

Chemistry 2773 – Biochemistry for Life Sciences

Course Outline – Winter 2016

Professor: Dr. Bobby Ellis (office: 323 Elliott Hall; e-mail: bobby.ellis@acadiau.ca)
Please include CHEM 2773 in the subject of all e-mail for this course

Lectures: Mon., Wed. and Fri. 11:30 am - 12:20 pm in 241 Beveridge Arts Centre

Office Hours: Tues. 2:00-5:00 pm and Wed. 9:30-11:00 am or by appointment

Textbook: *Biochemistry: The Molecular Basis of Life, 6th Edition* by McKee and McKee
ISBN-13: 978-0-19-020989-6; the textbook is **not required**,
but access to a *biochemistry textbook* is recommended

Evaluation:	<u>Scheme A</u>	<u>Scheme B</u>
	Sapling Assignments 10 %	
	Project 15 %	Project 15 %
	Midterm Exam #1 15 %	Midterm Exam #1 15 %
	Midterm Exam #2 15 %	Midterm Exam #2 15 %
	Midterm Exam #3 15 %	Midterm Exam #3 15 %
	Final Exam 30 %	Final Exam 40 %

Your grade will be calculated using both marking schemes; you will receive the higher of the two grades.

Midterm Dates (in class):	Midterm Exam #1	Friday, February 5, 2016
	Midterm Exam #2	Friday, March 4, 2016
	Midterm Exam #3	Monday, March 28, 2016

Programmable calculators are not allowed for midterms or final exams.

There are no make-up midterms. If you miss a midterm examination for a reason deemed excusable by the Registrar, the points are transferred to the value of the final exam.

The goals of this course are to solidify and build upon the concepts of chemical bonding, structure and reactivity presented in First Year Chemistry and Organic Chemistry 1, and their application to systems of biological interest. The topics covered in this course include:

1. Organic Chemistry Review
2. Biochemistry: An Introduction (Chapter 1)
3. Water: The Matrix of Life (Chapter 3)
4. Energy (Chapter 4)
5. Amino Acids, Peptides and Proteins (Chapter 5)
6. Enzymes (Chapter 6)
7. Carbohydrates (Chapter 7)
8. Lipids (Chapter 11)
9. Metabolism (*time permitting*)

The **Chemistry Help Centre** is a **free service** open to all students in all chemistry courses for help with their assignments, lab write-ups and general course questions. Upper year chemistry students will be available on **Monday, Tuesday and Wednesday** evenings to help answer your questions from **6-9 pm** in **320 Elliott Hall**.

Students with Exceptionalities that Affect Learning

If you are a student with a documented disability who anticipates needing supports or accommodations, please contact Dr. Abu Kamara, Coordinator, Accessible Learning Services at 902-585-1291, abu.kamara@acadiau.ca or Kathy O'Rourke, Disability Resource Facilitator at 902-585-1823, disability.access@acadiau.ca. Accessible Learning Services is located in the Fountain Commons, Lower Level.

Policies on Missed Course Work due to Absences

Assignments

Assignments are completed electronically through Sapling Learning. There are no extensions for assignments. Your lowest assignment grade will be dropped.

Research Projects

If a research project is not submitted by the due date and time, and you **do not have a valid excuse** (as determined by the Registrar's Office), you lose 20% of the total value per 24 hours (or fraction thereof) until it is submitted.

If a research project is not submitted by the due date and time, and you **have a valid excuse** (as determined by the Registrar's Office), it is due the first day after the excused period by 6 pm.