

# 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 range of course work to prepare students for the workforce or to 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 this program might not be the same as those required for transfer into a similar major at a four-year university.

Transfer students are advised to do research on prospective majors and careers through the Career/Transfer Center and the MSJC catalog. Students interested in transferring to CSU's or UC's can access major preparation by visiting <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)

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### Temecula Higher Education Center

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### Menifee Valley Campus

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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

- Develop the ability to express ideas and reason logically regarding abstract situations.
- Synthesize ideas and apply mathematical reasoning and logic to the real world.

- Set up and solve problems using arithmetic, algebraic, and geometric models.
- Write mathematical information symbolically, visually, and numerically.
- Develop problem-solving and modeling skills.

## 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
Education (B, M, D)	\$52,000-\$61,000	9,464
Statisticians (B, M)	\$60,315-\$135,461	610
Managers (B)	\$80,925-\$255,993	867
Operations Research Analysts (M, D)	\$49,364-\$143,186	1,190
Financial Quantitative Analysts (M, D)	\$43,558-\$125,637	1,628
Software Developers, Systems Software (B)	\$76,570-\$178,610	6,825
Actuaries (B)	\$68,865-\$177,323	113

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