

# COMPUTER SCIENCE



Following are selected titles held by individuals in the field of computer science (Source: MVC Career and Transfer Center):

Computer Maintenance Technician  
Computer Sales Representative  
Consultant to Businesses  
Cryptanalyst  
Game Programmer  
Information Architect  
Manufacturing Engineer  
Operations Research Analyst  
Telecommunications Programmer Analyst  
Web Developer



The MVC Career and Transfer Center's mission is to provide encouragement and guidance to students in their various stages of the lifelong career development process. The Transfer Center's mission is to bring awareness of the Transfer Center and the resources it provides in an effort to increase the number of students prepared for transfer to baccalaureate level institutions. During fall and spring transfer fairs, students have the opportunity to meet with various college and university representatives. The MVC Career and Transfer Center offers transfer counseling, appointment scheduling, and resume/cover letter review and provides college catalogs, computers with Internet access, transfer major sheets, and UC/CSU application assistance.

For more information, contact:

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**MORENO  
VALLEY  
COLLEGE**

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# Our Program



## Associate Degree for Transfer<sup>SM</sup>

### ASSOCIATE DEGREES FOR TRANSFER (ADT)

California community colleges are now offering Associate Degrees for Transfer (ADT) to California State University (CSU) institutions. ADT degrees are designed to provide a clear pathway to a major and baccalaureate degree from a CSU. California community college students who are awarded an A.A.-T. or A.S.-T. degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an A.A.-T. or A.S.-T. degree are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units. To view the most current list of Moreno Valley College Associate Degrees for Transfer and to discover which CSU campuses accept each degree, go to: <http://adegreewithaguarantee.com>.

Students are encouraged to meet with a Moreno Valley College counselor to review their options for transfer and to develop a Student Educational Plan (SEP) that best meets their goals.

### COMPUTER SCIENCE (IGETC) MAS650

The Associate in Science in Computer Science for Transfer Degree provides a solid preparation for transfer majors in computer science including an emphasis on object oriented programming logic in C++, computer architecture, calculus and calculus based physics. The intent of this degree is to assist students in seamlessly transferring to a CSU. With this degree students will be prepared for transfer to a university for upper-level classes in preparation for the eventual conferral of the bachelor's degree in Computer Science. The degree aligns with the approved Transfer Model Curriculum (TMC) in Computer Science.

#### Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Write programs utilizing the following data structures: arrays, records, strings, linked lists, stacks, queues, and hash tables.
- Write and execute programs in assembly language illustrating typical mathematical and business applications.
- Demonstrate different traversal methods of trees and graphs.



Required Courses (29 units)		Units
CIS-5	Programming Concepts and Methodology I: C++	4
CIS-7	Discrete Structures	3
CIS-11	Computer Architecture and Organization: Assembly	3
CIS-17A	Programming Concepts and Methodology II: C++	3
MAT-1A*	Calculus I	4
MAT-1B*	Calculus II	4
PHY-4A*	Mechanics	4
PHY-4B*	Electricity and Magnetism	4

\*Courses may also be used to fulfill general education requirements for the IGETC pattern. Please confer with a counselor.

#### Associate in Science for Transfer Degree

The Associate in Science in Computer Science for Transfer Degree will be awarded upon completion of 60 CSU-transferable units including the above major requirements and the Intersegmental General Education Transfer Curriculum (IGETC) requirements with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better. (Students completing this degree are not required to fulfill the RCCD graduation requirements found in section VII. Additional degree requirements: Health Education and Self Development.)

