

Student Name: _____ Student Number: _____

Date Completed: _____ Credits to Complete: _____ Advanced Standing: _____

B.Ed. Secondary Science & Technology 2019-20 (150 Credits)

Required Science Course (15 credits)

BIOL 206 Methods in Biology of Organisms
CHEM 281 Inorganic Chemistry 1
EDTL 520 Persp. on Knowledge in Math & Sci
EDTL 525 Teaching Science and Technology
MATH 203 Principles of Statistics 1

Core Complementary Science Courses (10 credits)

3 credits from:

BIOL 200 Molecular Biology
LSCI 202 Molecular Cell Biology

One of:

CHEM 203 Survey of Physical Chemistry
CHEM 213 Introductory Physical Chemistry 1:
Thermodynamics

One of:

CHEM 212 Introductory Organic Chemistry 1 (4 cr)
CHEM 232 Organic Chemistry Principles (4 cr)

Complementary Science Courses (27 credits)

A minimum of 9 credits must be 300+ level; courses chosen as follows, see revers for course lists.

3 cr Living World _____
3 cr Earth and Space _____
3 cr Environment _____
3 cr Technological World _____
3 cr from any compl. list _____
3 cr from any compl. list _____
3 cr from any compl. list except Tech _____
3 cr from any compl. list except Tech _____
3 cr from any compl. list except Living _____

Students should choose complementary Science courses from the area in which they'd like to teach, where possible.

Required Courses (60 credits)

EDEC 215 English Exam for Teacher Certification (0 cr)
EDPE 300 Educational Psychology
EDEC 233 Indigenous Education
EDEC 260 Philosophical Foundations
EDEC 201 First Year Professional Seminar (1 cr)
EDFE 200 First Field Experience (2 cr)
EDPI 341 Instruction in Inclusive Schools
EDEC 262 Media, Technology and Education
EDES 335 Teaching Secondary Science 1
EDPI 309 Diverse Learners
EDEC 254 Second Professional Seminar Secondary (1 cr)
EDFE 254 Second Field Experience Secondary
EDEC 351 Third Professional Seminar Secondary (2 cr)
EDES 350 Classroom Practices
EDFE 351 Third Field Experience Secondary (8 cr)
EDEC 247 Policy Issues in Quebec Education
EDEC 404 Fourth Professional Seminar Secondary
EDES 435 Teaching Secondary Science 2
EDFE 451 Fourth Field Experience Secondary (7 cr)
EDPE 304 Measurement and Evaluation

Complementary Courses (3 Credits)

3 credits from:

EDEC 248 Equity and Education
EDEC 249 Global Education and Social Justice

Elective Courses (6 Credits)

Freshman Courses (30 credits)

30 credits completed in UO / CEGEP / Advanced Standing

Complementary Science Courses List

For the full list of course titles, descriptions and prerequisites see the B.Ed. Secondary Science and Technology [eCalendar](#) entry.

Living World Complementary

Cell and Molecular Biology

BIOL 201 BIOL 300 BIOL 301 BIOL 313
BIOL 202

Human and Organismal Biology

BIOL 205 EDKP 395 NUTR 307 PHGY 210
EDKP 292 NUTR 207 PHGY 209

Populations, Ecosystems and Evolution

BIOL 215 BIOL 305 BIOL 331 ENVB 305
BIOL 240 BIOL 308 BIOL 352 EPSC 334
BIOL 304 BIOL 310

Environment Complementary

ENVR 200 ENVR 203 GEOG 200 GEOG 205
ENVR 201 ENVR 301 GEOG 203 GEOG 221

Technological World Complementary

COMP 102* COMP 206 COMP 364
COMP 202** COMP 280* MATH 204

* Students may take either COMP 102 or COMP 280 not both

**Credit will not be given for COMP 102 if taken concurrently with or after COMP 202

Earth and Space Complementary

ATOC 214 EPSC 201 EPSC 225 ESYS 300
ATOC 215 EPSC 203 EPSC 233 ESYS 301
ATOC 219 EPSC 210 EPSC 320 GEOG 272
ATOC 309 EPSC 212 EPSC 330 GEOG 321
ATOC 315 EPSC 220 EPSC 350 PHYS 214
ENVR 202 EPSC 221 ESYS 200

Material World Complementary

CHEM 222 MATH 222 PHYS 258 PHYS 342
CHEM 267 PHYS 224 PHYS 271 PHYS 432
CHEM 273 PHYS 230 PHYS 328 PHYS 434
CHEM 302 PHYS 232 PHYS 331 PHYS 439
CHEM 319 PHYS 241 PHYS 333 PHYS 446
CHEM 381 PHYS 242 PHYS 339 PHYS 447
CHEM 392 PHYS 257 PHYS 340

B.Ed. Secondary Science and Technology

4-Year Program Overview
Admitted Fall 2019

Year 1	FALL (15 cr)	EDEC 248 Equity and Education OR EDEC 249 Global Ed. & Social Justice	EDPE 300 Educational Psychology	Subject Area Course	Subject Area Course	Subject Area Course	EDEC 215 English Exam for Teach. Cert. (0 cr)
	WINTER (15 cr)	EDEC 233 Indigenous Education	EDEC 260 Philosophical Foundations	Subject Area Course	Subject Area Course	Subject Area Course	
	SUMMER (3 cr)	EDEC 201 First Year Profes. Sem. (1 cr) <i>C - EDFE 200</i>	EDFE 200 First Field Experience (2 cr) <i>C - EDEC 201</i>				EDEC 215 English Exam for Teach. Cert. (0 cr)
Year 2	FALL (15 cr)	EDEC 262 Media, Technology & Education	EDPI 341 Instruction in Inclusive Schools <i>P - EDPE 300</i>	Subject Area Course	Subject Area Course	Subject Area Course	EDEC 215 English Exam for Teach. Cert. (0 cr)
	WINTER (12 cr)	* EDES 335 Teaching Secondary Science 1 <i>P - 18 cr of Science Subj Area</i>	EDPI 309 Diverse Learners <i>P - EDPI 341</i>	Subject Area Course	Subject Area Course		
	SUMMER (4 cr)	EDEC 254 Second Profes. Seminar (1 cr) <i>C - EDFE 254</i>	EDFE 254 Second Field Experience <i>P - EDFE 200 / C - EDEC 254</i>				EDEC 215 English Exam for Teach. Cert. (0 cr)
Year 3	FALL (13 cr)	EDEC 351 Third Profes. Seminar (2 cr) <i>P - EDEC 254</i> <i>C - EDES 350, EDFE 351</i>	EDES 350 Classroom Practices <i>C - EDEC 351, EDFE 351</i>	** EDFE 351 Third Field Experience (8 cr) <i>P - 24 cr of Science Subj Area</i> <i>P - EDFE 254 / C - EDEC 351, EDES 350</i>			
	WINTER (15 cr)	EDTL 525 Teaching Science and Tech. <i>P - EDES 335</i>	Subject Area Course	Subject Area Course	Subject Area Course	Elective	
	SUMMER						
Year 4	FALL (12 cr)	EDEC 247 Policy Issues in QC Education	EDTL 520 Persp. on Knowledge in Mth/Sci <i>P - 24 cr of Science Subj Area</i>	Subject Area Course	Elective		
	WINTER (16 cr)	EDEC 404 Fourth Year Profes. Seminar <i>P - EDEC 351 / C - EDFE 451</i>	EDES 453 Teaching Secondary Math 2 <i>P - EDES 353</i>	EDFE 451 Fourth Field Experience (7 cr) <i>P - EDFE 351 / C - EDEC 404</i>	^ EDPE 304 Measurement & Evaluation		
	SUMMER						

* Prerequisite: 18 cr of university Science courses at or above the 200 level.

**Prerequisite: 24 cr of university Science courses at or above the 200 level.

^ Can be completed fall or winter U4



For complete course listings, course descriptions and prerequisites, see the calendar:

<https://mcgill.ca/study/2019-2020/faculties/education/undergraduate/programs/bachelor-education-bed-secondary-science-and-technology>

B.Ed. Secondary Science and Technology

2-Year Program Overview
Admitted Fall 2019

Year 3	FALL (15 cr)	EDEC 201 First Year Profes. Sem. (1 cr) EDFE 200 First Field Experience (2 cr) <i>C - EDEC 201 & EDFE 200</i>	EDEC 247 Policy Issues in QC Education	EDEC 248 Equity and Education OR EDEC 249 Global Ed. & Social Justice	EDPE 300 Educational Psychology	EDPI 341 Instruction in Inclusive Schools <i>P - EDPE 300</i> <i>*requires permit, contact your advisor*</i>	EDEC 215 English Exam for Teach. Cert. (0 cr)
	WINTER (15 cr)	EDEC 233 Indigenous Education	EDEC 260 Philosophical Foundations	EDEC 262 Media, Technology & Education	* EDES 335 Teaching Secondary Science 1 <i>P - 18 cr of Science Subj Area</i>	EDPI 309 Diverse Learners <i>P - EDPI 341</i>	
	SUMMER (4 cr)	EDEC 254 Second Profes. Seminar (1 cr) <i>C - EDFE 254</i>	EDFE 254 Second Field Experience <i>P - EDFE 200 / C - EDEC 254</i>				
Year 4	FALL (13 cr)	EDEC 351 Third Profes. Seminar (2 cr) <i>P - EDEC 254</i> <i>C - EDES 350, EDFE 351</i>	EDES 350 Classroom Practices <i>C - EDEC 351, EDFE 351</i>	** EDFE 351 Third Field Experience (8 cr) <i>P - 24 cr of Math Subj Area</i> <i>P - EDFE 254 / C - EDEC 351, EDES 350</i>			
	WINTER (16 cr)	EDEC 404 Fourth Year Profes. Seminar <i>P - EDEC 351 / C - EDFE 451</i>	EDFE 451 Fourth Field Experience (7 cr) <i>P - EDFE 351 / C - EDEC 404</i>	EDES 435 Teaching Secondary Science 2 <i>P - EDES 335</i>	^ EDPE 304 Measurement & Evaluation		
	SUMMER						

* Prerequisite: 18 cr of university MATH courses at or above the 200 level.

**Prerequisite: 24 cr of university MATH courses at or above the 200 level.

^ Can be completed fall or winter U4



For complete course listings, course descriptions and prerequisites, see the calendar:

<https://mcgill.ca/study/2019-2020/faculties/education/undergraduate/programs/bachelor-education-bed-secondary-science-and-technology>