SCIENCE, MATH & ENGINEERING PATHWAY
PROGRAM MAP: CATALOG YEAR: 2020-21

MSJC
MT. SAN JACINTO COLLEGE

Mathematics: *Associate in Science for Transfer*
Focus: Computer Science/Information Systems
UC

Have you ever wondered how we got to the moon? Or how a computer or a cell phone works? Or how the Egyptians made the pyramids? These achievements and many more would not have been possible without mathematics. Math opens the doors to exciting and lucrative careers such as robotics, coding, wealth management, engineering, cybersecurity, astrophysics, aerospace, and many more! MATH = $$$

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

Transfer Majors/Award Focus

- Mathematics, A.S.-T CSUSM, UC
- Mathematics, A.S.-T UC, Focus: Computer Science/Information Systems, Physics

GE Pattern/Units

- GE Pattern: Option C
- Total Units: 65

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 ***15 Units***

✔	COURSE	TITLE	UNIT
☐	ENGL-101	College Composition	4
☐	MATH-211	Analytic Geometry and Calculus I	4
☐	COMM-100	Public Speaking	3
☐	SPAN-101 or FREN-101 or ASL-100	Elementary Spanish I or Elementary French I or American Sign Language I	4

Semester 2 ***16 Units***

✔	COURSE	TITLE	UNIT
☐	ENGL-103	Critical Thinking and Writing	3
☐	HIST-111 or HIST-112	U.S. History to 1877 or U.S. History Since 1865	3
☐	CSIS-113A	C++ Programming - Level 1	3
☐	MATH-212	Analytic Geometry and Calculus II	4
☐	ECON-201	Principles of Macroeconomics	3

Career Options

Education (B, M, D), Statisticians (B, M)
Managers (B), Operations Research Analysts (M, D)
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 ***6 Units***

✔	COURSE	TITLE	UNIT
☐	CSIS-123A	C++ Programming - Level 2	3
☐	ANTH-101	Physical Anthropology	3

Semester 3 ***15 Units***

✔	COURSE	TITLE	UNIT
☐	MATH-213	Analytic Geometry and Calculus III	5
☐	PHY-201	Mechanics and Wave Motion	4
☐	HIST-101	Western Civilization to 1650	3
☐	PHIL-101	Introduction to Philosophy I	3

Semester 4 ***13 Units***

✔	COURSE	TITLE	UNIT
☐	MATH-218	Linear Algebra	3
☐	PHY-202	Electricity and Magnetism	4
☐	PS-101	Introduction to American Government and Politics	3
☐	DAN-100	History and Appreciation of Dance	3

Notes:

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

Language Requirement: For students who did not meet the LOTE requirement in high school, they may fulfill Area 6 by demonstrating proficiency by completing ASL-100 American Sign Language I, FREN-101 Elementary French I or SPAN-101 Elementary Spanish I with a grade C or better. Languages other than English for Native Speakers are also acceptable for meeting this requirement.

Work Experience

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

Scheduling Notes

Spread out your class times throughout the week so you're not overloaded with back-to-back classes. You'll want be able to make it to your instructor's office hours before or after class.

Helpful Hints

Use recency to your advantage! Attempting your homework the same day as your lecture will help you apply what you just learned. Consider taking honors courses. In addition to looking great on your transcript, you'll be extra prepared for your upper division coursework.