN 9780393680379; New: \$185.25 (Canadian)

**The textbook can be ordered online at the Book Stop**

**(<https://www.bkstr.com/concordiastore/home>)**

**If you have questions relating to Book Stop orders, please email [2959mgr@follett.com](mailto:2959mgr@follett.com)**

**Outline and lecture notes:** Are available on the Moodle learning management system

(<http://moodle.concordia.ca/>) for the BIOL 266/4/03 course

**How to get access to and then use Smartwork5, an online, self-graded homework system that provides students with interactive, engaging content:** Instructions are available on the Moodle learning management system (<http://moodle.concordia.ca/>) for the BIOL 266/4/03 course

**How to get started with Smartwork5?**

**Step 1:** If you purchased your book new, an access card (called the **Student's Registration Code**) for

Smartwork5 would have come with your book.

**Step 2:** Your instructor’s Smartwork5 section is called a Student Set. To join your instructor’s Student Set, enter your Student Set ID. **Your Student Set ID for the BIOL 266/4/03 course is 567715.**

**BIOL 266/4/03 (2022) tentative lecture topics**

Date	Lecture	Topics	Textbook “Essential Cell Biology”
January 6	1	Cells: The Fundamental Units of Life (I)	Chapter 1
January 11	1	Cells: The Fundamental Units of Life (II)	
January 13	2	Protein Structure and Function (I)	Chapter 4
January 18	2	Protein Structure and Function (II)	
January 20	3	Control of Gene Expression (I)	Chapter 8
January 25	3	Control of Gene Expression (II)	
January 27	4	Membrane Structure (I)	Chapter 11
February 1	4	Membrane Structure (II)	
<b>February 3 first midterm test on materials covered in lectures 1-4</b>			
February 8	5	Transport Across Cell Membranes (I)	Chapter 12
February 10	5	Transport Across Cell Membranes (II)	
February 15	6	How Cells Obtain Energy from Food (I)	Chapter 13
February 17	6	How Cells Obtain Energy from Food (II)	
February 22	7	Energy Generation in Mitochondria and Chloroplasts (I)	Chapter 14
February 24	7	Energy Generation in Mitochondria and Chloroplasts (II)	
March 8	8	Intracellular Compartments and Protein Transport (I)	Chapter 15
March 10	8	Intracellular Compartments and Protein Transport (II)	
<b>March 15 second midterm test on materials covered in lectures 5-8</b>			
March 17	9	Cell Signaling (I)	Chapter 16
March 22	9	Cell Signaling (II)	
March 24	10	Cytoskeleton (I)	Chapter 17
March 29	10	Cytoskeleton (II)	
March 31	11	The Cell-Division Cycle (I)	Chapter 18
April 5	11	The Cell-Division Cycle (II)	
April 7	12	Cell Communities: Tissues, Stem Cells and Cancer (I)	Chapter 20
April 12	12	Cell Communities: Tissues, Stem Cells and Cancer (II)	