# Course Revision Form

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

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

**2. Teaching Department:**
- School of 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: 200701
- [ ] Retirement

**6. Responsible Instructor:**
- Brigitte Pientka

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

Old Credit Weight or CEU's (if applicable): 

**8. Course Number(s)**
- Indicate course number & the number of terms spanned:
  - [x] Subject/course number: COMP 426
  - Course(s) Span:
    - 1 term
    - 2 consecutive terms (D1, D2)
    - 2 non-consecutive terms (N1, N2)
    - 3 consecutive terms (J1, J2, J3)

**9. Number Change From:**

**10. Consolidation of Courses:**

**11. Split of Multi-Term Course:**

**12. Course Title (Limit 30 char.) - required for all courses.**
- Automated Reasoning

Old Course Title (if applicable):

**13. Course Title to Appear in the Calendar (Optional)**
- (Limit 59 characters):
  - Automated Reasoning

**Rationale for revised course**

Over the last decade logic and automated reasoning techniques have widely influenced many areas of computer science, in particular programming language design, hardware and software verification, distributed computing, databases, and artificial intelligence. To reflect the broad impact this field has had on computer science, the course content will be updated, and will focus on foundations.

COMP 302 “Programming Languages and Paradigms” gives a solid foundation for COMP 426. Therefore, the prerequisites COMP 424 “Topics: Artificial Intelligence 1” and MATH 340 “Discrete Structures 2” are being deleted.

**15. New Course Description**
- (as it will appear in the Calendar [maximum 50 words]):
  - N.B. Faculty of Medicine must append complete course outline)
  - Logic provides computer science with both a unifying foundational framework and a tool for modeling. Introduction to modern constructive logic, its mathematical properties, and its numerous applications in computer science.

**16. Old Course Description**
- (may be found in the Calendar or Banner)
  - Representing and reasoning with knowledge. The case for logics. Introduction to Logic Programming and, for example, PROLOG. Introduction to some Artificial Intelligence applications of Logic Programming: Meta-interpreters, Expert Systems and their implementation, Planning, Natural Language Processing, Machine Learning.
17. 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.

18. Schedule Types(s):
(Enter all that apply – see course guidelines for a complete list.)

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

19. Projected Enrolment:
30

20. Revised Prerequisite(s) (Courses or Tests) (in full)
Specify course number(s) or name(s) of test(s):

- Comp 302

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

Old prerequisite course number(s) or test score title(s) (if applicable)

- COMP 424; or COMP 302 with MATH 340

21. Revised Corequisite(s) Course Number(s) (in full):
Specify course number(s):

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

Old corequisite(s) course numbers (if applicable):

22. Revised Restriction(s):

Old Restriction(s):

23. Additional Course Charges (must be approved by the Fee Policy Committee)
Description of Fee (e.g. screening fee) Amount

24. Requires Teaching, Physical, or Financial Resources
Not Currently Available (attach explanation)
- Yes
- No

25. Consultation Reports Attached
- Yes
- N/A
### 26. 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>
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Departmental Contact Person (name/phone/email)

Judy Kenigsberg, ext. 00895