

4-Year Bachelor of Science

Biology



Emphasis in Cell and Molecular Biology

Program Planner 2015-2016

While your degree planning is directed by the specific requirements for your chosen concentration and minor, it is also driven by your own personal interests; therefore, it is most effective when you are the master of your own academic planning.

Please be aware of all prerequisites, corequisites, and other registration regulations for all courses required within your degree. Program planning can be very effective to identify potential courses needed in addition to specific requirements. Refer to section 4.0 in the *Concordia University of Edmonton Calendar* for more information regarding registration policies.

You are responsible for registering in and completing the courses necessary to obtain your degree. The *Concordia University of Edmonton Calendar* is the final authority regarding program requirements and academic regulations.

All students in a Bachelor of Science program must complete the Core Requirements as outlined in the table below.

Category	Credits	Courses that Fulfill Requirement
Humanities	6	ENG 100, or ENG 111&112
Sciences	6	Any BES, BIO, BIOCH, CH, CMPT, EAS, ENSC, IT, MAT (excluding MAT 220), or PHY courses
Social Sciences	6	Any ECO, HIS, POEC, PSCI, PSY, or SOC courses
Foundational Studies: Religious Studies	3	Any REL courses
Foundational Studies: Ethics, Philosophy or Religious Studies	3	Any PHIL, or REL courses, or ENVH 523, MGT 374, MGT 474, MAT 220, PSCI 361, or PSY 305
Leadership: Communication	3	Any ARTH, DAN, DRA, GERM, GRK, HEBR, LAT, MUS (excluding MUS 630 and 631), MUP, SPA, or WRI courses, or BIO 227, ENSC 227, FR 101, FR 102, FR 250, FR 303, FR 372, HIS 290, MGT 310, PSY 319, PSY 332, PSY 333, PSY 405, SOC 344, or UFDN 199
Leadership: Leadership Service, or Management	3	Any RELA courses, or BIO 480, BUS 110, DRA 325, DRA 350, DRA 383, DRA 425, DRA 450, DRA 483, ENSC 485, FIN 220, HIS 221, HRM 220, LDR 310, LDR 320, MUS 263, MUS 321, MUS 361, MUS 395&396, PSCI 101, PSY 486, or PSY 496

Core course requirements may be fulfilled through both concentration and minor requirements; however, the same course may not be counted toward both concentration and minor requirements. (Example: ENG 100 or ENG 111 and 112 taken toward an English minor simultaneously fulfill the Humanities core requirement).

Major Requirements

Emphasis in Cell and Molecular Biology: 54-60 credits required to include:

- a) BES 107 and 108
- b) BIO 201, 207, and 265
- c) BIO 208 and 227
- d) 12 credits from BIO 302, 307, 350, 355, 366, or 465
- e) BIO 470, 480, 488 and 489
- f) 9-15 credits of unspecified senior-level Biology courses

In addition to the above courses, students must complete:

- g) MAT 151 and 3 credits of unspecified Mathematics courses
- h) CH 101
- i) CH 102
- j) CH 261
- k) CH 263
- l) BIOCH 200

Sample Program

Below is a sample sequence of courses for your degree. Keep in mind that this is only an example; you may find that a different sequence works best for you.

Note: the 4-year Bachelor of Science degree requires a minimum of 66 credits in Faculty of Science. The science electives in the planner below are for Biology Majors who have a Faculty of Arts minor.

	Fall Semester	Winter Semester
Year 1	BES 107 or 108 CH 101 or 261† MAT 151 ENG 100 or 111 Minor	BES 107 or 108 CH 101, 102, 261, or 263† MAT ENG 100 or 112 Minor
Year 2	BIO 201 BIO 208 BIOCH 200 CH 101, 102, 261, or 263† Social Science	BIO 207 BIO 227 BIO 265 CH 102 or 263 Social Science
Year 3	BIO 470 BIO (Requirement d) BIO (Requirement f) Minor Elective	BIO 480 BIO (Requirement d) BIO (Requirement f) Minor Elective
Year 4	BIO 488 BIO (Requirement d) Minor Foundational Studies: Religious Studies Elective	BIO 489 Minor Foundational Studies: Ethics, Philosophy or Religious Studies Elective Elective

† Indicates prerequisite planning for BIOCH 200.