

# Moreno Valley College



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

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-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 AA-T or AS-T 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 find out which CSU campuses accept each degree, please go to: Please visit the following website to see all your ADT options: <http://adegreewithaguarantee.com/> Students are encouraged to meet with a MVC counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

2017-2018

### COMPUTER SCIENCE

### IGETC)MAS650 ONLY

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 the student will be prepared for transfer to the university upper division level 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:	4
CIS-7	Discrete Structures	3
CIS-11	Computer Architecture and Organization:	3
CIS-17A	Programming Concepts and Methodology II:	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 Arts for Transfer Degree

The Associate in Arts for Transfer degree in Computer Science will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the Intersegmental General Education Transfer Curriculum (IGETC) requirements and 3-8 units of electives with a minimum grade point average of 2.0. To be admission eligible to the CSU, you will also need to complete the IGETC area 1C. All courses in the major must be completed with a grade of "C" or better.