**LOS MEDANOS COLLEGE**

 **THE ASSOCIATE OF SCIENCE IN COMPUTER SCIENCE FOR TRANSFER DEGREE**

The Associate in Science in Computer Science for Transfer Degreeis designed for students desiring advanced degrees in Computer Science. The Los Medanos College Computer Science courses meet the lower division transfer requirements for Computer Science. The curriculum includes the first and second year requirements to prepare students to transfer and study at a California State University. A baccalaureate degree is the recommended preparation for those considering professional careers in Computer Science.

The Program Student Learning Outcomes for the Associate in Science in Computer Science for Transfer Degree:

1. Be academically prepared to transfer to a Computer Science program at a four-year university.
2. Demonstrate the ability to solve a variety of problems using computational skills necessary for careers in computer science and other related fields.

To achieve the Associate in Science in Computer Science for Transfer Degree, students must (1) complete 60 semester units or 90 quarter units that are eligible for transfer to the California State University (2) fulfill the Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements (3) complete a minimum of 28 semester units or 42 quarter units in the major area of emphasis, as determined by the community college district (4) obtain a minimum grade point average of 2.0 (5) earn a “C” grade or better in all course required for the major area of emphasis. A “P” (Pass) grade is not acceptable grade for courses in the major.

Note : To complete the degree at Los Medanos College with no more than 60 units, students must follow IGETC General Education Requirements. Students will not be able to complete the degree within 60 units following the CSU General Education Breadth Requirements. Therefore, students are highly encouraged to consult with their counselor when choosing general education classes.

Program Requirements:

Required Courses:

COMSC-122 Programming Concepts and Methodologies I 3

COMSC-132 Programming Concepts and Methodologies II 3

COMSC-142 Computer Architecture and Organization 3

MATH-160 Discrete Math 4

MATH-050 Calculus and Analytic Geometry I 4

And

MATH-060 Calculus and Analytic Geometry II 4

PHYS-040 Physics for Scientists and Engineers I 4

PHYS-041 Physics for Scientists and Engineers II 4

Total Units for the major 29

Total Units for the degree 60

**Sample 2-year Program:**

1st Semester 2nd Semester\_\_\_\_

Courses Units Courses Units

COMSC-122 3 COMSC-132 3

MATH-050 4 MATH-060 4

IGETC-GE 9 IGETC-GE 9

Total 16 Total 16

3rd Semester 4th Semester\_\_\_\_

Courses Units Courses Units

COMSC-142 3 MATH-160 4

MATH-070 4\* PHYS-041 4

PHYS-040 4 IGETC-GE 10

IGETC-GE 3

Total 14\* Total 18

Total Major Requirement: 29 units

Total Additional Requirement: 4 units\*

Total IGETC-GE Requirement: 31 units

Total Unit Requirement: 60 units\*

\*MATH-070 is a prerequisite/co-requisite for PHYS-041, therefore it does not count towards the 60 unit total.