

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Policy Statement

April 9, 1982

Number: 82-03

File: Certificate

This curricular program recommended by the Planning and Educational Policies Council on February 4, 1982, reviewed by the Academic Senate in its meeting of March 4, 1982, was approved by the President on April 9, 1982.

SUBJECT: CERTIFICATE IN COMPUTER APPLICATIONS IN THE LIBERAL ARTS

This program gives students a broad background in applications of computers preparing them to be effective computer users. It involves 24 to 27 units of coursework covering a variety of areas of computer utilization. Among the skills to be acquired would be:

- Knowledge of computers and information systems sufficient to permit graduates to communicate effectively with computer experts.
- Ability to serve as a liaison between colleagues who lack computer expertise and technical computer personnel.
- Ability to run applications programs and explain the results to colleagues.
- Skills in the use of information systems.
- Ability to identify needs for and benefits derived from implementation of computer systems in an applications area.

REQUIREMENTS FOR THE CERTIFICATE IN COMPUTER APPLICATIONS:

- 1) A bachelor's degree (may be completed concurrently)
- 2) Completion of at least eight approved computer applications courses (with a grade of C or higher)
- 3) Approval from the Director of the Certificate Program for the student's course selections.

The coursework for this Certificate is organized into several categories which are listed below. The first four categories contain required courses. Students must complete all of the courses in the first four categories for a total of 15 or 16 semester units. The remaining categories include elective courses. Students must take four of these courses, including at least one from each category, for a total of twelve semester units. It is acceptable to substitute upper-division courses on computer applications which apply directly to the student's major area of study (or a directed studies course for this purpose) for one of the elective categories. Such substitutions require prior approval of the Director of the Program.

Most students will take nine courses (27-29 units) in order to obtain the certificate. Students entering the program with sufficient prior computer experience may omit the Introduction to Computers course if they receive approval from the Director of the Program. Thus, these students will only need to complete eight courses for the Certificate. Students seeking the Certificate in conjunction with a bachelor's degree may also count courses taken to complete the Certificate towards completion of their major (or the University general education requirements) where applicable.

REQUIRED COURSE CATEGORIES

(Students must complete all of the courses in these categories for a total of 15 or 16 semester units)

I. Introduction to Computers and Computer Programming

CST 200	Introduction to Data Analysis (3) or equivalent, and
CST 280	Introduction to APL (3) or
MATH 272	Techniques of Programming (4) or
MATH 273	COBOL Programming (3)

II. Social Impact of Computers

EE 345	Computers' Role in Today's Society (3)
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III. Seminar in Computer Applications

CST 493	Seminar in Computer Applications (3)
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IV. Information Systems

IM 440	Information Systems (3)
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ELECTIVE COURSE CATEGORIES

(Students must complete four of the following courses, one of which must be from each category, for a total of 12 or 13 semester units.)

I. Human/Computer Interface

CST	311	Human Interface Design (3)
CST	312	Non-numeric Information Processing (3)
ENGL	317	Technical Writing (3)
IM	411	Self-Paced Instructional Design (3)

II. Data Analysis

CST	210	Computer Statistics (3)
CST	477	Advanced Data Analysis (3)
ECON	380	Economic Statistics (3)
GEOG	490	Quantitative Methods (3)
PSY	310	Intermediate Statistics (3)

III. Specialized Applications

ECON	486	Introduction to Econometrics (3)
ENGL	498	Computational Linguistics (4)
PSY	418	Computer Applications in Psychology (3)
IM	441	Designing Computer Assisted Instruction (3)

EFFECTIVE: FALL 1982

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