### 1. Will this new course affect a current program?
- [ ] Yes
- [x] No

If "yes", has a Program Revision Form been submitted concurrently?
- [ ] Yes
- [x] No

### 2. Teaching Department:
- Mathematics & Statistics

### 3. Administering Faculty/Unit:
- Science

### 4. Campus
- (Downtown, Macdonald, Off Campus, Distance Ed, Other – specify)
- Downtown

### 5. Effective Term of Implementation
- (Ex. Sept. 2004 = 200409)
- Term: 200509

### 6. Course Title (Limit 30 Characters) - required for all courses:
- Advanced Set Theory

### 7. Course Number(s)
- Indicate course number & the number of terms spanned:
- Subject/course number: MATH 590
- Course(s) Span:
  - [x] 1 term
  - [ ] 2 consecutive terms (D1, D2)
  - [ ] 2 non-consecutive terms (N1, N2)
  - [ ] 3 terms (J1, J2, J3)

### 8. Course Title to Appear in the Calendar (optional)
- Limit 59 characters:
- Note: This can ONLY be an expansion of word(s) abbreviated in the 30 character course title above.
- Advanced Set Theory

### 9. Credit Weight
- (or CEU’s for non-credit CE courses):
- 4

### 10. Schedule Type(s): (Enter all that apply – see form, STVSCHD in Banner for a complete list.)
(i.e. Lecture, Labs, Tutorial)

<table>
<thead>
<tr>
<th>Schedule Type</th>
<th>Hours per Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures</td>
<td>3</td>
</tr>
<tr>
<td>Project</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours per Week:** 6

**Total Number of Weeks:** 13

### 11. Projected Enrolment:
- 6
### 12. Prerequisite(s) (Courses or Tests)
Specify course number(s) or name(s) of test(s):

| MATH 318, either MATH 355 or MATH 371, or permission of the instructor. |

If the student does not have a prerequisite should web registration be blocked?

- [ ] Yes
- [x] No

If “Yes” complete A and B:

A. Indicate minimum grade or test score(s) the student must attain in prerequisite course(s) or test(s):

B. Can the prerequisite course(s) or test(s) be taken in the same term as this course?

- [ ] Yes
- [ ] No

### 13. Corequisite(s) Course Number(s):
Specify course number(s) and title(s):

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
</table>

If the student does not register for the corequisite in the same term should web registration be blocked?

- [ ] Yes
- [ ] No

### 14. Consultation Reports Attached

- [ ] Yes
- [x] N/A

### 15. Additional Course Charges (must be approved by the Fee Policy Committee)

<table>
<thead>
<tr>
<th>Description of Fee</th>
<th>Amount</th>
</tr>
</thead>
</table>

### 16. Requires Teaching, Physical, or Financial Resources

Not Currently Available (attach explanation)

- [ ] Yes
- [ ] No

### 17. Other Information (specify):

### 18. Course Description
(as it will appear in the Calendar [maximum 50 words]):

(N.B. Faculty of Medicine must append complete course outline)

Students will attend the lectures and fulfill all the requirements of MATH 488. In addition they will study an advanced topic agreed on with the instructor. Topics may be chosen from combinatorial set theory, set-theoretic topology, descriptive set theory, Gödel's constructible sets, forcing, large cardinals.

### 19. Supplementary information to appear in the Calendar in addition to the course description.

Such as: registration restriction(s), prerequisite(s), corequisite(s), equivalent course(s), contact hours, enrolment limitations, language of instruction etc.

Please enter the information as it should appear in the calendar notes.

(Prerequisites: MATH 318, either MATH 355 or MATH 371, or permission of the instructor.) (Not open to students who have taken or are taking MATH 488.)

### 20. Rationale

This course will be available to graduate students carrying the same credit weight as our other graduate courses. Projects and presentations, involving extra work, will take students more deeply into the subject than is feasible in MATH 488.
### INFORMATION FOR ADMISSIONS, RECRUITMENT & REGISTRAR'S OFFICE

**To be completed by the Faculty**

- Slot Course:  □ Yes  □ No
- Thesis Component: □ Yes  □ No

**To be completed by ARR**

- CIP Code

**For Continuing Education Use**

- CE Admin. Unit:
- CE Non-Grant Courses:
- Flat Rate: Cdn Flat Rate:  □ Yes  □ N/A

### 21. Approvals:

<table>
<thead>
<tr>
<th>Routing Sequence</th>
<th>Departmental Meeting</th>
<th>Departmental Chair</th>
<th>Other Faculty</th>
<th>Curric/Academic Committee</th>
<th>Faculty</th>
<th>SCTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>G. Schmidt</td>
<td>K. GowriSankaran</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signature</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Departmental Contact Person (name/phone/email)</td>
<td><a href="mailto:gschmidt@math.mcgill.ca">gschmidt@math.mcgill.ca</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>