

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)

Biochemistry Core Program (45 credits = 15 courses)

Analytical Chemistry:	CHEM 217 (Introductory Analytical Chemistry I, offered Fall only) CHEM 218 (Introductory Analytical Chemistry II, offered Winter only) <i>Exemptions for both courses 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 and Winter) <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)
Inorganic Chemistry:	CHEM 241 (Introduction to Periodicity and Valence Theory, offered Fall and Winter)
Biochemistry:	CHEM 271 (Biochemistry I, offered Fall, Winter and alternating Summers) CHEM 375 (Biochemistry II, offered Fall, Winter and Summer)
Spectroscopy:	CHEM 293 (Organic Spectroscopy, offered Winter and Summer)
Biology:	BIOL 261 (Molecular and General genetics), BIOL 266 (Cell Biology), BIOL 364 (Cell Physiology), BIOL 368 (Genetics and Cell Biology Lab); all offered Fall and Winter

Biochemistry Specialization = core (above) PLUS additional credits at the advanced level

Analytical Chemistry:	CHEM 312 (Intermediate Analytical Chemistry, Fall and alternating Summers) <i>Lab exemption possible for students entering from Dawson's Laboratory Technology – Analytical Chemistry program</i>
Organic Chemistry:	CHEM 325 (Organic Structure and Stereochemistry, Winter and alternating Summers)
Physical Chemistry:	CHEM 335 (Biophysical Chemistry, offered Winter only)
Biology:	BIOL 367 (Molecular Biology, offered Fall and Winter)
Advanced Labs:	CHEM 477 (Advanced Laboratory in Biochemistry, offered Fall only) BIOL 466 (Advanced Techniques in Molecular Biology, offered Winter only)
Biochemistry electives:	2 x 400-level courses (CHEM 4XX) chosen from advanced topics courses in biochemistry
Research project:	optional CHEM 419 (6 credits, Independent Study in an active research lab of one of our faculty members, 1 or 2 terms, all terms available, presented as a conference-style poster). If taken, replaces one advanced lab course (CHEM 477 or BIOL 466) and one elective.

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,
Last digit gives sequence	7 = biochemistry,	9 = spectroscopy/spectrometry			

