McGill

1.0 Degree Title
Specify the two degrees for concurrent degree programs

Bachelor of Science

1.1 Major (Legacy= Subject) (30-char. max.)

Mathematics and Statistics

1.2 Concentration (Legacy = Concentration/Option)
If applicable (30 char. max.)

1.3 Minor (with Concentration, if applicable)
(30 char. max.)

1.4 Category

☐ Faculty Program (FP)   ☒ Honours (HON)
☐ Major   ☐ Joint Honours
☐ Joint Major   Component (HC)
☐ Major Concentration (CON)   ☐ Internship/Co-op
☐ Minor   ☐ Thesis (T)
☐ Minor Concentration (CON)   ☐ Non-Thesis (N)
                                ☐ Other
                                    Please specify

1.5 Complete Program Title

Honours In Mathematics

2.0 Administering Faculty/Unit

Science

Offering Faculty/Department

Science / Mathematics and Statistics

3.0 Effective Term of revision or retirement
Please give reasons in 5.0 "Rationale" in the case
of retirement
(Ex. Sept. 2004 = 200409)   ☐ Retirement

Term: 200609

4.0 Existing Credit Weight   Proposed Credit Weight

60 Credits

5.0 Rationale for revised program

Math 352 should be added to the list of
"remaining" complementaries for the "Honours
in Mathematics" program.

6.0 Revised Program Description (Maximum 150 words)

7.0 List of existing program and proposed program

Existing program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses,

HONOURS IN MATHEMATICS (60 credits)
Required Courses (45 credits)

MATH 235	(3)	Algebra 1
MATH 242	(3)	Analysis 1
MATH 248*	(3)	Honours Advanced Calculus
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2
MATH 325	(3)	Honours Ordinary Differential Equations
MATH 354	(3)	Honours Analysis 3
MATH 355	(3)	Honours Analysis 4
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 366	(3)	Honours Complex Analysis
MATH 370	(3)	Honours Algebra 3
MATH 371	(3)	Honours Algebra 4
MATH 375	(3)	Honours Partial Differential Equations
MATH 380	(3)	Honours Differential Geometry

* MATH 314 may be substituted for MATH 248 if MATH 222 had to be taken in the Fall.

Complementary Courses (15 credits)
15 credits selected from:

MATH 350	(3)	Graph Theory and Combinatorics
MATH 376	(3)	Honours Nonlinear Dynamics and Chaos
MATH 377	(3)	Honours Number Theory
MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis
MATH 470	(3)	Honours Project (highly recommended)
MATH 480	(3)	Honours Independent Study
MATH 487	(3)	Honours Mathematical Programming
MATH 488	(3)	Set Theory

all MATH 500-level courses
Honours-level courses from related disciplines:

COMP 250*	(3)	Introduction to Computer Science
COMP 252	(3)	Algorithms and Data Structures

*COMP 250 may be preceded by COMP 202
no more than 6 credits from the following courses for which no Honours equivalent exists:

MATH 204	(3)	Principles of Statistics 2
MATH 329	(3)	Theory of Interest
MATH 338	(3)	History and Philosophy of Mathematics
MATH 339	(3)	Foundations of Mathematics
MATH 348	(3)	Topics in Geometry
MATH 407	(3)	Dynamic Programming
MATH 423	(3)	Regression and Analysis of Variance
MATH 437	(3)	Mathematical Methods in Biology
MATH 447	(3)	Stochastic Processes

Other courses with the permission of the Department.

Proposed program (list courses as follows: Subj Code/Crse

HONOURS IN MATHEMATICS (60 credits)
Required Courses (45 credits)

MATH 235	(3)	Algebra 1
MATH 242	(3)	Analysis 1
MATH 248*	(3)	Honours Advanced Calculus
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2
MATH 325	(3)	Honours Ordinary Differential Equations
MATH 354	(3)	Honours Analysis 3
MATH 355	(3)	Honours Analysis 4
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 366	(3)	Honours Complex Analysis
MATH 370	(3)	Honours Algebra 3
MATH 371	(3)	Honours Algebra 4
MATH 375	(3)	Honours Partial Differential Equations
MATH 380	(3)	Honours Differential Geometry

* MATH 314 may be substituted for MATH 248 if MATH 222 had to be taken in the Fall.

Complementary Courses (15 credits)
15 credits selected from:

MATH 350	(3)	Graph Theory and Combinatorics
MATH 352	**(1)**	**Problem Seminar**
MATH 376	(3)	Honours Nonlinear Dynamics and Chaos
MATH 377	(3)	Honours Number Theory
MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis
MATH 470	(3)	Honours Project (highly recommended)
MATH 480	(3)	Honours Independent Study
MATH 487	(3)	Honours Mathematical Programming
MATH 488	(3)	Set Theory

all MATH 500-level courses
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MATH 437	(3)	Mathematical Methods in Biology
MATH 447	(3)	Stochastic Processes

Other courses with the permission of the Department.

8.0 Consultation with Related Units	☐ Yes	☒ No	Financial Consult	☐ Yes ☐ No

Attach list of consultations

9. Approvals

Routing Sequence	Name	Signature	Date
Department	S. W. Drury		
Curric/Acad Committee			
Faculty 1			
Faculty 2			
Faculty 3			
SCTP			
GS			
APPC			
Senate			

Submitted by

Name		To be completed by ARR:
Phone		CIP Code
Email		
Submission Date		