

# WATER RESOURCE MANAGEMENT

## A.A. DEGREE

### Description

The Water Resources Management degree program is designed to prepare students for employment by municipal drinking water and wastewater treatment departments or industrial treatment facilities. Careers in water/wastewater technology generally involve the administration, operation and maintenance of both drinking water and wastewater treatment facilities as well as distribution and collection systems. Gavilan's Water Resources Management Program provides educational courses that prepare students for careers in Water Resources Management. Courses prepare students for certification examinations administered by the State of California as well as those administered by professional associations within the water and wastewater industry. Current instructors are experienced water and wastewater professionals, expert and up-to-date in best-of-breed industry practices. Classes are built around practical examples of real-world scenarios, demonstrations, and field trips whenever possible to maximize understanding of subject matter. Internships are available, too, through Cooperative Work Experience.

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Follow safe practices while applying chemical, microbiological, and mechanical knowledge and skills to maintain proper water and wastewater plant operations.
2. Apply math and hydraulics skills in proper water and wastewater plant, collection system, and distribution system operations.
3. Identify regulations and operate the plant accordingly.
4. Be able to pass the California licensure examination in the water industry.

### Program Requirements:

#### Core Requirements

**Units: (15 Required)**

WTRM201	Introduction to Water, Wastewater Technology	3
WTRM202	Beginning Water, Wastewater, Distribution Math	3
WTRM205	Water Distribution 1	3
WTRM206	Beginning Water Treatment Plant Operation	3
WTRM207	Beginning Wastewater Treatment Operations	3

#### Select one of the following

**Units: (3 Required)**

WTRM208	Water Distribution 2	3
WTRM209	Advanced Water Treatment Plant Operation	3
WTRM211	Advanced Wastewater Treatment Plant Operation	3
WTRM232	Advanced Water Distribution	3

#### General Education Requirements:

**Units: (42 Required)**

*A student may complete the Gavilan College A.A./A.S. general education, or the Cal-GETC pattern, plus sufficient electives to meet a 60 unit total. See a counselor for details. NOTE: A course may be used to satisfy both general education and major requirements. See "Double Counting Rule".*

**Total: 60**

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