Concordia

BIOCHEMISTRY MAJOR

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

Chemistry: CHEM 205 & 206 (General Chemistry I & II)

Biology: BIOL 201 (Introductory Biology)

Math: MATH 201 (Elementary Functions), MATH 202 (College Algebra, required for Mature

Students only), MATH 203 (Calculus I), MATH 205 (Calculus II)

Physics: PHYS 204/224 (Mechanics and associated lab course), PHYS 205/225 (Electricity and

Magnetism & associated lab course), PHYS 206/226 (Waves and Modern Physics &

associated lab course)

Biochemistry 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)

Exemptions for both courses possible for students entering from Dawson's Laboratory

Technology – Analytical Chemistry program

Organic Chemistry: CHEM 221 (Introductory Organic Chemistry I, offered Fall, Winter and some Summers)

CHEM 222 (Introductory Organic Chemistry II, offered Fall and Winter)

CHEM 324 (Organic Reactions, offered Fall only)

Exemptions for CHEM 221 and CHEM 222 possible for CEGEP students

Physical Chemistry: CHEM 234 (Thermodynamics, offered Fall and Winter)

CHEM 235 (Kinetics of Chemical Reactions, 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 odd-year Summers)

CHEM 375 (Biochemistry II, offered Winter and Summer)

Spectroscopy: CHEM 293 (Spectroscopy and Structure of Organic Compounds, offered every term)

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

Course numbering system

First digit gives level 200 = introductory 300 = intermediate 400 = advanced

Middle digit 1 = analytical, 2 = organic, 3 = physical, 4 = inorganic, 5 = multidisciplinary,

denotes discipline 7 = biochemistry, 9 = spectroscopy/spectrometry

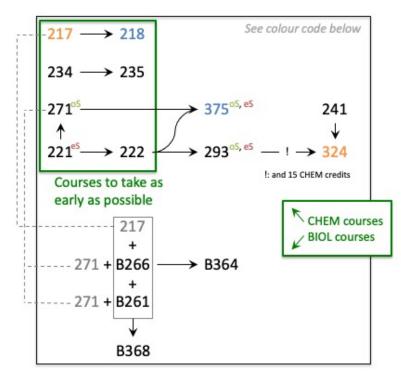
Last digit gives sequence

Typical Biochemistry Major Sequence*

	Fall	Winter
	CHEM 217	CHEM 218
н	CHEM 221	CHEM 222
Year	CHEM 234 or BIOL 261	CHEM 271
>	elective	elective
	elective	elective
Year 2	CHEM 234 or BIOL 261	CHEM 235
	CHEM 241	CHEM 293
	BIOL 266	CHEM 375
	elective	elective
	elective	elective
Year 3	CHEM 324	BIOL 368
	BIOL 364	elective
	elective	elective
	elective	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.

Biochemistry Major Course Flowchart



Terms when courses are traditionally offered:

Fall & Winter
 Fall only
 Winter only
 and sometimes on:

 oS: Summer ODD years
 eS: Summer EVEN years

Legend: 221 → 222

Additional courses:

 Organic replacement(s) if exempt from 221 &/or 222

Summer course offerings:

ODD years	alternating with	eS EVEN years
271		221
293		293
375		375
325	<	> 312
	Tentative Schedu	le

Up-to-date info on Class Schedule Guide & Dept website