

PHYSICS

Program Description

Physics explains the fundamental laws of the universe and introduces important concepts that are essential for understanding all the other branches of science such as chemistry and biology. With a strong foundation in the concepts of physics, students will be better equipped to understand the beauty and complexity of the world around them. The Associate in Science in Physics for Transfer degree provides a foundation in physics and mathematics for students planning to transfer into a baccalaureate program in physics or physics education. This background should provide students with the tools to successfully complete a bachelor's degree.

Students who complete the Associate in Science in Physics for Transfer degree receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

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/Menifee Campus

(951) 487-MSJC (6752)/ (951) 672-MSJC (6752)

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Degrees/Certificates

Degrees

Transfer Degree

- Physics, A.S.-T (<https://catalog.msjc.edu/instructional-programs/physics/physics-ast/>)

Program Learning Outcomes

- Analyze physical problems using the laws of physics and appropriate mathematical techniques.
- Measure and collect data from experiments.

- Use the principles of physics to analyze and draw appropriate conclusions concerning the collected data.

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 |
|---|----------------------------------|---------------------------------|
| Electrical Engineer (B, M) | \$132,378 | 2,160 |
| Aerospace Engineer (A, B, M) | \$132,602 | 327 |
| Physics Teachers, Postsecondary (D) | \$103,403 | 22,174* |
| Robotics and Nanosystems Engineer (A, B, M) | \$120,664 | 2,235 |
| Physicists (M, D) | \$170,498 | 494 |

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

* All Postsecondary Teaching Positions