### New Course Proposal Form

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

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

**2. Teaching Department:**
- Computer Science

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

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

**5. Effective Term of Implementation**
- Ex. Sept. 2004 = 200409
- Term: 200609

**6. Responsible Instructor:**
- Prakash Panangaden

**7. Course Title (Limit 30 Characters) - required for all courses:**
- Logic and Computability

**8. Course Number(s)**
- Subject/course number: COMP 230

- Course(s) Span:
  - 1 term [X]
  - 2 consecutive terms (D1, D2)
  - 2 non-consecutive terms (N1, N2)
  - 3 consecutive terms (J1, J2, J3)

**9. 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.

**10. Credit Weight**
- (or CEU's for non-credit CE courses):
- 3

**11. Rationale for new course**

While there are excellent graduate courses in logic offered by the mathematics and statistics department and excellent undergraduate logic courses offered by the philosophy department there are no courses that are both (a) widely accessible and which (b) stress the interplay between logic and computation.

**12. Course Description**
- (as it will appear in the Calendar [maximum 50 words]):
  
  Propositional Logic, predicate calculus, proof systems, computability Turing machines, Church-Turing thesis, unsolvable problems, completeness, incompleteness, Tarski semantics, uses and misuses of Gödel’s theorem.

**13. Supplementary information to appear in the Calendar in addition to the course description.**
- Such as: equivalent course(s), contact hours, enrolment limitations, language of instruction etc.
- Please enter the information as it should appear in the calendar notes.
14. Schedule Types(s):
(Enter all that apply – see course guidelines for a complete list.)
(i.e. Lecture, Labs, Tutorial)

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<th>Lecture</th>
<th>Hours per Week</th>
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Total Hours per Week: 3
Total Number of Weeks: 13

15. Projected Enrolment:
15-20

16. Required text and/or preliminary reading list sent to library?
☐ Yes  ☒ No

17. Prerequisite(s) (Courses or Tests)
Specify course number(s) or name(s) of test(s):

CEGEP level mathematics

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

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

If the student does not register for the corequisite in the same term should web registration be blocked?
☐ Yes  ☒ No

19. Restriction(s):

20. Consultation Reports Attached
☒ Yes  ☐ N/A

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

Description of Fee (e.g. screening fee)  Amount

22. Requires Teaching, Physical, or Financial Resources
Not Currently Available (attach explanation)
☐ Yes  ☒ No
| 23. Approvals: |  
|-------------------|-------------------|
| Routing Sequence | Departmental Meeting | Departmental Chair | Other Faculty | Curric/Academic Committee | Faculty | SCTP |
| Name | Sue Whitesides | | | | | |
| Signature | | | | | | |
| Date | March 20, 2006 | | | | | |

Departmental Contact Person (name/phone/email)  
Judy Kenigsberg ext. 00895