**PROGRAM OF STUDY**

Associate in Science in Computer Science for Transfer (A.S.-T)

**Associate in Science in Computer Science for Transfer (A.S.-T Computer Science)**

The Associate in Science in Computer Science for Transfer (A.S.-T Computer Science) prepares students to transfer into the CSU system. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the Associate in Science in Computer Science for Transfer (A.S.-T Computer Science) also provides guaranteed admission with junior status to the CSU system, although does not guarantee acceptance to a particular campus or major. See the current SAC catalog for a list of additional requirements\* for all Associate in Arts for Transfer (A.A.-T) and Associate in Science for Transfer (A.S.-T) degrees. Upon completion of the A.S.-T in Computer Science (A.S.-T Computer Science), students will be well versed in the use of standard computer control structures to solve problems and develop algorithms. They will have developed skills in writing programs that utilize functions as a method of program organization and control. Additional areas of emphasis will include objects, object-oriented programming, data structures and abstract data types. Computer science students will also obtain knowledge of computer architecture and organization. The Computer Science curriculum also requires the student to have significant skills in mathematics and the applications of those skills to real world problem solving.

**\*NOTE: Only IGETC (Plan C) will be accepted toward completion of the general education portion of this degree. Unlike other Associate Degrees for Transfer, CSU-GE (Plan B) completion will NOT be accepted for this degree.**

**Required Core (29 units)**

CMPR 121 Programming Concepts 3

CMPR 131 Data Structures Concepts 3

CMPR 129 Introduction to Computer Organization 4

CMPR 140 Discrete Structures for Computer Science 3

MATH 180 Analytic Geometry and Calculus I 4

MATH 185 Analytic Geometry and Calculus II 4

PHYS 217 Engineering Physics I 4

PHYS 227 Engineering Physics II 4

**Total Units 29**