

SCIENCE, MATH & ENGINEERING PATHWAY PROGRAM MAP: CATALOG YEAR: 2023-24



Computer Information Systems: Programming Certificate *Focus: Web Concentration*

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.

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: n/a
- Total Units: 21

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

9 Units

	COURSE	TITLE	UNIT
<input type="checkbox"/>	CSIS-113B	Java Programming - Level 1	3
<input type="checkbox"/>	CSIS-123B	Java Programming - Level 2 ¹	3
<input type="checkbox"/>	CSIS-101	Introduction to Computers and Data Processing	3

Semester 2

12 Units

	COURSE	TITLE	UNIT
<input type="checkbox"/>	CSIS-201	System Analysis and Design	3
<input type="checkbox"/>	CSIS-118B	Computer Organization & Assembly Language	3
<input type="checkbox"/>	CSIS-115A	Web Development - Level 1	3
<input type="checkbox"/>	CSIS-525	Web Development - Level 2 (formerly CSIS-125A)	3

Notes:

¹Take second 8 weeks.

Work Experience

Sign up for a special project or internship opportunity. Gain [work experience](#) and earn credits.

Career Options

Networking & IT Administration (A, B)
Web Development, 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.