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COMPUTER SCIENCE, ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science in Computer Science for Transfer degree (AS-T in Computer Science) provides students with sufficient understanding of computer science concepts, skills, and applications to attain upper-division status in computer science at a California State University, majoring in computer science, software engineering, or game programming. Successful completion of the Associate in Science in Computer Science for Transfer degree (AS-T in Computer Science) guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree, in preparation to pursue a career in the field of computer science. Students must complete the Associate Degree for Transfer requirements to earn the AS-T degree.

Learning Outcomes

Upon successful completion of the program, students will be able to:

- Design, implement, test, and debug a program using structured and object-oriented design principles.
- Write programs that use data structures such as arrays, records, strings, linked lists, stacks, queues, trees, and hash tables.
- Write programs in assembly language.
- Use formal tools of symbolic logic to model real-life situations, including those arising in computing contexts.

Associate in Science for Transfer Degree Major Requirements

Code	Title	Units
Required Core		
CSCI 10A	Programming Methods I: Java	4
CSCI 10B	Programming Methods II: Java	4
CSCI 11	Computer Architecture and Organization	3
CSCI 12	Discrete Structures	3
MATH 20A	Calculus with Analytic Geometry I	4
MATH 20B	Calculus with Analytic Geometry II	4
PHYS 3A	Science and Engineering Physics I	4
PHYS 3B	Science and Engineering Physics II	4
TOTAL MAJOR UNITS		
Additional Requirements		
Complete Cal-G transferable uni	ETC pattern and electives, if needed, for a total of 60 its.	
Total Units		60

Please refer to the program requirements section of the Catalog for information about associate degree requirements and certificate requirements including Information Competency, and General Education requirements.

The model sequence of coursework below is one pathway for students to complete the program. The information below is not an official educational plan. An MPC Counselor can assist you with creating a personalized education plan based on your academic, career, and personal goals. Visit MPC's Counseling website for more information about Counseling and up-to-date program requirements.

Suggested 2-Year Course Sequence

Year 1		
Fall		Units
ENGL C1000	Academic Reading and Writing	3
MATH 20A	Calculus with Analytic Geometry I	4
CSCI 10A	Programming Methods I: Java	4
Cal-GETC Area 4 (US-1 Course Recommended)		
	Units	14
Spring		
ENGL C1001	Critical Thinking and Writing	3
MATH 20B	Calculus with Analytic Geometry II	4
CSCI 12	Discrete Structures	3
Cal-GETC Area 4 (US-2 & 3 Course Recommended)	3
Cal-GETC Area 5B		3
	Units	16
Summer		
Cal-GETC Area 6		3
	Units	3
Year 2		
Fall		
CSCI 10B	Programming Methods II: Java	4
PHYS 3A	Science and Engineering Physics I	4
COMM C1000	Introduction to Public Speaking	3
Cal-GETC Area 3B		3
	Units	14
Spring		
CSCI 11	Computer Architecture and Organization	3
PHYS 3B	Science and Engineering Physics II	4
MATH 20C	Calculus of Several Variables	4
Cal-GETC Area 3A		
	Units	14
	Total Units	61

MPC transfer programs are designed to enable students to complete lower-division requirements in preparation for transfer to a baccalaureategranting institution.

The Student Transfer Achievement Reform Act (Senate Bill 1440, codified in California Education Code sections 66746-66749) guarantees admission to California State University (CSU) system for any community college student who earns an Associate Degree for Transfer (ADT), although not to a particular campus or major. Upon transferring to a CSU campus that accepts the Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T), students will be required to complete no more than 60 upper-division units to earn a bachelor's degree in a same or similar major (unless designated as a "high-unit" major).

The following Associate Degree for Transfer requirements must be completed to earn the AA-T or AS-T degree:

- a. Minimum of 60 CSU-transferable semester units;
- b. Minimum grade point average (GPA) of 2.0 in all CSU-transferable coursework (while a minimum of 2.0 is required for admission, some majors may require a higher GPA);
- c. Completion of a minimum of 18 semester units as detailed in the Major Requirements;
- d. Completion of all courses in the major with a grade of C or better (or a "P" if the course is taken on a "Pass/No Pass" basis);
- e. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

All students should consult with a Counselor to discuss transfer pathways and specific university admission requirements. Visit MPC's Counseling website for more information about Counseling services provided by MPC and to connect with a Counselor.