

Student Name: \_\_\_\_\_ Student Number: \_\_\_\_\_

Date Completed: \_\_\_\_\_ Credits to Complete: \_\_\_\_\_ Advanced Standing: \_\_\_\_\_

## **B.Ed. Secondary Science & Technology 2021-22(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

### **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 QC and Indigenous Ed.  
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

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

## 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

## Bachelor of Education Secondary Science and Technology



### 4-Year Program Overview Admitted - Fall 2021

Year 1 - Fall	Year 2 - Fall	Year 3 - Fall	Year 4 - Fall
EDEC 215 English Exam for Teach Cert (0 cr) EDPE 300 Educational Psychology Subject Area Course Subject Area Course Subject Area Course <i>one of:</i> EDEC 248 Equity and Education EDEC 249 Global Ed. & Social Justice	EDPI 341 Instruction in Inclusive Schools EDEC 262 Media, Technology & Education Subject Area Course Subject Area Course Subject Area Course	EDEC 351 Third Professional Seminar (2 cr) EDES 350 Classroom Practices **EDFE 351 Third Field Experience (8 cr)	EDEC 247 Policy Issues in QC Education EDTL 520 Perspec. on Knowledge in Mth/Sc Subject Area Course Elective
<b>15 credits total</b>	<b>15 credits total</b>	<b>13 credits total</b>  <b>C: EDEC 351, EDES 350, EDFE 351</b>	<b>12 credits total</b>
Year 1 - Winter	Year 2 - Winter	Year 3 - Winter	Year 4 - Winter
EDEC 233 Indigenous Education Subject Area Course Subject Area Course Subject Area Course EDEC 260 Phil. of Catholic Ed.	*EDES 335 Teaching Secondary Science 1 EDPI 309 Diverse Learners Subject Area Course Subject Area Course	EDTL 525 Teaching Science and Technology Subject Area Course Subject Area Course Subject Area Course Elective	EDEC 404 Fourth Year Profes. Seminar EDES 435 Teaching Secondary Science 2 EDFE 451 Fourth Field Experience (7 cr) ^ EDPE 304 Measurement & Evaluation
<b>15 credits total</b>	<b>12 credits total</b>	<b>15 credits total</b>	<b>16 credits total</b>  <b>C: EDEC 404 &amp; EDFE 451</b>
Year 1 - Spring	Year 2 - Spring	<div style="border: 2px solid #00AEEF; border-radius: 15px; padding: 10px; width: fit-content; margin: 10px auto;"> <p>* Prereq: 18 credits of university Science courses at or above the 200 level.                      **Prereq: 24 credits of university Science courses at or above the 200 level.                      ^ Can be completed fall or winter U4  <b>one of:</b> depending on availability</p> </div>	
EDEC 201 First Professional Seminar (1 cr) EDFE 200 First Field Experience (2 cr)	EDEC 254 Second Professional Seminar (1 cr) EDFE 254 Second Field Experience		
<b>C: EDEC 201 &amp; EDFE 200</b> <b>3 credits total</b>	<b>C: EDEC 254 &amp; EDFE 254</b> <b>4 credits total</b>		

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

<http://www.mcgill.ca/study/2021-2022/faculties/education/undergraduate/programs/bachelor-education-bed-secondary-science-and-technology>



## Bachelor of Education Secondary Science and Technology



### 2-Year Program Overview Admitted - Fall 2021

Year 3 - Fall		Year 4 - Fall	
EDEC 215	English Exam for Teacher Certification (0 cr)	EDEC 351	Third Professional Seminar (2 cr)
EDEC 201	First Year Professional Seminar (1 cr)	EDES 350	Classroom Practices
EDEC 247	Policy Issues in Quebec Education	** EDFE 351	Third Field Experience (8 cr)
EDFE 200	First Field Experience (2 cr)		
EDPE 300	Educational Psychology		
EDPI 341	Instruction in Inclusive Schools		
<i>one of:</i>			
EDEC 248	Equity and Education		
EDEC 249	Global Ed. & Social Justice		
<b>C - EDEC 201 &amp; EDFE 200</b>		<b>C - EDEC 351, EDES 350, EDFE 351</b>	
<b>15 credits total</b>		<b>13 credits total</b>	
Year 3 - Winter		Year 4 - Winter	
EDEC 233	Indigenous Education	EDEC 404	Fourth Year Professional Seminar
EDEC 262	Media, Technology & Education	EDES 435	Teaching Secondary Science 2
*EDES 335	Teaching Secondary Science 1	EDFE 451	Fourth Field Experience (7 cr)
EDPI 309	Diverse Learners	EDPE 304	Measurement & Evaluation
<i>one of:</i>			
EDEC 260	Philosophical Foundations		
EDEC 261	Philosophy of Catholic Education		
<b>15 credits total</b>		<b>C - EDEC 404 &amp; EDFE 451</b>	
<b>15 credits total</b>		<b>16 credits total</b>	
Year 3 - Spring		<p>* Prereq: 18 credits of university Science courses at or above the 200 level.</p> <p>**Prereq: 24 credits of university Science courses at or above the 200 level.</p> <p><i>one of:</i> depending on availability</p>	
EDEC 254	Second Professional Seminar (1 cr)		
EDFE 254	Second Field Experience		
<b>C - EDEC 254 &amp; EDFE 254</b>		<b>4 credits total</b>	



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

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