SIMON FRASER UNIVERSITY

S.75-101

MEMORANDUM

To SENATE	From SENATE COMMITTEE ON UNDERGRADUATE STUDIES
Subject RENUMBERING OF CMPT 100-3 TO CMPT 105-3	Date JUNE 18, 1975

MOTION: "That Senate approve the renumbering of CMPT 100-3 to CMPT 105-3, as set forth in S.75-101."

Note: If this proposal is approved, CMPT 100-3 will be discontinued. The reference in the calendar to CMPT 100-3 as prerequisite or for usability will be replaced by reference to CMPT 105-3.

S.75-101

SIMON FRASER UNIVERSITY

MEMORANDUM

To: SENATE

From: SENATE COMMITTEE ON UNDERGRADUATE STUDIES

Subject: RENUMBERING OF CMPT 100-3 TO CMPT 105-3

Date: JUNE 18, 1975

At its meeting of May 20, 1975 the Senate Committee on Undergraduate Studies considered the attached proposal to change the number of CMPT 100-3 to CMPT 105-3. It should be noted that, if this proposal is approved, CMPT 100-3 will be discontinued. The reference in the calendar to CMPT 100-3 as prerequisite or for usability will be replaced by reference to CMPT 105-3.

This proposal is forwarded to Senate with the Committee's recommendation that it be approved.

I. Mugridge

SCUS 75-28

SIMON FRASER UNIVERSITY

MEMORANDUM

To: Mr. H. M. Evans, Secretary, Senate Committee on Undergraduate Studies.

From: J. Blanchet, Secretary, Faculty of Interdisciplinary Studies Undergraduate Curriculum Committee.

Subject: Computing Science - change of Course #.

Date: April 22/75.

Attached is a proposal to change the course number of Cmpt. 100-3 to Cmpt. 105-3. This number change was approved by the Faculty of Interdisciplinary Studies Undergraduate Curriculum Committee at its meeting of April 16/75.

Would you please place this item on the agenda of the Senate Committee on Undergraduate Studies.

J. Blanchet

Attachment.

RECEIVED
APR 23 1975
REGISTRAR'S OFFICE
(Office Services)

JJW:ek
Enc.

I.S.C. 75-5.

SIMON FRASER UNIVERSITY

MEMORANDUM

To: Mrs. J. Blanchet, Secretary
Faculty of Interdisciplinary
Studies Curriculum Committee

From: Dr. J.J. Weinkam
Computing Science Program

Subject:

Date: February 17, 1975

Would you please place the following item on the Agenda for the next meeting of the Faculty of Interdisciplinary Studies Curriculum Committee.

At its meeting of January 27, 1975, the Computing Science Faculty discussed the 100 level courses and decided to request that the course CMPT 100 be re-numbered CMPT 105. The rationale for this proposed change is that students seeking to take just one computing course frequently select CMPT 100 because it is the lowest numbered 100 level course. As a matter of fact, CMPT 100 is a very basic course and is essential for all students who wish to go on in computing. However, CMPT 103 also is required for all students who go on to take other courses in computing, so a student who takes CMPT 103 and later changes his mind and wishes to go on will have lost nothing. On the other hand, the vast majority of students who wish to take only a single course in computing should probably select either CMPT 103 or CMPT 001. Our experience has been that many students do not seek advice but rather register for the lowest numbered 100 level course. This leads to a great deal of dropping and adding and confusion which this proposed change should help to reduce.

JJW:ek
Enc.

NUMBER CHANGE ONLY

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

1. Calendar Information

Department: *COMPUTING SCIENCE*

Abbreviation Code: *CMPT* Course Number: *105* Credit Hours: *3* Vector: *3-1-0*

Title of Course: *INTRODUCTION TO COMPUTING*

Calendar Description of Course:

This course introduces the fundamental concepts and procedures by which problems are defined, described, and implemented on computing machines. The students learn principles of algorithms and their implementation through computer compatible languages. CMPT 105 (formerly CMPT 100-3) is a prerequisite to most courses in Computing Science.

Nature of Course *LECTURE/TUTORIAL*

Prerequisites (or special instructions):

Students with credit for *CMPT 100-3 may not take this course for further credit.*

What course (courses), if any, is being dropped from the calendar if this course is approved:

CMPT 100-3

2. Scheduling

How frequently will the course be offered? *Every semester*

Semester in which the course will first be offered?

Which of your present faculty would be available to make the proposed offering possible? *All faculty*

3. Objectives of the Course

a) *The objective of this course is to introduce the student to the basic concepts and techniques through which problems may be solved by machine and to the fundamental role played by languages and the statement of problems and their solution by machine.*

b) *See attached.*

c) *This course does not overlap any existing courses.*

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty	*NONE*
Staff	*NONE*
Library	*NONE*
Audio Visual	*NONE*
Space	*NONE*
Equipment	*NONE*

5. Approval

Date: April 22, 1975 April 22 1975 _____

_____ _____ _____

Department Chairman Dean Chairman, SCUS

SCUS 73-34b:- (When completing this form, for instructions see Memorandum SCUS 73-34a. Attach course outline).

Syllabus for the Basic Core Course in Computing Science:
INTRODUCTION TO CONCEPTS AND PROCEDURES - CMPT 105-3 (3-1-0)

This course introduces the student to the concepts and techniques through which computers may be made to implement procedures and solve problems. The student learns increasingly powerful languages for a succession of progressively complex machines that enable him to solve more and more sophisticated problems.

The sequence of machines and languages for specifying procedures for them are taught with the aid of special simulators that have been implemented on the Simon Fraser computer. The historical growth of concepts relevant to computing is included whenever possible.

Course topics include :

1. *Problem solving.*
2. *Flowcharting: The most basic of computing machines - Turing machines.*
3. *Organizational concepts of modern computers.*
4. *Notation for representing alphabetic, numeric, and other characters in a form that can be handled by automatic devices.*
5. *Implementing programs using a prototype machine language.*
6. *Algorithms and problem solving logic.*
7. *Fundamental concepts surrounding the construction and use of assemblers machine language as the basis. A number of problems are solved using a simulated symbolic assembler.*
8. *The elements of high level languages.*
9. *Description of hardware features of modern computers and of related software that makes possible the implementation of processing aims.*

Text: *Sterling, T.D., Weinkam, J.J., and Pollack, S.V., Universal Syllabus: Introduction to Computing Science, 1975.*