Curriculum Change Proposal Form

1) Unit proposing the change: __ Mathematics & Computer Science__

2) Please check all appropriate items:

<table>
<thead>
<tr>
<th>New Course:</th>
<th>Course Change:</th>
<th>Course Deletion:</th>
<th>Program Changes:</th>
<th>New Programs:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ New Course Creation¹ (include title, credits, description, etc.)</td>
<td>☐ Add to LAE²</td>
<td>☐ Remove a Course³</td>
<td>☐ Change to Major⁴</td>
<td>☐ New Degree⁵</td>
</tr>
<tr>
<td>☐ Course to be Cross Listed⁶</td>
<td>☐ Remove from LAE⁴</td>
<td>☐ Change to Minor⁴</td>
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<tr>
<td>☐ Course to be Included in LAE⁷</td>
<td>☐ Change to LAE (change to the LAE itself)⁸</td>
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<tr>
<td>☐ Course Included in Major/Minor Requirements⁹</td>
<td>☐ Change in Cross-List Status¹⁰</td>
<td></td>
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<tr>
<td>☐ Special Course or non-credit workshop¹¹</td>
<td>☐ Delete a Major or Minor¹²</td>
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<td></td>
<td>☐ Change to Degree Requirements¹³</td>
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</tbody>
</table>

¹ Curriculum Committee receives & reports to faculty
² 30-day faculty review required
³ LAE assessment plan with assessment committee review required prior to CC consideration
⁴ Full faculty approval required
⁵ Curriculum Committee for action, approval published to faculty

3. Proposed term of initial offering or implementation date: __Spring 2012__

4. Please provide the following information here or attached:

   a. recommended level: SO JR SR

   b. credit hours: __3__

   c. title: __Web Applications Development__

   d. requirements it will satisfy: (major, minor, LAE, licensure) __Major (elective), Minor__

   e. prerequisites or other special conditions: __cpsc 111, cpsc 260__

   f. description of change: __Addition of new course__

   g. proposed catalog description: See attached

   h. justification for change: See attached

   i. staffing considerations:
      (1) can be taught by present staff __X__
      (2) will require additional staff __

   j. anticipated frequency of offering:
      (1) every semester __
      (2) once a year __

Revised 3/13/08
(3) alternate years X_

k. resources (facilities, equipment, supplies, library materials, etc.)

Computer Science computer lab

5. Signatures:
Department Chair: [Signature]
(please attach department discussion summary)
Date: 3/14/2010
Department Vote:
in favor 6  opposed 0  abstentions 0

Division Coordinator: [Signature]
(please attach department and division discussion summaries)
Date: 3/23/2010
Division Vote:
in favor 25  opposed 0  abstentions 0

Committee Chair (VPAA): [Signature]
Date: 4/5/2010
Curr Comm vote:
in favor 8  opposed 0  abstentions 0

6. Date of Resolution:
(a) 30-day approval period ends ____________________________
(b) date of faculty meeting for consideration _____________________

NOTE: See APAP section 110 for more information regarding changes to curriculum.
Science Division Meeting  
MACS Course Proposal Discussion  
March 23, 2010


Faculty was asked for feedback on the MACS proposal for the addition of a Web Applications Development course. Not offering a course in the area has been a weakness. Faculty wanted the term “web development” defined, asked about the resources needed to teach the course, and asked what the prerequisites of the course were.

The course is not a web design course—web design involves the graphical aspect and web development involves the functionality of a web site. The Digital Media Design program teaches web design and would like to funnel students into the web development course.

The 200 and 400-level topics courses will be combined if Web Applications Development is added, keeping the total number of computer science courses the same. The course would be an entire semester of web development in a share-hosting environment taught on lab computers without a server but with the same technology.

Prerequisites for Web Applications Development would be CPSC 111 and CPSC 260 (database). The course would be offered every two years.

Faculty voted and approved the proposal for the addition of Web Applications Development unanimously:

In favor, 25;  Opposed, 0;  Absentions, 0.
Proposal for Addition of *Web Applications Development*

*Justification*

The development of web applications is a major and still growing professional opportunity for Computer Science graduates. Until now our curriculum has provided a three week introduction to web programming in our Programming Languages (cpsc 340) course. This introduction is barely sufficient to enable strongly motivated students to continue working on their own.

With technology as it is, providing our students with a stronger base of skills in web applications development will position them more strongly in the job market, and provide them with more options for working independently.

*Catalog Description*

2xx. *Web Applications Development* (3) studies and practices the development of dynamic data-driven web applications, in the context of the languages and technologies used in typical shared hosting environments. Topics include designing and implementing data models for a web application, developing the server side code necessary to interact with that data model, developing the web pages for the application, and an introduction to the use of dynamic scripting on the client side.

*Department Discussion Summary*

We met on March 1, 2010 to discuss this proposal. Mr. Shaffstead shared with us the fact that the timing of this proposal is due largely to the proposed inclusion of this new course in a CS track to the Digital Media Design major currently being considered. However, it was made clear to the group that this is an initiative that has been in the works for a few years and that we should add this course independent of whether or not it is eventually included in Digital Media Design—for the reasons given in the *justification* above. It was also observed that, in light of the recent deletion of CPSC 310, the addition of this course leads to a net-zero change in the number of Computer Science courses. An active Q & A followed, demonstrating enthusiasm for this initiative. It was agreed that Jay would write-up the formal wording for electronic distribution. I sent it out on 3/5 and have since received positive votes from all members of the department.