

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

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

Date Completed: \_\_\_\_\_

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

## B.Ed. Secondary Mathematics 2016-17 (150 credits)

### Required Mathematics Subject Area Courses (27 credits)

- MATH 222 Calculus 3
- MATH 223 Linear Algebra
- MATH 235 Algebra 1
- MATH 242 Analysis 1
- MATH 315 Ordinary Differential Equations
- MATH 323 Probability
- MATH 324 Statistics
- MATH 338 History and Philosophy of Mathematics
- MATH 348 Topics in Geometry

### Complementary Mathematics Courses (27 or 9 credits)

Complete 27 cr from below without an Unof. second teachable subj.

OR 9 cr, with an 18 cr Unof. second teachable subject

- COMP 202 Foundations of Programming
- COMP 230 Logic and Computability
- EDTL 520 Perspectives on Knowledge in Math and Sci
- MATH 236 Algebra 2
- 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 417 Mathematical Programming
- 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 and Applications (4 cr)

### Unofficial Second Teachable Subject Courses (18 cr)

Complete if only 9 cr of complementary math courses taken

- second teachable -----
- second teachable -----
- second teachable -----
- second teachable -----
- second teachable -----
- second teachable -----

### Required Courses (54 credits)

- EDEC 215 English Exam for Teacher Certification (0 cr)
- EDPE 300 Educational Psychology (3 cr)
- EDEC 201 First Year Professional Seminar (1 cr)
- EDFE 200 First Field Experience (2 cr)
- EDEC 262 Media, Technology and Education
- EDPI 341 Instruction in Inclusive Schools (3 cr)
- EDES 353 Teaching Secondary Mathematics 1 (3 cr)
- EDPI 309 Diverse Learners (3 cr)
- EDEC 254 Second Professional Seminar Secondary (1 cr)
- EDFE 254 Second Field Experience Secondary (3 cr)
- EDEC 351 Third Professional Seminar Secondary (2 cr)
- EDES 350 Classroom Practices Secondary (3 cr)
- EDFE 351 Third Field Experience Secondary (8 cr)
- EDEC 247 Policy Issues in Quebec Education (3 cr)
- EDEC 404 Fourth Year Professional Seminar (Sec) (3 cr)
- EDES 453 Teaching Secondary Mathematics 2 (3 cr)
- EDFE 451 Fourth Field Experience Secondary (7 cr)
- EDPE 304 Measurement and Evaluation (3 cr)

### Complementary Courses (6 credits)

**3 credits from:**

- EDEC 233 First Nations and Inuit Education
- EDEC 248 Equity and Education
- EDEC 249 Global Education and Social Justice

**3 credits from:**

- EDEC 260 Philosophical Foundations
- EDEC 261 Philosophy of Catholic Education

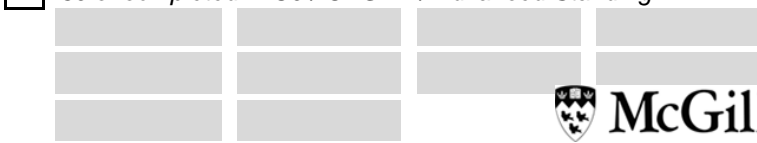
### Elective Courses (6 credits)

- elective -----
- EDES 334, EDER 372, EDES 335 or EDES 361

If an unofficial second teachable chosen, we strongly recommend that the corresponding method's course be taken as an elective

### Freshman Credits / CEGEP (30 credits)

- 30 cr completed in UO / CEGEP / Advanced Standing



See the back side for details on Unofficial Second Teachable options.

## Unofficial Second Teachable Subject Areas

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

### English

EDES 366 Literature for Young Adults

3 credits from:

CEAP 250 Research Essay & Rhetoric

EDEC 203 Communication in Education

EDSL 305 L2 Learning: Classroom Settings

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 12 credits as follows, from the English dept website:

<http://www.mcgill.ca/english/undergrad/2016-17-complement>:

with a minimum of 6 credits at the 300 level or higher:

6 credits of Literature

3 credits of Cultural Studies

3 credits of Drama / Theatre

*Recommended Method's Course: EDES 361*

### Geography

18 credits from:

ENVR 202 The Evolving Earth

GEOG 200 Geographical Perspectives: World Envr

GEOG 205 Global Change: Past, Present and 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 18 credits of HIST subject courses at the 200 level or higher.

*Recommended Method's Course: EDES 334*

### Ethics and Religious Culture

6 credits from:

EDER 309 The Religious Quest

RELG 204 Judaism, Christianity and Islam

RELG 207 The Study of World Religions 1

RELG 252 Hinduism and Buddhism

6 credits from:

EDER 209 Search for Authenticity

EDER 395 Moral Values and Human Action

EDER 461 Society and Change

EDER 473 Living with Insight

EDER 494 Ethics and Practice

PHIL 230 Introduction to Moral Philosophy 1

PHIL 237 Contemporary Moral Issues

6 credits from:

CATH 200 Introduction to Catholicism

EDER 252 Understanding and Teaching Jewish Life

EDER 319 Teaching the Holocaust

EDER 394 Philosophy of God

RELG 270 Religious Ethics and the Environment

*Recommended Method's Course: EDER 372*

### Biology

Choose 18 credits of BIOL subject courses at the 200 level or higher.

*Recommended Method's Course: EDES 335*

### Chemistry

Choose 18 credits of CHEM subject courses at the 200 level or higher.

*Recommended Method's Course: EDES 335*

### Physics

Choose 18 credits of PHYS subject courses at the 200 level or higher.

*Recommended Method's Course: EDES 335*

## Bachelor of Education Secondary Mathematics



### 4-Year Program Overview Admitted - Fall 2016

| Year 1 - Fall   | Year 2 - Fall   | Year 3 - Fall  | Year 4 - Fall   |
|---|---|--|---|
| EDEC 215 English Exam for Teach Cert (0 cr)<br>EDPE 300 Educational Psychology<br>Subject Area Course<br>Subject Area Course<br>Subject Area Course<br><i>one of:</i><br>EDEC 233 First Nations and Inuit Ed<br>EDEC 248 Equity and Education<br>EDEC 249 Global Ed & Soc Justice | EDPI 341 Instruction in Inclu Schools<br>EDEC 262 Media, Technology & Ed<br>Subject Area Course<br>Subject Area Course<br>Subject Area Course | EDEC 351 Third Profes Seminar (2 cr)<br>EDES 350 Classroom Practices<br>**EDFE 351 Third Field Experience (8 cr)   | EDEC 247 Policy Issues in QC Ed<br>Subject Area Course<br>Subject Area Course<br>Elective   |
| <b>15 credits total</b>   | <b>15 credits total</b>   | <b>13 credits total</b>  | <b>12 credits total</b>   |
| Year 1 - Winter   | Year 2 - Winter   | Year 3 - Winter  | Year 4 - Winter   |
| Subject Area Course<br>Subject Area Course<br>Subject Area Course<br>Subject Area Course<br><i>one of:</i><br>EDEC 260 Phil. Foundations<br>EDEC 261 Phil. of Catholic Ed   | *EDES 353 Teaching Secondary Math 1<br>EDPI 309 Diverse Learners<br>Subject Area Course<br>Subject Area Course                                | Subject Area Course<br>Subject Area Course<br>Subject Area Course<br>Subject Area Course<br>Elective or Methods III (optional)   | EDEC 404 Fourth Year Profes Seminar<br>EDES 453 Teaching Secondary Math 2<br>EDFE 451 Fourth Field Experience (7 cr)<br>^ EDPE 304 Measurement & Evaluation |
| <b>15 credits total</b>   | <b>12 credits total</b>   | <b>15 credits total</b>  | <b>16 credits total</b>   |
| Year 1 - Spring   | Year 2 - Spring   | <div style="border: 2px solid #00a0e3; border-radius: 15px; padding: 10px; display: inline-block;"> <ul style="list-style-type: none"> <li>* Prerequisite: 18 cr of university MATH courses at or above the 200 level.</li> <li>**Prerequisite: 24 cr of university MATH courses at or above the 200 level.</li> <li>^ Can be completed fall or winter U4</li> </ul> <p><b><i>one of:</i></b> depending on availability</p> </div> |   |
| EDEC 201 First Year Profes Seminar (1 cr)<br>EDFE 200 First Field Experience (2 cr)   | EDEC 254 Second Profes Seminar (1 cr)<br>EDFE 254 Second Field Experience   |  |   |
| <b>3 credits total</b>  | <b>4 credits total</b>  |  |   |

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

<http://www.mcgill.ca/study/2016-2017/faculties/education/undergraduate/programs/bachelor-education-bed-secondary-mathematics>

## Bachelor of Education Secondary Mathematics



### 2-Year Program Overview

Admitted - Fall 2016

| 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              |  |                                   |
| <b>15 credits total</b> |   | <b>13 credits total</b>  |                                   |
| Year 3 - Winter         |   | Year 4 - Winter  |                                   |
| *EDES 353               | Teaching Secondary Mathematics 1              | EDEC 404   | Fourth Year Professional Seminar  |
| EDPI 309                | Diverse Learners                              | EDES 453   | Teaching Secondary Mathematics 2  |
| <i>one of:</i>          |   | EDFE 451   | Fourth Field Experience (7 cr)    |
| EDEC 260                | Philosophical Foundations                     | EDPE 304   | Measurement & Evaluation          |
| EDEC 261                | Philosophy of Catholic Education              |  |                                   |
| <i>one of:</i>          |   |  |                                   |
| EDEC 233                | First Nations and Inuit Ed                    |  |                                   |
| EDEC 248                | Equity and Education                          |  |                                   |
| EDEC 249                | Global Ed & Soc Justice                       |  |                                   |
| <b>12 credits total</b> |   | <b>16 credits total</b>  |                                   |
| Year 3 - Spring         |   | * Prereq: 18 cr of university MATH courses at or above the 200 level.<br>**Prereq: 24 cr of university MATH courses at or above the 200 level.<br><i>one of:</i> depending on availability |                                   |
| EDEC 254                | Second Professional Seminar (1 cr)            |  |                                   |
| EDFE 254                | Second Field Experience                       |  |                                   |
| <b>4 credits total</b>  |   |  |                                   |



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

<http://www.mcgill.ca/study/2016-2017/faculties/education/undergraduate/programs/bachelor-education-bed-secondary-mathematics>