Computer/Information Systems
Computer Science: Associate in Science for Transfer
CSUSM – Option B

Computers are ubiquitous. They are in our hospitals, our educational institutions, our businesses, and our homes. In CIS you will explore how digital solutions are analyzed, developed, and implemented into artifacts that humans use every day. As a CIS graduate, the world will be your oyster. Your skills are in great demand in all fields of business, industry, and education.

Please see a Pathways Counselor: Create an education plan customized to meet your needs. Contact a Counselor

Transfer Majors/Award Focus
- Computer Science, A.S.-T CSU, CSUSM, UC
- Computer Information Systems, A.S., Focus: Authoring, Networking, Programming: General, Database, Web
- Internet Authoring, Networking, Programming Certificate

GE Pattern/Units
- GE Pattern: Option B
- Total Units: 69

Program maps indicate the major coursework and recommended general education courses to fulfill your degree in 2 years (approximately 15 units/semester or 30 units/year). If you are a part-time student, start Semester 1 courses and follow the course sequence. Some of the courses listed may be substituted by another course. Please view these options in the official course catalog.

Semester 1   18 Units

✔	COURSE	TITLE	UNIT
☐	CSIS-113A	C++ Programming - Level 1	3
☐	MATH-211	Analytic Geometry and Calculus I	4
☐	ENGL-101	College Composition	4
☐	BIOL 100 or BIOL 150	Human Biology or General Biology I	4
☐	PSYC-101	Introduction to Psychology	3

Semester 2   16 Units

✔	COURSE	TITLE	UNIT
☐	CSIS-211	Introduction to Data Structures and Algorithms	3
☐	MATH-212	Analytic Geometry and Calculus II	4
☐	ENGL-103	Critical Thinking and Writing	3
☐	CSIS-123A	C++ Programming - Level 2	3
☐	COMM-100	Public Speaking	3

Career Options
Networking & IT Administration (A, B)
Web Development (A, B)
Programming (A, B)
Find more careers: msjc.emsicc.com
Required Education: SM: some college; C: Certificate; A: Associate,
B: Bachelor's, M: Master's; D: Doctorate

Financial Aid
Financial aid is determined by the number of credit hours you take in a semester. Maximize your financial aid by taking 12-15 units per semester.

This program map is not a guarantee of course availability or financial aid applicability.

Summer 1   3 Units

✔	COURSE	TITLE	UNIT
☐	PS-103 or HIST-160 or LIT-275 or LIT-280	Ethnic Politics in America or Black History in the American Context or Latinx/Chicanx Literature or Multiethnic Literature	3

Semester 3   16 Units

✔	COURSE	TITLE	UNIT
☐	CSIS-118B	Computer Organization & Assembly Language	3
☐	ANTH-145	Introduction to Linguistic Anthropology	3
☐	PHY-201	Mechanics and Wave Motion	4
☐	HIST-112	U.S. History Since 1865	3
☐	MATH-218	Linear Algebra	3

Semester 4   16 Units

✔	COURSE	TITLE	UNIT
☐	CSIS-213	Discrete Structures	3
☐	PHY-202	Electricity and Magnetism	4
☐	PHIL-101	Introduction to Philosophy I	3
☐	ART-100	Art Appreciation	3
☐	PS-101	Introduction to American Government and Politics	3

Notes:

Recommended: Students should take courses the summer before the Fall start of the semester.

Work Experience

Sign up for a special project or internship opportunity. Gain work experience and earn credits.