

Student Name: _____ Student Number: _____

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

B.Ed Secondary Mathematics 2021-22(150 Credits)

Required Mathematics Subject Area Courses (21 credits)

MATH 222 Calculus 3
MATH 223 Linear Algebra
MATH 228 Classical Geometry
MATH 315 Ordinary Differential Equations
MATH 323 Probability
MATH 324 Statistics
MATH 338 History and Philosophy of Mathematics

Complementary Mathematics Courses (30 or 15 credits)

3 credits from:

MATH 235 Algebra 1
MATH 242 Analysis 1
Should be taken in Year 1 or Year 2

Complete 27 credits from below without an unofficial second teachable subject OR 12 credits with a 15 credit unofficial second teachable subject

COMP 202 Foundations of Programming
COMP 230 Logic and Computability
EDTL 520 Perspectives on Knowledge in Math & Sci
MATH 235 Algebra 1
MATH 236 Algebra 2
MATH 242 Analysis 1
MATH 243 Analysis 2
MATH 314 Advanced Calculus
MATH 316 Complex Variables
MATH 317 Numerical Analysis
MATH 318 Mathematical Logic**
MATH 319 Introduction to Partial Differential Equations
MATH 326 Nonlinear Dynamics and Chaos
MATH 327 Matrix Numerical Analysis
MATH 329 Theory of Interest
MATH 340 Discrete Structures 2
MATH 346 Number Theory
MATH 348 Euclidean Geometry
MATH 417 Linear Optimization
MATH 423 Regression and Analysis of Variance
MATH 447 Introduction to Stochastic Processes
MATH 523 Generalized Linear Models (4 cr)
MATH 524 Nonparametric Statistics (4 cr)
MATH 525 Sampling Theory & Applications (4 cr)
PHIL 210 Introduction to Deductive Logic 1**

***Students cannot receive credit for both*

Required Courses (60 credits)

EDEC 215 English Exam for Teacher Certification
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 353 Teaching Secondary Mathematics 1
EDPI 309 Diverse Learners
EDEC 254 Second Professional Sem. Sec. (1 cr)
EDFE 254 Second Field Experience Secondary
EDEC 351 Third Professional Sem. 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 453 Teaching Secondary Mathematics 2
EDFE 451 Fourth Field Experience Secondary (7 cr)
EDPE 304 Measurement and Evaluation

Complementary Education Courses (3 Credits)

3 credits from:

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

Elective Courses (6 Credits)

EDER 372, EDES 334, EDES 335 OR EDES 361

Freshman Courses (30 credits)

30 credits completed in U0 / CEGEP / Advanced Standing

Unofficial Second Teachable Subject Courses (15 credits)

Complete if only 15 cr of Complementary Math courses taken

See back side for details on Unofficial Second Teachable options.

Unofficial Second Teachable Subject Areas

You may choose between the following areas: English, History & Citizenship, Geography, Ethics and Religious Culture, Biology, Chemistry and Physics. Courses are taken from the list below, with approval from the Advisor.

English

- EDES 366 Literature for Young Adults
- 3 credits from:
- CEAP 250 Research Essay & Rhetoric
 - EDEC 201 Communication in Education
 - EDSL 305 L2 Learning Classroom Sessions
 - EDSL 350 Essentials of English Grammar
 - LING 200 Introduction to the Study of Language
 - LING 201 Introduction to Linguistics
 - LING 355 Language Acquisition 1

And 9 credits as follows from the [English Department website](#) with a minimum of 6 credits at the 300 level or higher

- 6 credits of Literature
- 3 credits of Cultural Studies

OR

- 3 credits of Drama/Theatre

Recommended Method's Course: EDES 361

Geography

- 15 credits from:
- ENVR 202 The Evolving Earth
 - GEOG 200 Geographical Perspectives: World Envr
 - GEOG 205 Global Change: Past, Present & Future
 - GEOG 210 Global Places and Peoples
 - GEOG 216 Geography of the World Economy
 - GEOG 217 Cities in the Modern World
 - GEOG 272 Earth's Changing Surface
 - GEOG 301 Geography of Nunavut
 - GEOG 309 Geography of Canada
 - GEOG 311 Economic Geography
 - GEOG 331 Urban Social Geography

Recommended Method's Course: EDES 334

History & Citizenship

Choose 15 credits of HIST subject courses at the 200 level or higher

Recommended Methods Course: EDES 334

Ethics and Religious Culture

6 credits from:

- EDER 309 The Religious Quest
- RELG 204 Judaism, Christianity and Islam
- RELG 207 Introduction to the Study of Religions
- RELG 309 World Religions & Cultures they Create
- RELG 252 Hinduism and Buddhism

9 credits from:

- CATH 200 Introduction to Catholicism
- EDER 209 Search for Authenticity
- EDER 252 Understanding and Teaching Jewish Life
- EDER 319 Teaching the Holocaust
- EDER 394 Philosophy of God
- EDER 395 Moral Values and Human Action
- EDER 461 Society and Change
- EDER 473 Living with Insight
- EDER 494 Human Rights & Ethics in Practice
- PHIL 230 Introduction to Moral Philosophy 1
- PHIL 237 Contemporary Moral Issues
- RELG 270 Religious Ethics and the Environment

Recommended Method's Course: EDER 372

Biology

Choose 15 credits of BIOL subject courses at the 200 level or higher

Recommended Methods Course: EDES 335

Chemistry

Choose 15 credits of CHEM subject courses at the 200 level or higher

Recommended Methods Course: EDES 335

Physics

Choose 15 credits of PHYS subject courses at the 200 level or higher

Recommended Methods Course: EDES 335



Bachelor of Education Secondary Mathematics

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 & Soc Justice <div style="text-align: right;">15 credits total</div>	EDPI 341 Instruction in Inclu Schools EDEC 262 Media, Technology & Ed Subject Area Course Subject Area Course Subject Area Course <div style="text-align: right;">15 credits total</div>	EDEC 351 Third Profes Seminar (2 cr) EDES 350 Classroom Practices **EDFE 351 Third Field Experience (8 cr) <div style="text-align: center; color: red;">C: EDEC 351, EDES 350, EDFE 351</div> <div style="text-align: right;">13 credits total</div>	EDEC 247 Policy Issues in QC Ed Subject Area Course Subject Area Course Elective <div style="text-align: right;">12 credits total</div>
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. Foundations <div style="text-align: right;">15 credits total</div>	*EDES 353 Teaching Secondary Math 1 EDPI 309 Diverse Learners Subject Area Course Subject Area Course <div style="text-align: right;">12 credits total</div>	Subject Area Course Subject Area Course Subject Area Course Subject Area Course Elective or Methods III (optional) <div style="text-align: right;">15 credits total</div>	EDEC 404 Fourth Year Profes Seminar EDES 453 Teaching Secondary Math 2 EDFE 451 Fourth Field Experience (7 cr) ^ EDPE 304 Measurement & Evaluation <div style="text-align: center; color: red;">C: EDEC 404 & EDFE 451</div> <div style="text-align: right;">16 credits total</div>
Year 1 - Spring	Year 2 - Spring	<div style="border: 2px solid blue; border-radius: 15px; padding: 10px;"> <p>* 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 one of: depending on availability</p> </div>	
EDEC 201 First Year Profes Seminar (1 cr) EDFE 200 First Field Experience (2 cr) <div style="text-align: center; color: red;">C: EDEC 201 & EDFE 200</div> <div style="text-align: right;">3 credits total</div>	EDEC 254 Second Profes Seminar (1 cr) EDFE 254 Second Field Experience <div style="text-align: center; color: red;">C: EDEC 254 & EDFE 254</div> <div style="text-align: right;">4 credits total</div>		



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-mathematics>

Bachelor of Education Secondary Mathematics



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 Professional Seminar (1 cr)			EDES 350	Classroom Practices		
EDEC 247	Policy Issues in Quebec Education			** EDFE 351	Third Field Experience (8 cr)		
EDEC 262	Media, Technology & Education						
EDFE 200	First Field Experience (2 cr)						
EDPE 300	Educational Psychology						
EDPI 341	Instruction in Inclusive Schools						
C - EDEC 201 & EDFE 200		15 credits total		C - EDEC 351, EDES 350, EDFE 351		13 credits total	
Year 3 - Winter				Year 4 - Winter			
EDEC 233	Indigenous Education			EDEC 404	Fourth Year Professional Seminar		
*EDES 353	Teaching Secondary Mathematics 1			EDES 453	Teaching Secondary Mathematics 2		
EDPI 309	Diverse Learners			EDFE 451	Fourth Field Experience (7 cr)		
EDEC 260	Philosophical Foundations			EDPE 304	Measurement & Evaluation		
<i>one of:</i>							
EDEC 248	Equity and Education						
EDEC 249	Global Ed & Soc Justice						
		15 credits total		C - EDEC 404 & EDFE 451		16 credits total	
Year 3 - Spring				* Prereq: 18 cr of university MATH courses at or above the 200 level. **Prereq: 24 cr of university MATH courses at or above the 200 level. <i>one of:</i> depending on availability			
EDEC 254	Second Professional Seminar (1 cr)						
EDFE 254	Second Field Experience						
C - EDEC 254 & EDFE 254		4 credits total					



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-mathematics>