

Science Profile (120 extended credit programs, i.e. non-CEGEP entry, only)

Chemistry:	CHEM 205 & 206 (General Chemistry I & II)
Biology:	BIOL 201 (General Biology)
Math:	MATH 201 (Elementary Functions), MATH 202 (College Algebra, <i>required for Mature Students only</i>), MATH 203 (Calculus I), MATH 205 (Calculus II)
Physics:	PHYS 204/224 (Mechanics and associated lab course), PHYS 205/225 (Electricity & Magnetism and associated lab course), PHYS 206/226 (Waves and Modern Physics & associated lab course)

Chemistry Major = core program only (45 credits = 15 courses)

Analytical Chemistry:	CHEM 217 (Introductory Analytical Chemistry I, offered Fall only) CHEM 218 (Introductory Analytical Chemistry II, offered Winter only) CHEM 312 (Intermediate Analytical Chemistry, offered Fall and even-year Summers) <i>Exemptions for 217 AND 218 PLUS THE LAB PORTION OF 312 possible for students entering from Dawson's Laboratory Technology – Analytical Chemistry program</i>
Organic Chemistry:	CHEM 221 (Introductory Organic Chemistry I, offered Fall, Winter and alternating Summers) CHEM 222 (Introductory Organic Chemistry II, offered Fall and Winter) CHEM 324 (Organic Reactions, offered Fall only) CHEM 325 (Organic Structure and Stereochemistry, offered Winter and odd-year Summers) <i>Exemptions for CHEM 221 and CHEM 222 possible for CEGEP students</i>
Physical Chemistry:	CHEM 234 (thermodynamics, offered Fall and Winter) CHEM 235 (kinetics, offered Fall and Winter) CHEM 333 (quantum chemistry, offered Winter only)
Inorganic Chemistry:	CHEM 241 (Introduction to Periodicity and Valence Theory, offered Fall and Winter) CHEM 242 (Chemistry of the Main Group Elements, offered Winter only) CHEM 341 (Transition metals, offered Fall only)
Biochemistry:	CHEM 271 (Biochemistry I, offered Fall, Winter and alternating Summers)
Spectroscopy:	CHEM 293 (Organic Spectroscopy, offered every term)

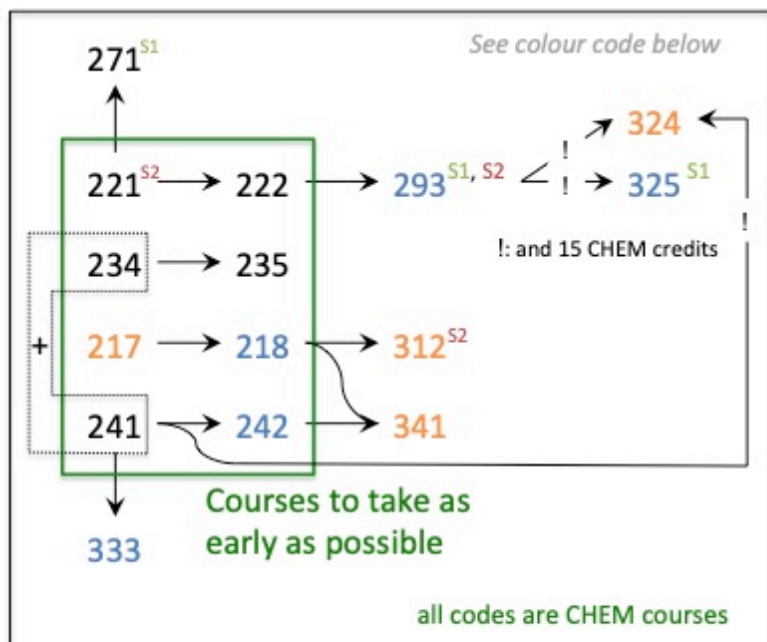
Course numbering system

First digit gives level	200 = introductory	300 = intermediate	400 = advanced		
Middle digit denotes discipline	1 = analytical,	2 = organic,	3 = physical,	4 = inorganic,	5 = multidisciplinary,
	7 = biochemistry,	9 = spectroscopy/spectrometry			
Last digit gives sequence					

Typical Chemistry Major Sequence*

	Fall	Winter
Year 1	CHEM 217 CHEM 221 CHEM 234 elective elective	CHEM 218 CHEM 222 CHEM 235 elective elective
Year 2	CHEM 241 CHEM 312 elective elective elective	CHEM 242 CHEM 293 CHEM 333 elective elective
Year 3	CHEM 324 CHEM 341 elective elective elective	CHEM 325 CHEM 271 elective elective elective

* All courses are 3 credits except where noted. There are forty five (45) credits of electives that must include six credits of general education courses and fifteen credits of out of program electives. The remainder may be freely chosen (chemistry, other science or non-science). Note: some courses can be taken in Summer or online.

Chemistry Major Course Flowchart


Legend: 221 $\xrightarrow{\text{is a prerequisite for}}$ 222

Summer course offerings:

Summer 1 ODD years	alternating with	Summer 2 EVEN years
271		221
293		293
375		375
325	←-----→	312

Tentative Schedule

Terms when courses are traditionally offered:

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