

# COMPUTER/INFORMATION SYSTEMS

## Program Description

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. As a CIS graduate, the world will be your oyster. Your skills are in great demand in all fields of business, industry, and education. From Computer Hardware Specialist to Cybersecurity, Networking, Programming, and Web Development, you will be able to choose a career pathway that is both meaningful and pays higher wages than most jobs today. You will be exposed to tools and practices that are used the world over as you prepare to launch yourself into the exciting and demanding world of Computer Information Systems.

Computer/Information Systems Department Page (<https://www.msjc.edu/cis/>)

## 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

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## Degrees/Certificates

### Degrees

#### Transfer Degree

- Computer Science A.S.-T (<https://catalog.msjc.edu/instructional-programs/computer-information-systems/computer-science-as-t/>)

#### Non-Transfer Degree

- Computer Information Systems, A.S. (<https://catalog.msjc.edu/instructional-programs/computer-information-systems/computer-information-systems-associates-degree/>)

## Certificates

- Internet Authoring Certificate (<https://catalog.msjc.edu/instructional-programs/computer-information-systems/internet-authoring-certificate/>)
- Networking Certificate (<https://catalog.msjc.edu/instructional-programs/computer-information-systems/networking-certificate/>)
- Programming Certificate (<https://catalog.msjc.edu/instructional-programs/computer-information-systems/programming-certificate/>)

## Employment Concentrations

- Computer Forensics Employment Concentration (<https://catalog.msjc.edu/instructional-programs/computer-information-systems/computer-forensics-employment-concentration/>)
- Computer Hardware Specialist Certification (<https://catalog.msjc.edu/instructional-programs/computer-information-systems/computer-hardware-specialist-certification/>)
- Cybersecurity Employment Concentration (<https://catalog.msjc.edu/instructional-programs/computer-information-systems/cybersecurity-employment-concentration/>)
- Internet Authoring Apprentice Employment Concentration (<https://catalog.msjc.edu/instructional-programs/computer-information-systems/internet-authoring-apprentice-employment-concentration/>)

## Program Learning Outcomes

- Recognize that a system consists of people, procedures, hardware, software, and data within a global environment.
- Apply systems concepts in the investigation, evaluation, and resolution of information technology problems.
- Recognize how the very large amounts of data collected by modern organizations can be used to review, redesign, and improve processes.
- Employ applications software and software tools in the application of information technologies to help individuals, groups, and organizations achieve their goals.
- Analyze existing processes based on interviewing, observation, documentation, analysis and other similar methods.
- Research and apply industry reference models and best practices in order to improve process designs.
- Assess, manage, and control IT risks.
- Demonstrate working effectively as a member of the team to accomplish common goals.
- Analyze technical information, as well as listen effectively to, communicate orally with, and prepare memos, reports and documentation for a wide range of audiences.
- Investigate and assess new sources of information and learning opportunities to stay abreast of emerging information and computing technologies.
- List career paths related to the program of study, as well as any qualifications and/or professional certifications that may be associated with those careers.

## 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
Networking & Computer Systems Administrators (A, B)	\$103,896	2,741
Web Administrators (A, B)	\$109,228	7,346
Computer and Information Systems Managers (A, B, M)	\$197,379	9,335

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