# **Chemistry 3523: Structure Determination** Course Outline – Fall 2021

Professor:	Dr. Bobby Ellis (office: 115 Elliott Hall; e-mail: <u>bobby.ellis@acadiau.ca</u> )				
Lectures:	Tues. and Thurs. 11:00-12:20 pm in 303 Elliott Hall				
Tutorials:	Optional tutorials will be held prior to midterm and final exams				
Office Hours:	Tues. 9:00-11:00 am or by appointment				
Labs:	Thursdays 1:00-4:00 pm in 221 Elliott Hall				
Textbook:	The textbook is a	e textbook is <b>recommended</b> , but not required ganic Structure Analysis, 2 <sup>nd</sup> Edition by Crews, Rodríguez and Jaspars			
T CALDOON.	ISBN-10: 0195336046		•	ISBN-13: 978-0195336047	
Resources:	Supplementary problems and other course resources: <u>http://www.acadiau.ca/~bellis/resources/</u>				
Evaluation:	Assignments/Quizzes		5%		
	Nomenclature		5%		
	Lab Work		30%		
	Midterm Exam #1		15%	Thursday, October 14, 2021	
	Midterm Exam #2		15%	Tuesday, November 23, 2021	
	Final Exam		30%		
Grade Conversion:	Alpha	GPA	%	, 0	
	A+	4.33	90 - 100		
	А	4.00	85 -		
	A-	3.67		80 - 84	
	B+	3.33	77 – 79		
	B B-	3.00 2.67	73 – 76 70 – 72		
	Б- С+	2.33	70 - 67 -		
		C 2.00		63 – 66	
	C–	1.67	60 -		
	D+	1.33	57 -		
	D	1.00	53 -	- 56	
	D-			50 - 52	
	F	0.00	0 -	- 49	

If you miss more than two lab periods for any reason, you earn a failing grade in course.

# Programmable calculators are not allowed for midterms; they are allowed for the final exam.

**There are no make-up midterms.** If you miss a midterm examination for a valid reason, 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 spectroscopy presented in CHEM 2303 and CHEM 2513/2533 and use them to identify the structures of compounds from spectroscopic data. The topics covered in this course are:

Spectroscopy in Structural Analysis by:

- 1. Infrared Spectroscopy
- 2. Ultraviolet Spectroscopy
- 3. NMR Spectroscopy (1D and 2D)
- 4. Mass Spectrometry

#### Fit to Learn Policy

Students are required to show up to laboratory (lab) and lecture at Acadia University in a mental and physical state suitable for learning. This means they must not be impaired due to sources such as (but not limited to) marijuana, prescription drugs, alcohol, severe lack of sleep or any other cause that may compromise the safety and/or learning potential for themselves or other students.

The instructor has the right to remove anyone from the lab setting that they feel is exhibiting signs of impairment with likely grade implications.

## Accessible Learning Services

If you are a student with documentation for accommodations or if you anticipate needing supports or accommodations, please contact:

Ian Ford, Accessibility Resource Facilitator at 902-585-1520, <u>disability.access@acadiau.ca</u> Marissa McIsaac, Manager, <u>disability.access@acadiau.ca</u>

Accessible Learning Services is located in Rhodes Hall, rooms 111-115.

## Commitment to Equity

Acadia University is committed to becoming a culturally safe and anti-oppressive community. This can only be achieved where there are simultaneous efforts to eliminate all forms of discrimination and harassment from our campus community, including the elimination of all discrimination, harassment and violence based on one's identity, including but not limited to, gender, race, class, ethnicity, sexual orientation, disability, gender identity, gender expression, and Indigeneity.

The Equity, Diversity and Inclusion Officer is available to **students**, **staff**, **and faculty**. The fundamental objective of the Equity Office is to **prevent discrimination**, **sexual harassment**, **and personal harassment** from occurring, in part by managing <u>Acadia's</u> <u>Policy Against Harassment and Discrimination</u>. For more information, as well as for resources for students who believe they may have experienced or witnessed discrimination, sexual harassment, or personal harassment please contact Acadia's Equity, Diversity and Inclusion Officer, Polly Leonard, MSW, RSW (she/her/hers) at <u>equity@acadiau.ca</u>, and check out the <u>website</u>.