## New Course Proposal Form

**AC-04-12**

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

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

### 2. Teaching Department:
- Computer Science

### 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:
- Distributed Systems

### 7. Course Number(s)
- Subject/course number: COMP 512
- 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) Hours per Week
    - Lecture 3
    - Project 3
    - Total Hours per Week: 6

See attached description

### 11. Projected Enrolment:
- 25

### 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:
- Distributed Systems

### 7. Course Number(s)
- Subject/course number: COMP 512
- 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) Hours per Week
    - Lecture 3
    - Project 3
    - Total Hours per Week: 6

See attached description

### 11. Projected Enrolment:
- 25
12. Prerequisite(s) (Courses or Tests)
Specify course number(s) or name(s) of test(s):

| COMP-310, COMP-251, or equivalent |

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)

Models and Architectures. Application-oriented communication paradigms (e.g., remote method invocation, group communication). Naming services. Synchronization (e.g., mutual exclusion, concurrency control). Fault-tolerance (e.g., process and replication, agreement protocols). Distributed file systems. Security. Examples of distributed systems (e.g., Web, CORBA). Advanced Topics.

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.

20. Rationale
Owing to new technologies like the Internet, distributed systems have become reality and are widely applied in practice - the WWW being a well-known example. The objective of this new course is to learn the state-of-the-art of practical distributed systems, to understand the typical problems and challenges encountered in distributed environments, and to discuss both sound and practical solutions for them. Many universities provide a course on distributed systems. So far, the School of Computer Science provides network courses that only discuss basic communication protocols. Furthermore, the School provides a course COMP-575 on Fundamentals of Distributed Algorithms. In contrast to this new course, COMP-575 addresses the subject from an algorithmic point of view and does not look into concrete realizations of these algorithms. Hence, the new course complements existing courses very nicely.
**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: CdnFlat 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></td>
<td>Denis Thérien</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>17 Sept. 2004</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Departmental Contact Person (name/phone/email)</td>
<td>Judy Kenigsberg ext. 00895</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>