

4-22-2002

Revision of B.S. Program in Computational Science: Phase II from Fall 2001 adds 4 credits to the Application Sciences portion of the curriculum that were removed in the fall semester

The College at Brockport, College Senate

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SUNY BROCKPORT

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**Resolution #26
2001-2002
FACULTY SENATE**

TO: Dr. Paul Yu, College President

FROM: The Faculty Senate Meeting on: *April 22, 2002*

- RE: ⇨
- I. Formal Resolution (*Act of Determination*)
 - II. Recommendation (*Urging the Fitness of*)
 - III. Other, For your Information (*Notice, Request, Report, etc.*)

SUBJ: *Revision of B.S. Program in Computational Science: Phase II from Fall 2001 Adds 4 Credits to the Application Sciences Portion of the Curriculum That Were Removed in the Fall.*

Signed: *Jennifer M. Lloyd* Date Sent: *5/2/02*
(Jennifer Lloyd, Faculty Senate President)

TO: The Faculty Senate
FROM: Dr. Paul Yu, College President

- RE: **I. Decision and Action Taken on Formal Resolution** (circle)
- (a) Accepted. Effective Date: *9/1/02 or first opportunity for publication.*
 - 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: *Faculty Senate, President's Staff, Deans Council, Karla Merrifield*

Distribution Date: *5/9/02* Signed: *Paul Yu*
(Dr. Paul Yu, President, SUNY College at Brockport)

4/25/2002

To: Greg Garvey
Chair, Undergraduate Curriculum
Faculty Senate

From: Osman Yasar
Chair, Dept. of Computational Science

Subject: Revision of Application Science component of CPS major/minor

Dear Greg,

Last semester, the Faculty Senate approved replacement of CSC205 (4 credits) with CSC203 (4 credits). This change resulted in a reduction of 4 credits of the total credit (requirement plus prerequisites).

The proposed revision adds 4 credits to the Application Science component of our curriculum; thereby restoring the total number of credits (requirements plus prerequisites) back to 58 credits.

If approved, then in fall 2002, the net effect on total number of credits will be zero.

This revision will create a better preparation for our majors regarding their Application Sciences component. It will also make it compatible with minor requirements of many applications areas (physics, chemistry, biology, etc) in case the student chooses to satisfy the requirement via a minor.

We also seek a revision in our own minor to reduce the number of Electives from 8 to 6, resulting in a total of 18 credits which makes it compatible with other minors in programs our students mostly work with. It also puts our minor into a more reasonable perspective with our major. Currently the number of Application Science/Elective credits is 8 for both major and minor.

There is no need for additional resources. Major Application Science departments (Physics, Chemistry, and Biology) departments have been consulted. We see almost no impact on campus. We will be happy to follow any advise from your committee before a formal package is prepared for the Executive Committee and the Faculty Senate.

Sincerely Yours,

Osman Yasar

PROPOSED REVISION in B.S. PROGRAM IN COMPUTATIONAL SCIENCE

Required Courses:	
Mathematics courses (9 credits)	
Calculus III (MTH 203)	3
Elementary Statistics (MTH 243)	3
Linear Algebra (MTH 424)	3
Computer Science Courses (4 credits)	
Fundamentals of Computer Science (CSC 203)	4
Computational Science Courses (15 credits)	
Computational Tools I (CPS 201)	3
Computational Tools II (CPS 202)	3
High Performance Computing (CPS 303)	3
Simulation and Modeling (CPS 304)	3
Applied and Computational Mathematics (CPS 404)	3
Application Sciences (8 credits) (12 credits) 200-level and higher courses from an area of application chosen under advisement.	
Elective Courses (6 credits) (upper-division courses)	
<ol style="list-style-type: none"> Students do not have to limit their Application Sciences and Elective courses to one area. However, students who concentrate on ONLY one area (X) of Application Sciences and Electives are considered to have a <i>Computational-X</i> concentration, subject to advisor's approval. Students with a <u>minor</u> in an area (X) with 18 or more credits will have <u>automatically</u> satisfied the Application Sciences and Electives requirement and considered to have a <i>Computational-X</i> concentration. No minor course will count towards more than one component of the CPS degree. 	14 18
Prerequisites:	
Calculus I & II (MTH 201 & 202 - 6 credits)	
Discrete Mathematics I (MTH 281 - 3 credits)	16 12
Introduction to Computer Science (CSC 120 - 3 credits)	
Fundamentals of Computer Science (CSC 203 - 4 credits)	
TOTAL Credits	58