

Chemistry and Biochemistry FAS Touchstone S2025

(28 Apr 2025)

A Two-part Presentation

1. CHEM Touchstone presentation
2. Information available on the departmental advising page at <https://www.concordia.ca/artsci/chemistry/programs/undergraduate/procedures-forms.html>

Make sure that you are familiar with your program and your degree. Ask your questions early!

The FAS Touchstone seminar introduces you to the resources available to help you navigate the university

Department Contacts

Questions about courses and your program?

Contact the departmental undergraduate student advising team —

- Departmental advising hub
<https://www.concordia.ca/artsci/chemistry/programs/undergraduate/procedures-forms.html>
- Dr. Gregor Kos, Undergraduate Program Advisor
(chembiochem.advising@concordia.ca)
- Dr. Xavier Ottenwaelder, Co-op Academic Director
(dr.x@concordia.ca)
- Lisa Montesano, Undergraduate Program Assistant (chemistry.reception@concordia.ca)
- Advising hours: See automatic booking link for availabilities; if you are unavailable, please send an email with 3 slots that you are available (date & time)



Include your student ID in all requests

- Dr. Heidi Muchall, Undergraduate Program Director
- Maria Dochia, Technical Staff Supervisor
- Department faculty (transfer credit review)

Programs Offered

- Honours (Chemistry or Biochemistry)*
- Specialization (Chemistry or Biochemistry)*
- Major (Chemistry or Biochemistry)
- **NEW:** Environmental and Sustainability Science, ESS (Honours & Specialization)
- (Minor (Chemistry))

* Accredited by the Ordre des chimistes du Québec (OCQ)

-  **Science College** (Patricia Paul, admin.scol@concordia.ca)
- **Co-op**  (Xavier Ottenwaelder, dr.x@concordia.ca)

number
of
credits

Reading the UG Calendar

45 Core Component for Chemistry

CHEM 217³, 218³, 221^{3*}, 222^{3*}, 234³, 235³, 241³, 242³, 271³, 293³, 312³, 324³,
325³, 333³, 341³

**For Cegep equivalents these courses must be replaced with an equivalent number of other Organic Chemistry credits.*

course
numbers

45 Core Component for Biochemistry

BIOL 261³, 266³, 364³, 368³; CHEM 217³, 218³, 221^{3*}, 222^{3*}, 234³, 235³, 241³,
271³, 293³, 324³, 375³³

**For students entering with the Cegep equivalents, these credits must be replaced with an equivalent number of other Organic Chemistry credits (for students in the specialization or honours) or with an equivalent number of credits in Chemistry or related disciplines, as approved by the departmental advisor (for students in the major).*

special notes;
e.g, organic
replacement

CHEM XYZ

X: level (200, 300, 400)

Y: discipline (1= analytical, 2= organic, 3=physical, 4=inorganic,
5=interdisciplinary, 7= biochemistry, 9=spectroscopy);

Z: sequence number

required
program
credits

Reading the UG calendar: Programs

60 BSc Specialization in Chemistry

45 Core component for Chemistry

3 CHEM 495³

6 CHEM 419⁶ or, with departmental permission, CHEM 450⁶

6 Additional credits at the 400 level in Chemistry

NOTE: Students in the specialization program must maintain a GPA of 2.00 or better in the core program, to be evaluated annually.

69 BSc Specialization in Biochemistry

45 Core component for Biochemistry

18 CHEM 312³, 325³, 335³, 477³; BIOL 367³, 466³

6 Credits of 400-level courses in the Biochemistry area (CHEM 470³, 471³, 472³, 475³, 476³, 478³, 481³, and when appropriate, CHEM 498³); three credits may be replaced by a 400-level course in Chemistry or by a 400-level course in Cell and Molecular Biology (443³, 461³, 462³, 463³, 467³, 468³, 472³, and when appropriate, BIOL 498³).

NOTE: CHEM 477³ or BIOL 466³ plus a non-biochemistry program elective can be replaced by CHEM 419⁶ or 450⁶.

NOTE: Students in the specialization program must maintain a GPA of 2.00 or better in the core program, to be evaluated annually.

remaining credits are electives

Electives

How many do I need?

- Required credits for degree – required credits for program
 - **90 cr:** 45 core program + 24 ext. core = 69 cr; **21 cr of electives (Spec, Biochem)**
 - **90 cr:** 45 core program + 15 cr ext core = 60 cr; **30 cr of electives (Spec, Chem)**

What can I take?

- 24 credit rule:
 - 6 cr MUST be out of sector (*i.e.*, not science courses)
 - 18 cr* MUST be out of discipline (*i.e.*, not chemistry/biochemistry courses or required biology courses)
- Remaining electives can be any course (chemistry, biochemistry, science or non-science)

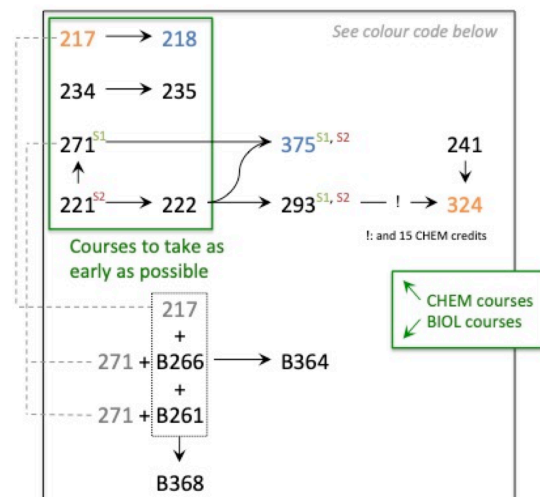
* In a 90 credit Specialization or Honours biochemistry program, this reduces to 15 and 12 credits respectively.

Reading the UG Calendar: Courses

CHEM 241 *Inorganic Chemistry I: Introduction to Periodicity and Valence Theory* (3 credits)

Prerequisite: CHEM 205, 206; PHYS 204, 206, 224, 226; MATH 203, 205 or equivalents for **all** prerequisite courses. The structure of the atom; the periodic table; properties of atoms, covalent bonding treatments including Lewis theory, valence shell electron pair repulsion theory of structure, valence bond and molecular orbital theory. Crystal field theory applied to the structure and properties of transition metal complexes. Bonding theories of metallic materials and semi-conductors. **Lectures and laboratory.**

Biochemistry Major Course Flowchart



Course sequence and planning for registration

Terms when courses are traditionally offered:

- | | |
|-----------------|-------------------------|
| • Fall & Winter | and sometimes on: |
| • Fall only | • Summer 1 (ODD years) |
| • Winter only | • Summer 2 (EVEN years) |

<https://www.concordia.ca/artsci/chemistry/programs/undergraduate/procedures-forms.html>

Read the Class Schedule

OPEN

CLOSED

WAIT LIST

CHEM 206 - General Chemistry II

STATUS	SECTION	DAYS & TIMES	ROOM	INSTRUCTOR	MEETING DATES	TERM	CLASS
CLOSED	02TL-TL 13 Wk	Fr 13:15 - 15:45 Fr 13:30 - 17:30	CC 106 LOY SP 236 LOY	Staff Staff	07/09/2021 - 06/12/2021 07/09/2021 - 06/12/2021	Fall 2021	5313
STATUS	SECTION	DAYS & TIMES	ROOM	INSTRUCTOR	MEETING DATES	TERM	CLASS
OPEN	51-LEC 13 Wk	Tu 18:00 - 20:45	HB 130 LOY	Cerrie Rogers		Fall 2021	1334
STATUS	SECTION	DAYS & TIMES	ROOM	INSTRUCTOR	MEETING DATES	TERM	CLASS
CLOSED	51TL-TL 13 Wk	We 18:30 - 22:30 We 18:30 - 21:00	SP 236 LOY CC 101 LOY	Staff Staff	07/09/2021 - 06/12/2021 07/09/2021 - 06/12/2021	Fall 2021	5314

Course
instructor

Lab &
tutorial
alternating

Room &
campus

Term

Important Dates and Deadlines

- **Changing your courses**
 - DNE: Last day to add/remove courses without academic or financial penalty
 - DISC: Last day for academic withdrawal (with/without refund)
- **Labs & Tutorials**
 - Generally, labs start the second week of term (i.e., first full week of term)
 - Always check your course outline for changes!
- **Mandatory CHEM 101 seminar**
 - Academic code of conduct, usually 3rd week of term (see course outline for changes)
- **Final Exams**
 - Schedule available late October/early November (for Fall term)
 - <https://www.concordia.ca/events/academic-dates.html>

Register for Courses! ASAP!

- **Register as soon as possible** for all your courses once your registration block is lifted (during the next 2 working days).
- **If a course is full you will need to keep trying.** For courses with labs, access to a lab section (e.g., CHEM 205, CHEM 217) is required to get into the course.
- Once you are registered for a space in the lab, access to the lecture is automatic. **Check different lab sections for free spaces.**
- **Students will drop in the meantime** as they adjust their schedules. A seat might become available anytime on a first-come-first-served basis. Keep checking back often.
- **If one or more courses are full, register for other courses** with spaces available, while you keep trying for the others.

If you change your mind...

- And you would like to change sections (e.g., to a different lecture or lab section or both)
- **Use the SWAP function to switch**
- **Never DROP the course to re-enrol in a different section;** the space might be taken by another student waiting to enrol
- Any inadvertent drops cannot be undone. The drop is final
- If you need help with swapping, please contact Lisa Montesano at chemistry.reception@concordia.ca.

Labs

- **You will need:**
 - lab coat
 - safety glasses
 - lab book



- **Remember:**
 - Name & contact details of the teaching assistant (TA)
 - Completed pre-labs are required to enter the laboratory
 - Late entry into labs is not permitted
 - Data sheet must be signed by TA

Your lab supervisor will provide detailed information at the mandatory introductory session.

Co-op and C.Edge Options

Add PAID WORK EXPERIENCE in your field whilst studying

Co-op = 3 internships

Requirements:

- Specialization or Honours
- Full-time status (12 credits each study term)
- Min 2.8 GPA

C.Edge = 1 internship

- Specialization or Honours
- Min 2.5 GPA

When Summer of year 1 is in an ODD year			
	Fall	Winter	Summer
Year 1	CHEM 217	CHEM 218	CHEM 271
	CHEM 222	CHEM 241	CHEM 293
	CHEM 234	CHEM 235	CHEM 325
	BIOL 261	BIOL 266	elective
Year 2	WT 1	CHEM 335	WT 2
		CHEM 375	
		BIOL 364	
		BIOL 367	
Year 3	CHEM 312	WT 3	CHEM 419/450
	CHEM 324		
	CHEM 400		elective
	BIOL 368		elective
Year 4	CHEM 477	+2 electives	
	CHEM 400		
	organic replacement		
	elective		

In-takes: Co-op: Admission, and every January and September

C.Edge: every February

dr.x@concordia.ca

Key Sources of Information

- Student Portal on myConcordia (login via link in top right corner): <https://www.concordia.ca/>
 - incl. **Academic Requirements/Advisement Report** to monitor your study progress
- Chemistry & Biochemistry website: <http://chem.concordia.ca/>
- Chemistry & Biochemistry Information: <https://www.concordia.ca/artsci/chemistry/programs/undergraduate/procedures-forms.html>
- Chemistry & Biochemistry Undergraduate Calendar: <https://www.concordia.ca/academics/undergraduate/calendar/current/section-31-faculty-of-arts-and-science.html>
- Academic Dates: <https://www.concordia.ca/events/academic-dates.html>
- Birks Student Center: <https://www.concordia.ca/students/birks.html>
- Student Academic Services: <https://www.concordia.ca/artsci/students/sas.html>
- International Students Office: <https://www.concordia.ca/students/international.html>
- Departmental Advisors: <https://www.concordia.ca/artsci/students/department-advisors.html>
- Course registration guide: <https://www.concordia.ca/students/registration.html>
- Elective groups: <https://www.concordia.ca/artsci/academics/interdisciplinary/elective-groups.html>

Google search the Concordia website:

Type your Concordia search term with “Concordia” included

Get Help @ Concordia

- **Professor of your course!**
- **Departmental academic advisor**
 - chembiochem.advising@concordia.ca
 - chemistry.reception@concordia.ca
- Student Hub (<http://www.concordia.ca/students>)
- Access Centre for Students with Disabilities (<http://www.concordia.ca/students/accessibility>)
- Student Success Centre (<http://www.concordia.ca/students/success>)
- Counselling (<https://www.concordia.ca/health/mental-health/counselling.html>)
- Health Services (<http://www.concordia.ca/students/health>)
- Financial Aid and Awards (<https://www.concordia.ca/students/financial.html>)
- Academic Integrity (<https://www.concordia.ca/conduct/academic-integrity.html>)
- Concordia Library Citation & Style Guides (<https://library.concordia.ca/help/citing>)
- Dean of Students Office (<https://www.concordia.ca/students/life/dean-of-students.html>)
- International Students Office (<http://www.concordia.ca/students/international>)
- Sexual Assault Resource Centre (<https://www.concordia.ca/conduct/sexual-assault.html>)
- HOJO, Off Campus Housing & Job Bank (<https://www.csu.qc.ca/services/hojo>)
- CSU Advocacy Centre (<https://www.csu.qc.ca/services/advocacy-5/>)
- Indigenous Student Resources (<https://www.concordia.ca/students/otsenhakta.html>)

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Type your Concordia search term with “Concordia” included


Opportunities Outside the Classroom

Keep an eye out and think ahead —

- NSERC & Concordia USRA (departmental information session)
- Summer research in the labs
- International exchanges (CSEP)
- Demonstrating and stock-room work
- Strategic learning leaders
- Scholarships and awards

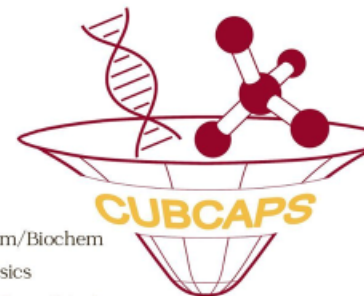
CUBCAPS

Contact your Student Society

- **Concordia Undergraduate Biochemistry, Chemistry and Physics Society**
- Come meet CUBCAPS in their academic and social events to learn more about the science and enjoy some activities during the semester, including;
 - General assemblies to get informed of upcoming events and take votes about decisions affecting the students of Chemisry, Biochemistry and Phy
 - Research symposiums
 - Game nights, Halloween Festival, Tea time
 - Updates of interesting events from other associations
- <https://www.instagram.com/cubcaps/>
- cubcaps@asfa.ca
- Linktree with all our socials: 
- Don't hesitate to come to us!

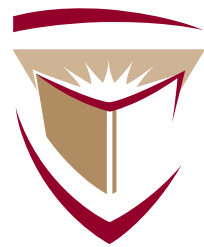
LINK IN THE BIO

JOIN CUBCAPS



- President
- VP Finance
- VP External
- VP Internal for Chem/Biochem
- VP Internal for Physics
- VP Academics for Chem/Biochem
- VP Academics for Physics
- VP Socials

DEADLINE TODAY!



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