11-12-2001

Minor Change in Computational Science

The College at Brockport, College Senate

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SUNY BROCKPORT
Faculty Senate
State University of New York
College at Brockport
350 New Campus Drive
Brockport, NY 14420-2925
(716) 395-2586 (Fax) 395-2246

TO: Dr. Paul Yu, College President
FROM: The Faculty Senate Meeting on: November 12, 2001
RE: I. Formal Resolution (Act of Determination)
    II. Recommendation (Urging the Fitness of)
    III. Other, For your Information (Notice, Request, Report, etc.)

SUBJ: Minor Change in Computational Science

Signed: Jennifer Lloyd, Faculty Senate President
Date Sent: 12/12/01

TO: The Faculty Senate
FROM: Dr. Paul Yu, College President
RE: I. Decision and Action Taken on Formal Resolution (circle)
    a. Accepted. Effective Date: ___/___/___
    b. Deferred for discussion with the Faculty Senate on ___/___/___
    c. Unacceptable for the reasons contained in the attached explanation

II, III. Response to Recommendation/Other
    a) Received and acknowledged
    b) Comment:

DISTRIBUTION: President’s Staff, Deans’ Council, Faculty

Distribution Date: 12-/9-01 Signed:

(Dean Yu, President, SUNY College at Brockport)

Faculty Senate, 12/07/01
C:My Documents/Resolutions/RESFORM.doc
To: Jenny Lloyd, President, Faculty Senate

From: Osman Yasar, Chair
Department of Computational Science

We request a minor modification to our undergraduate curriculum. The modification sought is the replacement of CSC 205 Fundamentals of Computer Science with CSC 203 Fundamentals of Computer Science.

Rationale:
CSC 205 goes too deep into C++ programming; a specialty more appropriate for students with a strong interest in upper level electives in computer science. Currently, this course does not lead to any upper level required courses.

**BS Requirements in Computational Science** (proposed changes highlighted)

<table>
<thead>
<tr>
<th>Required Courses (36 credits):</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics courses (9 credits)</td>
<td></td>
</tr>
<tr>
<td>Calculus III (MTH 203)</td>
<td>3</td>
</tr>
<tr>
<td>Elementary Statistics (MTH 243)</td>
<td>3</td>
</tr>
<tr>
<td>Linear Algebra (MTH 424)</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science Courses (4 credits)</td>
<td></td>
</tr>
<tr>
<td>Fundamentals of Computer Science (CSC 205)</td>
<td>4</td>
</tr>
<tr>
<td>Computational Science Courses (15 credits)</td>
<td></td>
</tr>
<tr>
<td>Computational Tools I (CPS 201)</td>
<td>3</td>
</tr>
<tr>
<td>Computational Tools II (CPS 202)</td>
<td>3</td>
</tr>
<tr>
<td>High Performance Computing (CPS 303)</td>
<td>3</td>
</tr>
<tr>
<td>Simulation and Modeling (CPS 304)</td>
<td>3</td>
</tr>
<tr>
<td>Applied and Computational Mathematics (CPS 404)</td>
<td>3</td>
</tr>
<tr>
<td>Application Sciences (8 credits)</td>
<td>8</td>
</tr>
<tr>
<td>200-level and higher non-CPS courses from an area of application chosen under advisement</td>
<td></td>
</tr>
<tr>
<td>Elective Courses (6 credits) (upper-division courses)</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL Credits</strong> (including electives)</td>
<td><strong>42</strong></td>
</tr>
</tbody>
</table>

**Prerequisites:**
- Calculus I & II (MTH 201 & 202 - 6 credits)
- Discrete Mathematics I (MTH 281 - 3 credits)
- Introduction to Computer Science (CSC 120 - 3 credits)
- Fundamentals of Computer Science I (CSC 203 - 4 credits)