

# WATER TECHNOLOGY ASSOCIATE OF SCIENCE DEGREE

The Water Supply Technology Program is designed to serve students who are employed or interested in employment in water/wastewater occupations. The program provides technical classes in water distribution, water treatment, wastewater collection, and wastewater treatment. The courses prepare students to upgrade their skills and/or prepare them for certification examinations from the California State Water Resource Control Board, the American Water Works Association, and the California Water Environment Association. The certificate program is designed to prepare students for entry level jobs in water treatment, water distribution, and wastewater reclamation industries. The associate of science degree graduates often work in city, county, or state agencies in positions such as plant operator, engineering technician, surface water manager, environmental laboratory coordinator, and industrial pre-treatment coordinator.

To graduate with a specialization in Water Technology, students must complete the following required courses in addition to the general breadth requirements for Associate of Science degree (total = 60 units).

Code	Title	Units
<b>Required Courses</b>		
WST 034	Introduction to Water Resource Management	3
WST 037	Environmental Laws and Regulations	3
WST 075	Water/Wastewater Chemistry and Analysis	4
<b>Select five courses from the list below:</b>		<b>18</b>
WST 031	Water Use Efficiency Practitioner I	3
WST 036	Water Utility Management	3
WST 038	Geographic Information Systems (GIS) in Water Resources	3
WST 045	Backflow Prevention Devices	3
WST 048	Cross-Connection Control	3
WST 061	Water Distribution I	3
WST 062	Water Distribution II	3
WST 071	Water Treatment I	3
WST 072	Water Treatment II	3
WST 081	Wastewater Collection I	3
WST 082	Wastewater Collection II	3
WST 086	Electrical Instrumentation for Water and Wastewater Operations	3
WST 091	Wastewater Treatment I	3
WST 092	Wastewater Treatment II	3
<b>Total Units</b>		<b>25</b>

Code	Title	Units
<b>Recommended Courses</b>		
CIT 101	Introduction to Computer Literacy	3
WST 098	Water Supply Technology Work Experience	1-4

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

## Program Learning Outcomes

At the completion of this program, students will be able to:

- Have knowledge of fundamental aspects of water resource management, conservation, distribution, treatment, collection, recycle, and disposal operations
- Perform tasks in connection with the operation, control, and maintenance of water and sanitation systems
- Utilize analytical skills as decision-making tools in the evaluation of unit water processes as well as overall utility performance
- Demonstrate effective oral and written communication skills and apply these tools in a regulatory context (i.e. public health protection)
- Have knowledge of relevant equipment, policies, procedures and strategies to promote effective local, state, or national security operations in water resource management