

COMPUTER INFORMATION SYSTEMS Certificate Program

This certificate program is designed for the working student who has achieved a career-oriented position in a computer programming or related business area, and desires to improve his/her skills. Students take a basic core of 18 credits and then choose a 12-credit option in *Computer Programming* or *Microcomputer Applications Software*.

Graduates of this program are qualified to work as programmers, junior systems analysts, and junior management trainees dependent upon prior work experience. Students who have little or no training in data processing or computer programming may upgrade their career potential by becoming programmer trainees, operators of computer equipment, input/output control and record maintenance clerks. A broad range of industrial and governmental employment opportunities in computer information systems is currently available and these opportunities are expected to grow in the future. They cover diversified areas, including the business, scientific, social science, educational, and medical fields.

This program is offered in day and evening sessions. All courses carry college credit and may be applied toward an Associate or Bachelor's degree.

Students are advised to check course descriptions for prerequisites and corequisites.

Students with Data Processing/Computer Programming Experience may earn credit for specific required courses through written examinations. Course credit granted for work/study experience is limited to 6 credits.

GENERAL EDUCATION CORE REQUIREMENTS		Credits
EN-101	English Composition I.....	3
	Liberal Arts and Sciences electives*	6
		Sub-total 9

REQUIREMENTS FOR THE MAJOR		
BU-500	Introduction to Microcomputer Applications	3
BU-520	Introduction to Computer Programming for Business	3
BU-509	Projects in Data Processing.....	3
		Sub-total 9

Options (Choose A or B)

A. COMPUTER PROGRAMMING OPTION		
BU-502	COBOL Programming	3
BU-504	Systems Analysis and Design with Business Applications.....	3
BU-522	Business Programming with Visual Languages.....	3
BU-532	Microcomputer Operating Systems and Utility Software.....	3
		Computer Programming Option Sub-total 12

B. MICROCOMPUTER APPLICATIONS SOFTWARE OPTION		
BU-508	Data Base Management Systems	3
BU-530	Spreadsheet Applications	3
BU-532	Microcomputer Operating Systems and Utility Software.....	3
BU-859	Desktop Publishing (Software).....	3
		Microcomputer Applications Software Option Sub-total 12

Total Credits Required30

*See section on Understanding Program Requirements.

