PROGRAM OF STUDY

Computer Science Associate in Science

The Computer Science program is designed to address problems in organizing, representing, manipulating, and presenting information in an automatic processing environment. Computerized information systems are being developed and used in almost every field where information must be processed. The goal of the Computer Science program is to provide understanding of the functions of the modern computer and operational skills in programming. The following list is a sample of the many career options available for the computer science major. While a few require an associate degree, most require baccalaureate degrees and some require a graduate degree: programmer, computer hardware specialist, data base specialist, computer operator, systems analyst, programmer analyst, software engineer, and instructor.

Student Learning Outcome:
Identify, evaluate, analyze, and present fundamental software solutions and their applications.

Program Requirements:		**Units**
CMPSCI 111	Introduction to Algorithms & Programming/Java	3 - 0
CMPSCI 111L	Introduction to Algorithms and Programming Lab	1 - 0
CMPSCI 122	Computer Architecture and Assembly Language	3 - 0
CMPSCI 182	Data Structures and Program Design	3 - 0
CMPSCI 182L	Data Structures and Program Design Lab	1 - 0
CMPSCI 235	'C' Programming	3 - 0
CMPSCI 282	Advanced Data Structures	3 - 0

Plus six units from the following:		**Units**
CMPSCI 132	Introduction to Programming	3 - 0
CMPSCI 190	Web Programming: Javascript	3 - 0
CMPSCI 192	PHP Programming	3 - 0
CMPSCI 222	Computer Organization	3 - 0
CMPSCI 236	C++ Object Oriented Programming	3 - 0
PHILOS 230	Symbolic Logic	3 - 0

Plus thirteen units from the following (for Transfer students)		**Units**
MATH 211	Calculus I	5 - 0
MATH 212	Calculus II	5 - 0
MATH 214	Linear Algebra	3 - 0

OR

Plus thirteen units from the following (for Non-Transfer students)		**Units**
MATH 211	Calculus I	5 - 0
	and	

Eight additional units from the above CMPSCI courses that have not already been taken

Total Units	**36**

PID 47