



Mt. San Antonio College

# Computer Information Systems & Computer Science, Transfer

Career & Educational Pathway



## Associate Degree CIS Degrees & Certificates career options:

The application of computer programs and networks to implement business processes. Professionals in this industry interact with employees in other functional departments to use technology to solve business problems and help the company meet its organizational goals.

- Computer Programmer/Application Developer
- Database Administrator
- Data Analyst Web Developer
- Cloud Administrator
- Project Manager
- Network/Cybersecurity Administrator

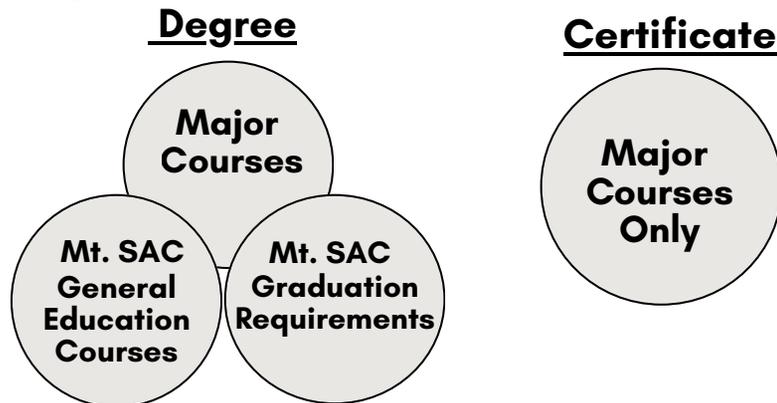


## Computer Science, Bachelor's Degree career options:

The process of creating usable computer programs and applications and the theories behind those processes. Professionals in this industry do a lot of independent work writing and testing logic-based code.

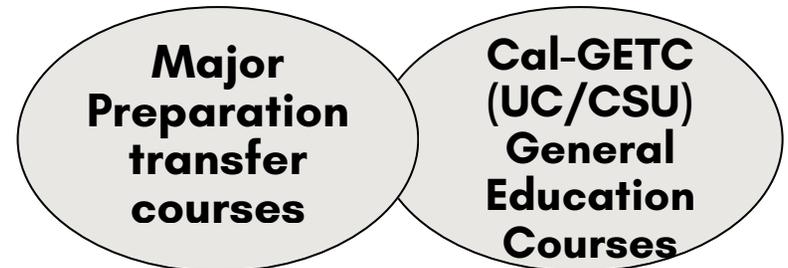
- Software Developer
- Software Engineer
- Security Engineer
- Artificial Intelligence (AI)
- Network Engineer

## Degree & Certificate Educational Pathway:



## Transfer, Educational Preparation\*:

- Focus **first on major preparation courses** that include calculus, physics & computer science.
- Complete general education courses for either UC or CSU



\*A Mt. SAC degree is not required for transfer to a CSU/UC.

- Visit Mt. SAC catalog–programs to learn about major courses for **Computer Information Systems** or go to [bit.ly/4eCntkN](http://bit.ly/4eCntkN)
- To view **Mt. SAC's Associate degree general education** or go to [mtsac.edu/counseling/ge-sheets/](http://mtsac.edu/counseling/ge-sheets/) courses & graduation requirements.

## Associate Science (AS) Degrees

- Artificial Intelligence for Business
- Big Data Analytics
- Cloud & Network Cyber Security Administration
- Computer Programming
- Computer & Networking Technology
- Database Management Systems

## Associate Arts (AA) Degree

- Information Technology Emphasis

## Certificates

- Artificial Intelligence in Business
- Big Data Analytics
- CIS Cloud Computing for Amazon Web Services
- CIS Professional
  - C++ Programming
  - Java Programming
  - LINUX
  - Network Security
  - Networking
  - Object-Oriented Design Programming
  - Python Programming
  - SQL
  - Telecommunications
  - Web Programming
  - Windows Operating Systems Administration
- Computer and Networking Technology
- Computer & Networking Technology Fundamentals
- Computer Networking Technology Industry Certification
- Information & Operating Systems Security
- Introduction to Computer Information Technology
- Microcomputer Productivity Software
- Programming in C++

- Visit Mt. SAC [assist.org](http://assist.org), select Mt. SAC and a CSU/UC school to view major preparation courses for Computer Science



- **Cal-GETC General Education** or go to [mtsac.edu/counseling/ge-sheets/](http://mtsac.edu/counseling/ge-sheets/)



## Transfer Information & Resources

- University of California (UC) **Computer Science** transfer pathway or got to [tinyurl.com/mr34f](http://tinyurl.com/mr34f)
- California State University (CSU) **Computer Science** campus information or got to [tinyurl.com/ey4ztnuf](http://tinyurl.com/ey4ztnuf)
- **Mt. SAC Programs:**
  - Counseling Services: [www.mtsac.edu/counseling/](http://www.mtsac.edu/counseling/)
  - STEM Center: [www.mtsac.edu/stem/](http://www.mtsac.edu/stem/)
  - Transfer Center: [www.mtsac.edu/transfer/](http://www.mtsac.edu/transfer/)

