### 1.0 Degree Title
Specify the two degrees for concurrent degree programs

| Bachelor of Science |

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

Honours Program in Mathematics

### 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)
- □ Major
- □ Joint Major
- □ Major Concentration (CON)
- □ Minor
- □ Minor Concentration (CON)

- □ Honours (HON)
- □ Joint Honours Component (HC)
- □ Internship/Co-op
- □ Thesis (T)
- □ Non-Thesis (N)
- □ Other

Please specify

### 1.5 Complete Program Title

Honours Program in Mathematics

### 2.0 Administering Faculty/Unit

Science

### 3.0 Effective Term of revision or retirement
Please give reasons in 8.0“Rationale” in the case of retirement (Ex. Sept. 2004 = 200409)

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### 4.0 Existing Credit Weight

### Proposed Credit Weight

### 5.0 Description (Maximum 150 words)

MATH 466 is renumbered MATH 366 with a new title.

### 6.0 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, Complementary Courses, Elective Courses)

**Proposed program** (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)
### Existing program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

**HONOURS PROGRAM IN MATHEMATICS (60 credits)**

**Required Courses (45 credits)**
- MATH 235 (3) Basic Algebra
- MATH 242 (3) Analysis 1
- MATH 248* (3) Advanced Calculus 1
- MATH 251 (3) Algebra 2
- MATH 255 (3) Analysis 2
- MATH 325 (3) Ordinary Differential Equations
- MATH 354 (3) Analysis 3
- MATH 355 (3) Analysis 4
- MATH 356 (3) Probability
- MATH 357 (3) Statistics
- MATH 370 (3) Algebra 3
- MATH 371 (3) Algebra 4
- MATH 375 (3) Differential Equations
- or MATH 574(4) Ordinary Differential Equations
- MATH 380 (3) Differential Geometry

**MATH 466 (3) Complex Analysis**

("MATH 314 may be substituted for MATH 248 if MATH 222 had to be taken in the Fall")

**Complementary Courses (15 credits) selected from the following:**
- MATH 350 (3) Graph Theory and Combinatorics
- MATH 376 Chaos and Nonlinear Dynamics
- MATH 377
- MATH 387 Numerical Analysis
- MATH 397
- MATH 470 Honours Project
- MATH 480 Independent Study in Math
- MATH 487 Mathematical Programming
- MATH 488 Set Theory

All MATH 500 level courses; no more than 6 credits from the following courses for which no honours equivalent exist:
- MATH 204
- MATH 329
- MATH 338 History & Philosophy of Math
- MATH 339
- MATH 348 Topics in Geometry
- MATH 407
- MATH 423 Regression & Analysis of Variance
- MATH 437 Mathematical Meth in Biology
- MATH 447

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; other courses with the permission of the department.

### Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

**HONOURS PROGRAM IN MATHEMATICS (60 credits)**

**Required Courses (45 credits)**
- MATH 235 (3) Basic Algebra
- MATH 242 (3) Analysis 1
- MATH 248* (3) Advanced Calculus 1
- MATH 251 (3) Algebra 2
- MATH 255 (3) Analysis 2
- MATH 325 (3) Ordinary Differential Equations
- MATH 354 (3) Analysis 3
- MATH 355 (3) Analysis 4
- MATH 356 (3) Probability
- MATH 357 (3) Statistics
- MATH 370 (3) Algebra 3
- MATH 371 (3) Algebra 4
- MATH 375 (3) Differential Equations
- or MATH 574(4) Ordinary Differential Equations
- MATH 380 (3) Differential Geometry

**MATH 366 (3) Honours Complex Analysis**

("MATH 314 may be substituted for MATH 248 if MATH 222 had to be taken in the Fall")

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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; other courses with the permission of the department.)
7.0 Consultation with Related Units  □ Yes  □ No  Financial Consult  □ Yes  □ No

Attach list of consultations.

8.0 Rationale
The number of MATH 466 is being reduced to MATH 366 and the title change has also been proposed as part of our systematic set of title changes.

9.0 Approvals

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<tr>
<td>Department</td>
<td>G. Schmidt</td>
<td></td>
<td>November 30, 2004</td>
</tr>
<tr>
<td>Curric/Acad Committee</td>
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Submitted by

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<td></td>
<td><a href="mailto:gschmidt@math.mcgill.ca">gschmidt@math.mcgill.ca</a></td>
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To be completed by ARR:

CIP Code