

5-4-1992

Change in Computer Science Requirements

The College at Brockport, College Senate

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Resolution #14 1991-92

TO: President John E. Van de Wetering

FROM: The Faculty Senate Meeting on 5/4-5/11/92
(Date)

RE: X I. Formal Resolution (Act of Determination)
II. Recommendation (Urging the fitness of)
III. Other (Notice, Request, Report, etc.)
For your information

SUBJECT: Change in Computer Science Requirements



Signed Edward J. Van Duzer Date Sent 6-2-92
(For the Senate)

TO: The Faculty Senate

FROM: President John E. Van de Wetering

RE: I. Decision and Action Taken on Formal Resolution

- a. Accepted. Effective Date July 92
- b. Deferred for discussion with the Faculty Senate on _____
- c. Unacceptable for the reasons contained in the attached explanation

II, III.

- a. Received and acknowledged
- b. Comment:

DISTRIBUTION: See attached list
(Call Faculty Senate for
full resolution)

Distribution Date 6/10/92 Signed: [Signature]
(President of the College)

BRACKPORT

State University of New York
College at Brockport
Brockport, New York 14420
Department of Computer Science
(716) 395-2194

April 7, 1992

To: Prof. Emory Morris,
Chair, Senate Undergraduate Curriculum Committee

Fr: T.M. Rao
Chair, Department of Computer Science



Re: Changes in Computer Science requirements:
CSIS Track
CS Track
Minor Program in Computer Science

FOR APPROVAL BY THE COMMITTEE AND THE FACULTY SENATE

As you are aware, the Department of Computer Science created two tracks in Computer Science major (called CS Track and CSIS track) in Spring 1991. These tracks come into existence effective Fall 1992. During Fall 1991, our Department went through program review and in response to reviewers' comments we wish to implement some revisions to the two tracks. These changes also necessitate corresponding changes in Computer Science Minor requirements.

1. a) Add a new 2-credit course "CSC 486: Senior Seminar" course to the core requirements of the CS Track. This increases the core requirements from 31 to 33 credits.

** The course has just been introduced and registered with the Dean's Office

** The new course serves several purposes: 1. It will be our "writing in the discipline" course; 2. This will contain a component in ethics in computer science.

** This will increase the total computer science requirement in CS track from 43 to 45 credits.
2. a) Add the same 2-credit Senior Seminar course to the core requirements of the CSIS Track. This increases the core requirements from 22 to 24 credits.

** This will increase the total computer science requirement in CSIS track from 37 to 39 credits.
3. Institute a new policy, applicable to both tracks:
"Solely Language teaching courses", such as CSC 317, CSC 318 CANNOT be counted as electives in the major.
4. Institute a new policy, applicable to both tracks:
"CSC 492: Computer Science Internship can only be taken for 3 credits." (6-credit internships will not be offered any more)
5. Institute a new policy, applicable to both tracks:
"Only ONE of the three Math courses: MTH 461, MTH 462 and MTH 471 can be counted as an elective course in Computer Science"
6. Increase Core Requirements for Computer Science Minor from 18 credits to 21 credits. This is necessitated because of the increase in the number of credits for three required courses from 3 to 4. (This increase was approved by Faculty Senate in Spring 1991 and will become effective in Fall 1992.)

THE MAJOR IN COMPUTER SCIENCE

Extract from
CS Hand book.

This section lists only the minimum requirements; students are encouraged to take computer science and mathematics courses beyond the minimum to deepen and broaden their expertise.

The Major in Computer Science, CSIS track (42 credits)

Requested changes
have been included

For a major in computer science with the Computer Science and Information Systems (CSIS) track, a student must complete the following 42 credits of computer science and mathematics courses with an average grade of C or better. In addition, the grade for each of CSC 203, CSC 205, and CSC 311 must be C or better. Other restrictions apply; see "Restrictions on credits in the major," below.

	Credits
(a) Core courses (24 credits)	
CSC 203 Fundamentals of Computer Science I	4
CSC 205 Fundamentals of Computer Science II	4
CSC 311 Assembly Language Programming	4
CSC 401 Theory of Programming Languages	3
CSC 406 Advanced Data Structures	4
CSC 411 Computer Architecture	3
CSC 486 Senior Seminar	2
(b) Elective courses (15 credits)	
300- or 400-level courses selected under advisement. See "Restrictions," below.	15
(c) Mathematics corequisite (3 credits)	
MTH 481 Discrete Mathematics II*	3
*Prerequisites:	
MTH 281 Discrete Mathematics I (3 credits)	
MTH 201 Calculus I (3 credits)	
TOTAL	42
TOTAL INCLUDING MATH PREREQUISITES	48

*48 credits if prerequisites to Discrete Mathematics II are counted.

The Major in Computer Science, CS track (68 credits)

The major in computer science with the Computer Science (CS) track requires a minimum of 68 credits, 20 credits more than the Computer Science and Information Systems (CSIS) track: an additional 6 credits in mathematics, and 14 credits in science.

For a major in computer science with the Computer Science (CS) track, a student must complete the following 68 credits of computer science, mathematics, and science courses with an average grade of C or better. In addition, the grade for each of CSC 203, CSC 205, and CSC 311 must be C or better. Other restrictions apply; see "Restrictions on credits in the major," below.

Handwritten notes: "exam board", "stand by"

Credits

(a) Core courses (33 credits)

CSC 203	Fundamentals of Computer Science I	4
CSC 205	Fundamentals of Computer Science II	4
CSC 311	Assembly Language Programming	4
CSC 401	Theory of Programming Languages	3
CSC 406	Advanced Data Structures	4
CSC 411	Computer Architecture	3
CSC 412	Operating systems	3
CSC 427	Software Engineering	3
CSC 483	Theory of Computation	3
CSC 486	Senior Seminar	2

(b) Elective courses (12 credits)

300- or 400-level courses selected under advisement.
See "Restrictions," below.

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(c) Mathematics corequisites (9 credits)

- MTH 481 Discrete Mathematics II*
- MTH 202 Calculus II
- MTH 346 Probability and Statistics I

*Prerequisites:

- MTH 281 Discrete Mathematics I (3 credits)
- MTH 201 Calculus I (3 credits)

(d) Science corequisites (14 credits)

Two courses forming a two-semester sequence in a laboratory science for science or engineering majors. For example, PHS 201-202, CHM 205-206, BIO 201-202, ESC 201-211; and

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Two courses, each of which is a course in science or a course that enhances the student's abilities in the application of the scientific method. Each course must be a course for science or engineering majors, or a course with a strong emphasis on quantitative methods. For example, two courses chosen from PHS 301, PHS 309, CHM 303, CHM 305.

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TOTAL 68

TOTAL INCLUDING MATH PREREQUISITES 74

RESTRICTIONS ON CREDITS IN THE MAJOR

- (a) The courses CSC 317 and CSC 318 cannot be counted towards the major elective requirement.
- (b) At most 6 credits from courses numbered 490-499 may be counted towards the major elective requirement.
- (c) At most one of the courses MTH461, MTH462, and MTH471 can be counted towards the major elective requirement.
- (d) At least 18 of the credits used to satisfy the core or elective requirements in the major must be earned at SUNY Brockport.
- (e) A maximum of 6 credits can be earned by "credit by portfolio assessment," and a maximum of 6 credits can be earned by "departmental credit by examination."