

Guide to Undergraduate Programs in Chemistry (2023/24) (rev. 08/2023)

	20 Credit Honours (accredited)	20 Credit Major (accredited)	Combined Honours 1 ^o subject = Chem	Double Major 1 ^o subject = Chem	15 Credit with Minor	
Required Classes for a BSc.	Math 1000 & 1010			Math 1000 & 1010 or 1060		
	Writing Class (see Academic Calendar)					
	Language/Humanities (see Academic Calendar; often doubles as Writing Class)					
	Social Science (see Academic Calendar)					
Classes required by Chemistry	Physics 1190 or 1310 & Physics 1290 or 1320		---	---	---	
	Math 2001	Math/Stat/CS†				
	Math 1030	Math/Stat/CS†				
Required Chemistry Classes	Chem 1011/1012 or 1021/1022					
	Chem 2101					
	Chem 2201					
	Chem 2301			Chem 2301 or Chem 2304		
	Chem 2304					
	Chem 2401			Chem 2401		
	Chem 2402					
	Chem 3103		Chem Elective (3/4XXX)	Chem Elective (3/4XXX)	Chem Elective (2/3/4XXX)*	
	Chem 3203 (or 3201)		Chem Elective (3/4XXX)	Chem Elective (3/4XXX)	Chem Elective (2/3/4XXX)*	
	Chem 3401 or 3404		Chem Elective (3/4XXX)	Chem Elective (3/4XXX)	Chem Elective (2/3/4XXX)*	
	Chem 3601		Chem Elective (3/4XXX)	Chem Elective (3/4XXX)	Chem Elective (2/3/4XXX)*	
	Chem 3301	Chem 3305	Chem Elective (3/4XXX)	Chem Elective (3/4XXX)	Chem Elective (2/3/4XXX)*	
	Chem 4902/4903	Chem Elective (2/3/4XXX)*	Chem Elective (3/4XXX)	Chem Elective (3/4XXX)	Chem Elective (2/3/4XXX)*	
	Chem Elective (2/3/4XXX)*	Chem Elective (2/3/4XXX)*	Chem. + Major2 credits >1000 = 11-14 (min. 5 in Maj. 2) Chem. credits above 2000 ≥ 3 Major2 credits above 2000 ≥ 3 Honours project in one of subjects. Complete an honours application form. Contact your Advisor		Chem. + Major2 credits >1000 = 10-14 (min. 5 in Maj. 2) Chem. credits >1000 = 5-9 Chem. credits above 2000 ≥ 3 Major2 credits above 2000 ≥ 3 Chem. credits above 1000 must be ≥ Major2	
	Chem Elective (2/3/4XXX)*	Chem Elective (2/3/4XXX)*				
	Chem Elective (2/3/4XXX)*	Chem Elective (3/4XXX)				
	Chem Elective (2/3/4XXX)*	Chem. credits >1000 = 7.5-10 >2000 ≥ 4 Total credits >1000 ≥ 12 GPA ≥ 2.00				
	Chem Elective (2/3/4XXX)*					
	Chem Elective (2/3/4XXX)*					
	Complete an honours application form. Contact your Advisor					
Chem. credits >1000 = 3-6 (Chem 2441 and 2488 excluded) Total credits above 1000 ≥ 7 GPA ≥ 2.00		Chem. credits >1000 = 3-6 (Chem 2441 and 2488 excluded)				
		Total credits above 1000 ≥ 7				
		GPA ≥ 2.00				

† Refers to one-half credit in MATH 2XXX or 1030, Statistics XXXX, or CSCI 1100, 1105, 1110, or 2202

* **Important Note:** CHEM 2441 and CHEM 2488 do not count as chemistry electives

Key Points to Note:

- Minimum GPA for graduation is 2.00 for a major, 3.00 for honours (student must be in good standing).
- Minimum grade for credit for a Chemistry class (as a Chemistry requirement or elective) is D for majors, C for honours.
- Unless otherwise stated, a C- will be the minimum pre-requisite grade for any Chemistry class (2000 level or above).

Program Notes:

- Double Majors and Combined Honours can include both Science and Arts subjects.
- A BA in Chemistry is also available- see an advisor.
- Certificates in Materials Science and Medicinal Chemistry are available.
- A Minor in Chemistry is available.