***Computer Information Systems:*** *Associate in Science – Non-Transfer*

*Focus: Authoring*

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.

***Please see a Pathways Counselor:*** Create an education plan customized to meet your needs. [Contact a Counselor](https://www.msjc.edu/hub/)

Transfer Majors/Award Focus

* Computer Science, A.S.-T CSU, CSUSM, UC
* Computer Information Systems, A.S., Focus: Authoring, Networking, Programming: General, Database, Web
* Internet Authoring, Networking, Programming Certificate

GE Pattern/Units

* GE Pattern: Option A
* Total Units: 63

**Program maps** indicate the major coursework and recommended general education courses to fulfill your degree in 2 years (approximately 15 units/semester or 30 units/year). If you are a part-time student, start Semester 1 courses and follow the course sequence. Some of the courses listed may be substituted by another course. Please view these options in the official course [catalog](https://catalog.msjc.edu/instructional-programs/).

***Semester 1 17 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| ✔ | COURSE | TITLE | UNIT |
| ⬜ | ENGL-101 | College Composition | 4 |
| ⬜ | MATH-105 | College Algebra | 4 |
| ⬜ | CSIS-101 | Introduction to Computers and Data Processing | 3 |
| ⬜ | CSIS-103 | Introduction to the Internet | 3 |
| ⬜ | CSCR-100 | College Success and Career Readiness | 3 |

***Semester 2 15 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| ✔ | COURSE | TITLE | UNIT |
| ⬜ | CSIS-115A | Web Development - Level 1 | 3 |
| ⬜ | PS-101 | Introduction to American Government and Politics | 3 |
| ⬜ | GEOG-108 | World Regional Geography | 3 |
| ⬜ | CSIS-525 | Web Development - Level 21 | 3 |
| ⬜ | CSIS-111B | Fundamentals of Computer Programming | 3 |

Career Options

Networking & IT Administration (A, B)

Web Development (A, B)

Programming (A, B)

Find more careers: [msjc.emsicc.com](http://msjc.emsicc.com)

Required Education: SM: some college; C: Certificate; A: Associate, B: Bachelor’s, M: Master’s; D: Doctorate

Financial Aid

Financial aid is determined by the number of credit hours you take in a semester. Maximize your financial aid by taking 12-15 units per semester.

***Semester 3 16 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| ✔ | COURSE | TITLE | UNIT |
| ⬜ | CSIS-113B or  CSIS-116E | Java Programming - Level 1 or  Python Programming - Level 1 | 3 |
| ⬜ | CSIS-786 | Developing ASP.NET Web Applications1 | 3 |
| ⬜ | BIOL-100 or  BIOL-115 | Human Biology or  Topics in Biology | 4 |
| ⬜ | ART-100 | Art Appreciation | 3 |
| ⬜ | CSIS-126E or  CSIS-123B | Python Programming - Level 2 1 or  Java Programming - Level 2 | 3 |

***Semester 4 15 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| ✔ | COURSE | TITLE | UNIT |
| ⬜ | CSIS-114A | SQL Programming - Level 1 | 3 |
| ⬜ | CSIS-124A | SQL Programming - Level 21 | 3 |
| ⬜ | CSIS-201 | System Analysis and Design | 3 |
| ⬜ | CSIS-202 | CCNA 1 Computer Networks | 3 |
| ⬜ | COMM-103 | Interpersonal Communication | 3 |

Notes***:***

## 1 Take second 8 weeks: CSIS-525 Web Development - Level 2, CSIS-786 Developing ASP.NET Web Applications, CSIS-123B Java Programming - Level 2, CSIS-124A SQL Programming - Level 2

Work Experience

Sign up for a special project or internship opportunity. Gain [work experience](https://msjc.edu/careereducation/cwee/index.html) and earn credits.