



COMPUTER SCIENCE

Degree Options:

- Associate of Science
- Associate of Arts

Program Description:

Students can complete the Associate Degree with an emphasis in Computer Science - Programming in two or three years, depending on their entry math level.

The recommended course of study is as follows:

TWO YEAR PROGRAM

First Year:

	<u>Fall Semester</u>		
MATH 1210	Calculus I or ***	.....	4*
CS 1400	Fund. of Programming	..	3*
CS 1405	Programming Lab	.....	1*
ENGL 1010	Introduction to Writing	...	3
COMM 1020	Public Communication	...	3
	Social Science Requirement	.....	3
	Semester Total	.....	17

	<u>Spring Semester</u>		
CS 1410	Object-Oriented Prog	...	3*
ENGL 2010	Intermediate Writing	....	3*
MATH 1220	Calculus II	.....	4*
BCIS 1560	Java Programming		
	-or-		
BCIS 2550	Fundamentals of Fortran		
	-or-		
BCIS 2570	Assembly Language Programming	.....	3* or 4*
	Earth Science Requirement	.....	3
	Semester Total	.....	16 or 17

	<u>Summer Semester</u>		
	Humanities Requirement	.....	3
	Fine Arts Requirement	.....	3
	Semester Total	.....	6

Second Year:

	<u>Fall Semester</u>		
	American Institutions	.....	3
MATH 2270	Linear Algebra	.....	3*
BCIS 2420	Intro. to Algorithms/Data St	3*	

ELEC 1150	Digital Systems Theory	..	4*
ELEC 1160	Digital Systems Lab	....	1*
PHYS 2210	Physics for Scientists & Engineers I or ****	.....	4*
PHYS 2215	Physics for Scientists & Engineers I Lab or ****	...	1
	Semester Total	.....	19

Spring Semester

MATH 2220	Discrete Mathematics	..	3*
MATH 2280	Ordinary Differential Equations	.....	3*
BCIS 2370	Software Engineer or ***		4*
	Computer Architecture** or ***	.....	3*
	Life Science Requirement	.....	3
	Humanities or Fine Arts Requirement	...	3
	Semester Total	.....	19

Program Total 77-78

*Class has pre-requisite and/or co-requisite
**Class will likely be offered over EDNET and/or video tape.

***Students can choose certain courses from Computer Science, Mathematics, Physics, Engineering, Electronics, Chemistry, Life Science, and other approved disciplines. MATH 2040 Statistics will be quite helpful at your transfer school. As will MATH 2210 Multi-variable Calculus (Calculus III).

****Students can take CHEM 1210 & 1215 (General Chemistry I and Lab) 4 & 1 credit respectively, or 5 credits of approved Technical Electives. If possible, try to take the chemistry during one of the Spring semesters. Also, PHYS 2220 & 2225 may also be required at your transfer school.

Student must demonstrate computer literacy by passing the CEU computer literacy test (requirement is waived - no credit given), or passing an approved class (credit will be given and counted towards electives).

Two year program spread over three years is available from the department advisor.

PLEASE REFER TO THE CEU GENERAL CATALOG FOR A LISTING OF AA/AS GENERAL EDUCATION COURSES & DEGREE REQUIREMENTS.

For more information contact:

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