**1. Will this new course affect a current program?**

If "yes", has a Program Revision Form been submitted concurrently?

- Yes  ☐  No  ☑

- Yes  ☑  No  ☐

**2. Teaching Department:**

School of Computer Science

**3. Administering Faculty/Unit:**

Graduate and Postdoctoral Studies

**4. Campus**

(Downtown, Macdonald, Off Campus, Distance Ed, Other – specify)

Downtown

**5. Effective Term of Implementation**

(Ex. Sept. 2004 = 200409)

Term: 200501

**6. Course Title (Limit 30 Characters) - required for all courses:**

Approximation Algorithms

**7. Course Number(s)**

Indicate course number & the number of terms spanned:

(tick all that apply)

- Subject/course number: Comp 692

- Course(s) Span:
  - 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.

**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>Hours per Week</th>
<th>Hours per Week</th>
<th>Hours per Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>3</td>
<td>Research</td>
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</table>

This is a high level graduate course introducing students to research in the area. Its difficulty justifies the 4 credits.

**11. Projected Enrolment:**

10

**10. Projected Enrolment:**

10
12. Prerequisite(s) (Courses or Tests)

Specify course number(s) or name(s) of test(s):

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

13. 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

14. Consultation Reports Attached

- Yes
- N/A

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

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

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)

The theory and application of approximation algorithms. Topics include: randomized algorithms, network optimization, linear programming and semi definite programming techniques, the game theoretic method, the primal-dual method, and metric embeddings.

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: Strong background in algorithms and/or mathematics.

20. Rationale

To provide a graduate course in Approximation algorithms. The course will cover standard techniques and topics essential to any student working in the area of the analysis of algorithms.
### INFORMATION FOR ADMISSIONS, RECRUITMENT & REGISTRAR'S OFFICE

**To be completed by the Faculty**

- **Slot Course:** [ ] Yes  [ ] No

**To be completed by ARR**

- **CIP Code**

**For Continuing Education Use**

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

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### 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>
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</thead>
<tbody>
<tr>
<td>Name</td>
<td>Denis Thérien</td>
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<td>Date</td>
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**Departmental Contact Person**

Judy Kenigsberg Ext. 00895