

	A	B	C	D
1	<b>Chemistry Prerequisites 2026-27</b>			
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4	<b>Course Title</b>	<b>Prerequisites</b>		
5	CHEM 1190 Fundamental Chemistry	NS Grade 11 Chemistry or equivalent		
6	CHEM 1210 General Chemistry I	NS Grade 12 Chemistry and NS Grade 12 Mathematics or equivalent		
7	CHEM 1211 General Chemistry II for Physical Science	CHEM 1210 and MATH 1210 (which may be taken concurrently)		
8	CHEM 1212 General Chemistry II for Life Science	CHEM 1210 and 3 credit hours in CSCI or MATH (except MATH 1202 and MATH 1203)(which may be taken concurrently)		
9	CHEM 1213 General Chemistry II for Engineering	CHEM 1210 and MATH 1210 (which may be taken concurrently)		
10	CHEM 1221 Chemicals	N/A		
11	CHEM 1251 Food and You	N/A		
12	CHEM 2100 Green Chemistry	CHEM 1211, CHEM 1212 or CHEM 1213		
13	CHEM 2312 Physical Chemistry I	CHEM 1211, CHEM 1212 or CHEM 1213, MATH 1210 and MATH 1211 ( which may be taken concurrently)		
14	CHEM 2313 Physical Chemistry II	CHEM 1211, CHEM 1212 or CHEM 1213 and MATH 1211		
15	CHEM 2332 Intro Analytical Chem: Wet Methods	CHEM 1211, CHEM 1212 or CHEM 1213		
16	CHEM 2333 Intro Analytical Chem: Electrochemistry	CHEM 2332		
17	CHEM 2344 Organic Chemistry I	CHEM 1211, CHEM 1212 or CHEM 1213		
18	CHEM 2345 Organic Chemistry II	CHEM 2344		
19	CHEM 2346 Organic Chemistry for Life Sciences	CHEM 1211, CHEM 1212 or CHEM 1213		
20	CHEM 3322 Inorganic Chemistry I	12 credit hours in CHEM at the 2000-level		
21	CHEM 3398 Undergraduate Research I	Three of the following: CHEM 2313, CHEM 3424, CHEM 2345 or CHEM 2333		
22	CHEM 3399 Undergraduate Research II	CHEM 3398		
23	CHEM 3412 Intro Computational Chemistry	CHEM 2313, CHEM 2345 and MATH 1211		
24	CHEM 3415 Polymers	CHEM 2312 and CHEM 2313		
25	CHEM 3424 Inorganic Chemistry II	CHEM 3322		
26	CHEM 3432 Instrumental Analysis I: Separations	CHEM 2333		
27	CHEM 3443 Organic Reaction Mechanisms	CHEM 2345		
28	CHEM 3445 Organic Spectroscopy	CHEM 2345 or a minimum grade of B in CHEM 2346		
29	CHEM 3451 Introductory Biochemistry	CHEM 2345 or CHEM 2346		
30	CHEM 3473 Environmental Chemistry I	48 credit hours including one of: CHEM 2332 or ENVS 2400 or GEOL 3454		
31	CHEM 4412 Quantum Chemistry	CHEM 2312, CHEM 2313 and MATH 2311		
32	CHEM 4413 Physical Chemistry III	CHEM 2312, CHEM 2313 and MATH 2311		
33	CHEM 4414 Symmetry & Chemical App of Group Theory	CHEM 3322 and 3 credit hours in MATH at the 2000-level or higher		
34	CHEM 4421 Organometallic Chemistry	CHEM 3424 or permission of the instructor		
35	CHEM 4422 Advanced Topics in Inorganic Chemistry	CHEM 3424 or permission of the instructor		
36	CHEM 4433 Instrumental Analysis II	CHEM 2333		
37	CHEM 4444 Synthesis in Organic Chemistry	CHEM 2345		
38	CHEM 4452 Biochemistry: Intermediary Metabolism	CHEM 3451		
39	CHEM 4453 Biochemistry: Secondary Metabolism II	CHEM 3451		
40	CHEM 4499 Selected Research Topics in Chemistry	Enrolment is permitted to declared Chemistry Majors or Honours students who have successfully completed twenty-four (24) credit hours in CHEM		
41	CHEM 4500 Research Thesis	Honours standing		