***Water Technology:*** *Associate in Science – Non-Transfer*

*Focus: Wastewater Treatment*

Liquid blue gold! Water is one of the most important economic resources for California. Qualified water resources managers are in high demand and positions can lead to rewarding life-long careers. The program emphasizes a real-world approach to diagnostic skill building and a thorough understanding of water system theory and operations.

***Please see a Pathways Counselor:*** A local degree requires a minimum of 60 degree-applicable units with a minimum 2.0 GPA overall. [Contact a Counselor](https://www.msjc.edu/hub/) to create an education plan customized to meet your needs.

Transfer Majors/Award Focus

* Water Technology, A.S., Focus: Wastewater Treatment, Water Distribution, Water Treatment
* Water Technology Certificate

GE Pattern/Units

* GE Pattern: Option A
* Total Units: 62

**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 16 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| a | COURSE | TITLE | UNIT |
| c | WATR-790 | Basic Waterworks Mathematics  | 2 |
| c | WATR-500 | Introduction to Water/Wastewater Operations | 1 |
| c | GEOG 108  | World Regional Geography  | 3 |
| c | PHIL-105 | Introduction to Ethics | 3 |
| c | CSCR-502 | Personal Success Habits of Highly Effective People  | 3 |
| c | ENGL-101 | College Composition  | 4 |

***Semester 2 16 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| a | COURSE | TITLE | UNIT |
| c | WATR-503 | Water Treatment Plant Operations I & II  | 3 |
| c | WATR-520 | Wastewater Treatment Plant Operations I & II  | 3 |
| c | PS-101 | Introduction to American Government and Politics | 3 |
| c | COMM-103 | Interpersonal Communication | 3 |
| c | MATH-105 | College Algebra 1 | 4 |

Career Options

Water & Wastewater Treatment Plant & Sys Oper (SM, C, A)

Environmental Science & Protection Technician (A, B)

Water Resource Specialist (B M, D)

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

***Notes:***

## 1 AREA G (Math Competency) can be demonstrated by a high school math course at or above the level of Algebra 2 with a grade of C or better.

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*** ***15 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| a | COURSE | TITLE | UNIT |
| c | WATR-522 | Wastewater Plant Operations III, IV & V  | 3 |
| c | WATR-525 | Test Procedures for Water and Wastewater  | 3 |
| c | WATR-530 | Environmental Laws and Regulations  | 3 |
| c | GEOG-115 | Introduction to Geographic Information Science | 3 |
| c | MGT-500 | Introduction to Management  | 3 |

***Semester 4 15 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| a | COURSE | TITLE | UNIT |
| c | BIOL-146 orBIOL-117 | Biodiversity orConservation Biology | 3 |
| c | GEOG-520 | Intermediate Geographic Information Science  | 3 |
| c | COMM-117 | Organizational Communication | 3 |
| c | MGT-505 | Organizational Behavior  | 3 |
| c | MGT-770 | Productivity Management  | 3 |

Work Experience

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