Restructuring the Major in Computer Information Systems

The College at Brockport, College Senate

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TO: Dr. John R. Halstead, College President
FROM: The College Senate: March 22, 2010

RE: Restructuring the Major in Computer Information Systems (routing number 3809-10 UC)

SUBJ: Restructuring the Major in Computer Information Systems (routing number 3809-10 UC)

Signed: __________________________ Date: 3/26/10

(Signed: (Steven Lewis, 2009-10 College Senate President)

TO: Steven Lewis, The College Senate President
FROM: John R. Halstead, College President
RE: Restructuring the Major in Computer Information Systems (routing number 3809-10 UC)

SUBJ: Restructuring the Major in Computer Information Systems (routing number 3809-10 UC)

Signed: __________________________ Date: 4/2/10

(Dr. John R. Halstead, President, The College at Brockport)

DISTRIBUTION

Upon approval, the College President will forward copies of resolutions to his staff who will, in turn, forward copies to their staff. The College Senate Office will post resolutions to the College Senate Web at http://www.brockport.edu/collegesenate/resolutions.
TO:       Dr. John R. Halstead, College President
FROM:    The College Senate:  March 22, 2010
RE:            I.   Formal Resolution (Act of Determination)
               II.   Recommendation (Urging the Fitness of)
               III.  Other, For Your Information (Notice, Request, Report, etc.)
SUBJ: Restructuring the Major in Computer Information Systems (routing number 35 09-10 UC)

Signed:________________________________________________    Date: ____/____/____
(Steven Lewis, 2009-10 College Senate President)

Please fill out the bottom portion and follow the distribution instructions at the end of this page.

TO:         Steven Lewis, The College Senate President
FROM:    John R. Halstead, College President
RE:         I. Decision and Action Taken on Formal Resolution (circle choice)
            a. Accepted  Implementation Effective Date:  Fall 2010
            b. Deferred for discussion with the Faculty Senate on ____/____/____
            c. Unacceptable for the reasons contained in the attached explanation
II, III. Response to Recommendation or Other/FYI
            a. Received and acknowledged ____/____/____
            b. Comment: ________________________________________________________________

Signed:___________________________________________________________ Date: ___________________
(Dr. John R. Halstead, President, The College at Brockport)

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DEADLINE FOR SUBMISSIONS: FEBRUARY 28
Incomplete proposals or proposals received after the deadline may not be reviewed until next semester.

INSTRUCTIONS – please, no multiple attachments – each proposal must be submitted electronically as one document.
• Submit only complete proposals. Include support letters from department chair and dean.
• Proposals must be prepared individually in Word format using committee guidelines available at brockport.edu/collegesenate/proposal.html.
• Fill out this cover page for each proposal and insert it electronically as the front page of your document. (collegesenate/proposal.html)
• Email whole proposal with cover page as one attachment to senate@brockport.edu and facprez@brockport.edu.
• All updates must be resubmitted to the Senate office with the original cover page including routing number.
• Questions? Call the Senate office at 395-2586 or the appropriate committee chairperson.

1. PROPOSAL TITLE: Please be somewhat descriptive, i.e. Graduate Probation/Dismissal Proposal rather than Graduate Proposal.
   Restructuring the Major in Computer Information System (CIS)

2. BRIEF DESCRIPTION OF PROPOSAL:
   Currently, the Department of Computer Science has one ABET-accredited program (AC Track of the CSC major). We are seeking similar ABET accreditation for the CIS major. Recent changes to the ABET accreditation criteria and our experience with the ABET team that evaluated the computer science program in Fall 2008 has necessitated the proposed restructuring of the CIS major. We wish to replace CSC 442 Electronic Commerce Technology by CIS 442 Electronic Commerce Systems, place some restrictions on allowed electives and co-requisites, and change prerequisites for some courses in the CIS major.

3. HOW WILL THIS EFFECT TRANSFER STUDENTS:
   There are no adverse effects. A student with CSC 203, CSC 205, MTH 201, and MTH 281 in transfer credits should be able to complete the program in 4 semesters.

4. ANTICIPATED EFFECTIVE DATE:           FALL 2010

4. SUBMISSION & REVISION DATES: PLEASE PUT A DATE ON ALL UPDATED DOCUMENTS TO AVOID CONFUSION.

First Submission   Updated on   Updated on   Updated on
February 04, 2010

5. SUBMITTED BY: (contact person)

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. T.M. Rao</td>
<td>Computer Science</td>
<td>395-5176</td>
<td><a href="mailto:trao@brockport.edu">trao@brockport.edu</a></td>
</tr>
</tbody>
</table>

6. COMMITTEES TO COPY: (Senate office use only)

<table>
<thead>
<tr>
<th>Standing Committee</th>
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</thead>
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<td>Enrollment Planning &amp; Policies</td>
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<td>2/5/10</td>
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<tr>
<td>Faculty &amp; Professional Staff Policies</td>
<td>Executive Committee</td>
<td>2/22/10</td>
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<tr>
<td>General Education &amp; Curriculum Policies</td>
<td>GED to Vice Provost</td>
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<tr>
<td>Graduate Curriculum &amp; Policies</td>
<td>Senate</td>
<td>3/1/10 (3/22/10 Vote)</td>
</tr>
<tr>
<td>Student Policies</td>
<td>College President</td>
<td>3/26/10</td>
</tr>
</tbody>
</table>

Undergraduate Curriculum & Policies
* follow special Gen Ed procedures for submission of General Education proposals at “How to Submit Proposals” on our Website.

REJECTED -WITHDRAWN

NOTES:
0. **Intent of the Proposal**

The Department of Computer Science at The College at Brockport, State University of New York currently offers an undergraduate degree program in computer information systems (CIS). The major is recommended for students with a strong interest in business applications of computing. The department plans to seek external disciplinary accreditation for the program during the 2012-13 cycle from ABET, Inc (www.abet.org). This proposal addresses the revision of the requirements for the major, to take effect in Fall 2010. The number of credits in the major remains the same. No additional resources are needed to implement the revision and no other department is affected by the changes.

1. **Rationale for Restructuring**

The Department of Computer Science has offered an undergraduate degree program in computer information systems since 1998 as one possible track under the computer science major. In July 2008, the department received approval from SUNY and NYSED for the re-designation of the program as a separate major in Computer Information Systems. The main purpose for establishing the program as a separate major is to seek accreditation by the Computing Accreditation Commission (CAC) of ABET, as per the College’s MOU (Mission Review II, November 2006, page 9) with SUNY. In order to be successful in this accreditation effort, the department wishes to revise the requirements for the CIS major for the following reasons:

a. ABET has revised their criteria for accreditation of computing programs, which became effective for the 2009-10 cycle. In addition, ABET has released drafts of further revision to their criteria effective 2011-12.

b. A draft version of a new national model curriculum for information systems (http://blogsandwikis.bentley.edu/iscurriculum/index.php/Main_Page) shows new directions and opportunities for improvement of our program.

c. Our own program assessment efforts and rapid developments in the computing disciplines have shown us a need to revise and strengthen some components of our program.

d. The Advanced Computing (AC) Track of the Computer Science major is currently accredited by the Computing Accreditation Commission (CAC) of ABET. In accordance with ABET policies for renewing this accreditation, an evaluation team of three experts visited the College during October 19 – 21, 2008. The feedback received from the experts and their interpretation of some aspects of the criteria has suggested us the need for some restructuring, specifically revising prerequisites for our courses and placing restrictions on electives and co-requisites.

2. **Proposed Changes**

a. **Electronic Commerce**

**Current Status:** CSC 442 currently covers concepts relating to electronic commerce technology and is open to both Computer Science and Computer Information Systems students. Our program assessment data suggests that computer information systems would benefit if the course had less emphasis on technology and focused more on applications.
**Proposed Change:** Replace the required 3-credit CSC 442 with the 3-credit CIS 442, which is taught only for the computer information systems (CIS) majors.

**Rationale:** This replacement allows Computer Information Systems students to focus more on real world applications and cases, ethical, social and political issues related to e-commerce, and less on computer programming. The revised content allows us to better achieve our stated student learning outcomes for the program.

**b. Elective courses**

**Current Status:** Students can take two courses from the following list: CIS or CSC courses numbered 400-489, except CSC 411, 419, 422, 427 and 434.

**Proposed Change:** Students can take two courses from the list of CIS courses numbered 400-489.

**Rationale:** By removing all of the CSC courses from the list of possible electives, we ensure that our majors take only CIS electives that allow achieving our stated student learning outcomes. We have registered a new course CIS 421: Computer and Network Security. This course will have identical content to CSC 421. Lecture and laboratory sessions for CIS 421 and CSC 421 will be combined, and hence this new course will not require additional resources.

c. **Math co-requisites requirement**

**Current Status:** The Math co-requisites can be satisfied by taking MTH 243, MTH 281, and one of the following courses: MTH 201, 221, 343, 441, 461, 463, and 481.

**Proposed Change:** The Math co-requisites can be satisfied by taking MTH 243, MTH 281, and one of the following courses: MTH 201, 221, 441, and 461.

**Rationale:** MTH 343 is no longer offered by the Department of Mathematics. MTH 463 and MTH 481 have additional prerequisites which preclude students from choosing them.

d. **Information systems environment co-requisites requirement**

**Current Status:** The information systems environment co-requisites requirement can be satisfied by taking 15 credits, under advisement, from (but not limited to) one of the following disciplines: business administration, healthcare administration, recreation and leisure studies, and sports management.

**Proposed Change:** The information systems environment co-requisites requirement can be satisfied by taking 15 credits, under advisement, from one of the following disciplines: business administration and healthcare administration. Specifically, students must complete 15 credits of course work under one of the two options:

- Business Administration: ACC 280 or ACC 281 or ACC 282, BUS 325, BUS 335, BUS 365, and one BUS course from BUS 345-389, 420-475
- Healthcare Administration: ACC 280 or ACC 281 or ACC 282, BUS 365, HLS 410, HLS 412, and HLS 413

**Rationale:** This change is due to ABET’s expectation that the set of courses taken to satisfy the information systems environment co-requisites requirement have a strong emphasis on “processes that support the delivery and management of information systems”. Examples presented at the ABET-sponsored workshops indicate that business administration and healthcare administration are two areas that are most appropriate at Brockport for meeting ABET criteria.
e. **Prerequisites for courses**

**Current Status:** No course has a prerequisite chain of length more than 3.

**Proposed Change:** We have changed the prerequisites of a large number of courses through a careful analysis of the expected “advanced” level contents of these courses. Despite these changes, we have ensured that all courses have a prerequisite chain of length 3 or less.

**Rationale:** This restructuring will avoid overlap of content in some courses and ensure that advanced courses can cover topics at a greater depth. The current and the new prerequisites are included in this proposal.

f. **Minimum C requirement**

**Current Status:** A minimum grade of C is required in CSC 203, 205, CIS 202 and 303.

**Proposed Change:** A minimum grade of C is required in CSC 203, 205, 209, CIS 202, 206 and 303.

**Rationale:** Strengthening the graduation requirements.

g. **Credit by Examination**

**Current Status:** A maximum of six credits can be earned by “credit by portfolio assessment,” and a maximum of six credits can be earned by “departmental credit by examination.”

**Proposed Change:** Credits (1-4) for at most one course can be earned by “departmental credit by examination.”

**Rationale:** Feedback from the ABET visiting team; strengthening the graduation requirements.
### Existing Program

**Computer Information Systems**

For a major in computer information systems, a student must complete the following 65 credits of computer science, computer information systems, mathematics, and information systems environment courses. In addition, the grade for each of CSC 203, CSC 205, CIS 202 and CIS 303 must be “C” or better. Other restrictions apply. See Notes below.

#### A. Core Courses (35 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 203</td>
<td>Fundamentals of Computer Science I</td>
<td>4</td>
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<td>Fundamentals of Computer Science II</td>
<td>4</td>
</tr>
<tr>
<td>CSC 209</td>
<td>UNIX Tools</td>
<td>1</td>
</tr>
<tr>
<td>CSC 442</td>
<td>Electronic Commerce Technology</td>
<td>3</td>
</tr>
<tr>
<td>CSC 486</td>
<td>Junior/Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CIS 202</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 206</td>
<td>IT Tools</td>
<td>1</td>
</tr>
<tr>
<td>CIS 303</td>
<td>Information Technology Hardware</td>
<td>3</td>
</tr>
<tr>
<td>CIS 317</td>
<td>Analysis and Logical Design of Information Systems</td>
<td>4</td>
</tr>
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<td>CIS 419</td>
<td>Computer Networks and Internet Applications</td>
<td>3</td>
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<td>CIS 422</td>
<td>Physical Design and Implementation with DBMS</td>
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<td>CIS 427</td>
<td>Project Management and Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

#### B. Elective Courses (6 Credits)

Two CSC or CIS courses numbered 400-489, selected under advisement. See notes below.

#### C. Math Co-requisites (9 Credits)

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<thead>
<tr>
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#### D. IS Environment Co-requisites (15 Credits)

15 credits in a cohesive body of knowledge to prepare the student to function effectively as an IS professional. Select, under advisement, from (but not limited to) the following disciplines: business administration, healthcare administration, recreation and leisure studies, and sports management.

Total: 65

**Notes:**

1. The prerequisite for CSC 203 is CSC 120. The prerequisite for CIS 202 and CIS 206 is CSC 104 or CIS 106.
2. A student must take at least 30 credits in General Education courses.
3. The following CSC courses are NOT allowed as CIS electives: CSC 411, 419, 422, 427 and 434.
4. At least 18 of the credits used to satisfy the core or elective requirements in the major must be earned at Brockport.
5. A maximum of six credits can be earned by “credit by portfolio assessment,” and a maximum of six credits can be earned by “departmental credit by examination.”

### New Program

**Computer Information Systems**

For a major in computer information systems, a student must complete the following 65 credits of computer science, computer information systems, mathematics, and information systems environment courses. In addition, the grade for each of CSC 203, CSC 205, CIS 202, CIS 206 and CIS 303 must be “C” or better. Other restrictions apply. See Notes below.

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2. **Healthcare Administration:** ACC 280 or ACC 281 or ACC 282, BUS 365, HLS 410, HLS 412, and HLS 413

Total: 65

**Notes:**

1. The prerequisite for CSC 203 is CSC 120. The prerequisite for CIS 202 and CIS 206 is CSC 104 or CIS 106.
2. At least 18 of the credits used to satisfy the core or elective requirements in the major must be earned at Brockport.
3. Credits (1-4) for at most one course can be earned by “departmental credit by examination.”
### Current and New Prerequisites

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course title</th>
<th>Current prerequisite(s)</th>
<th>New prerequisite(s)</th>
</tr>
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<tbody>
<tr>
<td>CSC 104</td>
<td>Computers in the Business World</td>
<td>None</td>
<td>None</td>
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<tr>
<td>CSC 120</td>
<td>Introduction to Computer Science</td>
<td>MTH 111</td>
<td>MTH 111</td>
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<tr>
<td>CSC 203</td>
<td>Fundamentals of Computer Science I</td>
<td>CSC 120 and MTH 122</td>
<td>CSC 120 and MTH 122</td>
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<td>CSC 205</td>
<td>Fundamentals of Computer Science II</td>
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<tr>
<td>CSC 486</td>
<td>Junior/Senior Seminar</td>
<td>CSC 205 and Junior/Senior status</td>
<td>CSC 205 and Junior/Senior status</td>
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<tr>
<td>CIS 106</td>
<td>End-user Computing</td>
<td>None</td>
<td>None</td>
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<td>CIS 202</td>
<td>Fundamentals of Information Systems</td>
<td>CIS 106 or CSC 104</td>
<td>CIS 106 or CSC 104</td>
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<td>CIS 206</td>
<td>IT Tools</td>
<td>CIS 106 or CSC 104</td>
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<td>CIS 303</td>
<td>Information Technology Hardware and Software</td>
<td>CIS 202, CSC 209, and MTH 281</td>
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<td>CIS 317</td>
<td>Analysis and Logical Design of Information Systems</td>
<td>CIS 202, CIS 206 and CSC 203</td>
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<td>Multimedia and Human-Computer Interaction</td>
<td>CIS 206 and CIS 303</td>
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<td>CIS 419</td>
<td>Computer Networks and Internet Applications</td>
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<td>CIS 303, CSC 205 and CSC 209</td>
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<td>CIS 421</td>
<td>Computer and Network Security</td>
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<tr>
<td>CIS 422</td>
<td>Physical Design and Implementation with DBMS</td>
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<tr>
<td>CIS 427</td>
<td>Project Management Practice</td>
<td>CIS 206 and CSC 205</td>
<td>CIS 205</td>
</tr>
<tr>
<td>CIS 434</td>
<td>Decision Support and Expert Systems</td>
<td>CIS 202, CIS 206, and CSC 203</td>
<td>CIS 206 and CSC 203</td>
</tr>
<tr>
<td>CIS 436</td>
<td>Data Mining</td>
<td>CIS 422</td>
<td>CIS 422</td>
</tr>
<tr>
<td>CIS 442</td>
<td>Electronic Commerce Systems</td>
<td>CIS 422 and CSC 209</td>
<td>CIS 422 and CSC 209</td>
</tr>
</tbody>
</table>

### Catalog Description for New Courses

**CIS 421: Computer and Network Security**

*Prerequisite: CIS 419.* Studies concepts, techniques, and tools in computer and network security. Includes these topics: security, privacy, information assurance, threats, user authentication and access control; UNIX and Windows examples; logs and intrusion detection; cryptography, public-key and private-key systems, Kerberos, IP security, firewalls, Web and database access control and security issues; ethical issues. Includes hands-on experience with security hardware and software. Closed to students who have received credit for CSC 421. 3 Cr. Spring.

**CIS 442: Electronic Commerce Systems**

*Prerequisites: CIS 422 and CSC 209.* Covers defining tools of e-business, to understand the manner in which users, tools, needs and opportunities interact. Includes these topics: the infrastructure of e-commerce, e-commerce Web site design and implementation, social, political and ethical issues associated with e-commerce, and business plans for technology ventures. Real world applications and cases are studied to introduce concepts related to the analysis, design, implementation and maintenance of e-commerce systems. Closed to students who have received credit for CSC 442. 3 Cr. Fall.

### Staffing Issues

The proposed changes only consist of replacing a 3-credit e-commerce technology course by another 3-credit one, placing some restrictions on allowed electives, and changing some prerequisites. The department has enough faculty resources to support these changes. No new faculty or other resources are requested.
6. Academic Administration Commentary
The proposed changes are as a result of extensive discussion in the department’s Curriculum Committee. It has the full support of the department.

7. Resources and Facilities
Existing facilities are sufficient for implementing the proposed changes. No new facilities are requested.

8. Letters of Support
   Dr. Kad Lakshmanan, Chair, Department of Computer Science
   Dr. Stuart Appelle, Dean, School of Science and Mathematics

The Curriculum Committee of the Department of Computer Science, which includes me as a member, approved this proposal on February 02, 2010 by majority vote. I support the proposed changes.

Kad Lakshmanan, Professor and Chair, Computer Science
February 04, 2010

From: "Stuart Appelle" <sappelle@brockport.edu>
To: "'Kad Lakshmanan'" <klakshma@brockport.edu>
Subject: College Senate Proposal
Date: Thu, 4 Feb 2010 11:26:34 -0500
Organization: The College at Brockport

Kad:

I support the proposed changes specified in your College Senate proposal submission "Restructuring the Major in Computer Information Systems".

Stuart Appelle, Ph.D.
Dean, School of Science and Mathematics
350 New Campus Drive
The College at Brockport
State University of New York
Brockport, New York 14420