MATHEMATICS

Program Description

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 = $$$

Mathematics Department Page (https://www.msjc.edu/math/)

Transfer Preparation

MSJC offers a wide range of course work that prepares students for the workforce or for transfer to four-year colleges and universities. All four-year institutions prescribe their own standards for course evaluation and admissions. Courses that fulfill major requirements for an associate degree in a program at MSJC might not be the same as those required for transfer into a similar major at a four-year university. Please meet with a Counselor to confirm transfer requirements.

Transfer students are advised to do research on prospective majors and careers. The MSJC Transfer Center and MSJC catalog can be helpful tools. Students interested in transferring to CSU's or UC's can access major preparation by visiting ASSIST (http://www.assist.org). All students are advised to meet with a counselor at least once a semester to create or update their comprehensive education plan.

Contact Information

San Jacinto Campus
(951) 487-MSJC (6752)
1-800-624-5561
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Degrees/Certificates

Degrees

Transfer Degree

- Mathematics, A.S.-T (https://catalog.msjc.edu/instructional-programs/mathematics/mathematics-ast/)

Program Learning Outcomes

- Students will develop problem-solving and scientific and technological modeling skills to solve mathematical problems. They will be able to reflect on their own thoughts, question and propose problems, and apply past knowledge to new situations.
- Students will develop the ability to think critically, independently, as well as interdependently, express ideas concisely, and reason logically.
- Students will be able to synthesize ideas and apply mathematical reasoning and logic to relevant real-world applications.
- Students will be able to understand, write, and communicate mathematical information symbolically, visually, and numerically with clarity and precision.
- Students will be able to refine understanding of mathematical concepts by discussion and explanation with other students from different kinds of backgrounds, including different socioeconomic backgrounds, different cultures, different ethnic backgrounds, as well as at-risk students.

Careers and Salaries

Discover in-demand careers and education options based on your interests! See the list of careers below or explore further by searching for **Careers or Programs (https://msjc.emsicc.com)**.

Note: There are no guaranteed positions for students completing these programs. Education and work experience required will vary by employer. The salary and benefits for specific occupations will be dependent on work experience, education, background, and employer. Labor market statistics are from the Bureau of Labor Statistics, US Census Bureau, O-NET, EMSI.

Career/Industries	CA Annual Median Salary or Range	Employment Demand or Opening CA
Mathematical Teachers, Postsecondary (B, M, D)	$100,889	12,878
Statisticians (B, M, D)	$95,439	180
Operations Research Analysts (B, M)	$86,255	313
Financial Quantitative Analysts (B, M)	$74,172	824
Actuaries (B, M)	$114,008	54
Mathematical Teachers, Secondary (B, M)	$92,850	3,824

(degree required: SM some college, C: Certificate, A: Associate degree, B: Bachelor's degree, M: Master's degree, D: Doctorate)