



ORIGINAL COURSE IMPLEMENTATION DATE: September 2026
 REVISED COURSE IMPLEMENTATION DATE:
 COURSE TO BE REVIEWED (six years after UEC approval): April 2032
 Course outline form version: 06/18/2021

OFFICIAL UNDERGRADUATE CROSS-LISTED OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: CHEM 404	Number of Credits: 3 Course credit policy (105)
Course Full Title: Biomembranes Course Short Title: Biomembranes	
Faculty: Faculty of Science	Department (or program if no department): Chemistry
Official Course Outline: This is a cross-listed course. Please refer to BIOC 404 for the official course outline.	
Calendar Description: Focuses on the structure and functions of biological membranes and their protein and lipid components. Emphasis is placed on techniques used to study membranes, the use of model systems, and biomedical applications of lipid nanoparticle systems based on membrane structure. Note: This course is offered as BIOC 404 and CHEM 404. Students may take only one of these for credit. Note: Students with credit for CHEM 412F cannot take this course for further credit.	
Prerequisites (or NONE):	BIO 320/BIOC 320 or BIOC 350/CHEM 350.
Corequisites (if applicable, or NONE):	None.
Pre/corequisites (if applicable, or NONE):	None.
Antirequisite Courses (<i>Cannot be taken for additional credit.</i>) Former course code/number: CHEM 412F Cross-listed with: BIOC 404 Equivalent course(s): <i>(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)</i>	Transfer Credit (See bctransferguide.ca) Transfer credit already exists: No Submit outline for (re)articulation: No <i>(If yes, fill in transfer credit form.)</i>
Department approval	Date of meeting: December 11, 2025
Faculty Council approval	Date of meeting: February 6, 2026
Undergraduate Education Committee (UEC) approval	Date of meeting: April 24, 2026