

CERTIFICATE IN WATER TECHNOLOGY

This program is designed to prepare students who wish to seek employment in the public drinking water supply industry or qualify for a more responsible position within the industry. These courses will be helpful to students who wish to prepare for the T1, T2, T3, T4, and T5 Water Treatment Operator and D1, D2, D3, D4, and D5 Water Distribution Operator certification examinations given by the California State Water Resources Control Board. Coursework also provides contact hours for Operator Certification maintenance requirements.

Employment opportunities include:

- pumping station operator,
- water line worker,
- water maintenance mechanic helper,
- water motor installer,
- water service dispatcher,
- treatment plant operator.

Learning Outcomes

Certificate of Achievement Level Student Learning Outcomes

Students completing the Water Technology Certificate of Achievement will:

1. Describe and explain regulatory issues that relate to the public drinking water supply.
2. Diagram and explain the fundamentals of the water distribution system including SCADA (supervisory control and data acquisition), maintenance, pumps, hydraulics, and valves.
3. Given a scenario involving water contamination; identify the contaminants, recommend the best treatment, administer the treatment and then verify the contaminants are below allowable safety thresholds.
4. Demonstrate the safe handling of chemicals used in the water industry and describe the Occupational Safety and Health Administration (OSHA) regulations related to public drinking water.

Requirements

Code	Title	Units
Required courses:		
WATR 150	Introduction to Water Systems	3
WATR 151	Water Resources and Distribution I	3
WATR 153	Water Resources and Distribution II	3
WATR 156	Water Treatment I	3
WATR 157	Water Treatment II	3

Code	Title	Units
Select one (1) of the following courses:		
BIOL 145	Environmental Science	3
PUB 160	Public Administration	3
PUB 161	California Occupational Safety and Health	3
PUB 165	Environmental Management	3
WATR 162	Water Use Efficiency I	3
WATR 164	Water Use Efficiency II	3
Total Units		18

Curriculum Map

1-Year Curriculum Map Example

This map represents one possible pathway through the program and is only for reference.

*It is highly recommended that you make an appointment (<https://www.citruscollege.edu/stdntsrv/counsel/Pages/ApptSchedule.aspx>) to create a customized education plan that fits your needs.

Course	Title	Units
Fall Term 1		
WATR 150	Introduction to Water Systems	3
WATR 151	Water Resources and Distribution I	3
WATR 156	Water Treatment I	3
	Units	9
Spring Term 1		
WATR 153	Water Resources and Distribution II	3
WATR 157	Water Treatment II	3
BIOL 145	Environmental Science	3
or PUB 160	or Public Administration	
or PUB 161	or California Occupational Safety and Health	
or PUB 165	or Environmental Management	
or WATR 162	or Water Use Efficiency I	
or WATR 164	or Water Use Efficiency II	
	Units	9
	Total Units	18

Career Information

Career Opportunities

There are a variety of careers you can do with this major.

To explore more about this major, schedule an appointment (<https://www.citruscollege.edu/stdntsrv/ctcenter/Pages/ApptSchedule.aspx>) with a career counselor.