

4-Year Bachelor of Science-Biology

Emphasis in Cell and Molecular Biology



Program Planner 2026-2027

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 also responsible for registering in and completing the courses necessary to obtain your degree as per [section 10.0](#). The *Concordia University of Edmonton Calendar* is the final authority regarding program requirements and academic regulations.

Major Requirements

54-60 credits required, to include:

- a. BES 107 and 108
- b. BIO 201 and 207
- c. BIO 265
- d. ECOL208 or BIO 208 and BIO 227
- e. 12 credits from BIO 302, 307, 344, 350, 355, 366, 371, 421 or 465
- f. BIO 470 and 480
- g. BIO 488 and 489
- h. 9-15 credits of unspecified senior-level BIO courses

In addition to the above courses, students must complete:

- i. CH 101 and 102
- j. CH 261 and 263
- k. BIOCH200
- l. MAT 151 and 3 credits of unspecified MAT courses
- m. 6 credits of courses offered by the Departments of Social Sciences or Psychology (CNST, ECO, HIS, INDG, POEC, PSCI, PSY, SOC)
- n. 3 credits of ENG courses
- o. 3 additional credits of courses offered by the Department of Literature and Languages, Religious Studies and Philosophy, or Fine Arts (ARAB, ARTH, CHIN, CLAS, CLIT, CREE, DAN, DRA, ENG, FR, GERM, GRK, HEBR, LAT, MUS, MUP, MUPB, MUPE, MUPG, MUPH, MUPK, MUPP, MUPS, MUPV, MUPW, MUED264, PHIL, POPC, REL, SPA, WRI)
- p. AIT 100

Permissible minors:

All minors listed in [section 10.6](#), other than Biology and Environmental Science.

Sample Program

Below is a sample sequence of courses for your degree. Keep in mind that this is only an example; you may find a different sequence works best for you. Also note that not all courses can be offered every semester. So, please check our [Course Timetables](#) for course availability.

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 indicated for those who choose to complete a Faculty of Arts minor.

The normal full course load for undergraduate programs is 30 credits total for the Fall/Winter Session. However, it is not mandatory that a student take 15 credits per semester to be considered a full-time student. If you would like to take less courses each semester that is also acceptable - it will simply take you longer to graduate. Please be advised that you need to take 9 credits per Fall / Winter semester to be considered full time. We have highlighted (+) a few courses for your first year that we suggest you prioritize for registration, should you choose to take less than 15 credits per semester.

	Fall Semester	Winter Semester
Year 1	+AIT 100 +BES 107 +CH 101† ENG 101 or 111 or 120 +MAT 151 3 credits from ARAB, ARTH, CHIN, CLAS, CLIT, CREE, DAN, DRA, ENG, FR, GERM, GRK, HEBR, LAT, MUS, MUP, MUPB, MUPE, MUPH, MUPK, MUPP, MUPS, MUPV, MUPW, MUED264, PHIL, POPC, REL, SPA or WRI	+BES 108 +CH 102 +CH 261† MAT Minor
Year 2	BIO 201 BIO 208 or ECOL208 BIOCH200 Social Science or Psychology Minor	BIO 207 BIO 227 BIO 265 CH 263 Social Science or Psychology
Year 3	BIO 470 BIO (Requirement e) BIO (Requirement e) Minor Elective	BIO 480 BIO (Requirement e) BIO (Requirement e) Minor Elective
Year 4	BIO 488 Senior BIO Senior BIO Minor Elective	BIO 489 Senior BIO Minor Elective Elective

† Indicates prerequisite planning for BIOCH200.