

Water Systems Technology - Certificate of Achievement

+If you have completed coursework at another college and/or are starting in a semester other than a Fall term, please follow up with the Counseling Department to determine if this sequence is appropriate for your academic and career goals.

Program Description: Water Systems Technology is the study of water treatment processes, distribution processes, and wastewater processes. The program is designed to prepare students seeking a career in drinking water treatment and distribution or wastewater. The Water Systems Technology program also provides instruction for water and wastewater industry personnel interested in career advancement as well as continuing education opportunities for State certified Water Treatment and Water Distribution Operators for certification renewal. Coursework will help prepare students for various certification examinations given by the State of California Water Resources Control Board. Upon completion of the program, students will acquire skills and knowledge in water treatment concepts, wastewater treatment concepts, chemical dosage techniques, water distribution, water chemistry, water quality, water mathematical calculations and other skills needed throughout this vital industry. The students completing the program can become employed as a distribution operator, water treatment plant operator, water service representative, water quality specialist, wastewater collection worker and/or wastewater treatment operator.

Program SLO:

Demonstrate proficiency in the core skills and knowledge required for employment in the water and wastewater industry.

Important Information: For students interested in earning an Associate's degree and/or transfer, please follow up with the Counseling Office for additional information @ <https://www.canyons.edu/counseling> or (661)362-3288/(661)362-3811.

Major courses are sequenced and **BOLDED** based on recommendations by the [Water Systems Technology Department](#).

FA = Fall; WI = Winter; SP = Spring; SU = Summer

First Semester	(3-9 units minimum)		
Course	Title	Units	Major Courses
WATER 130	Waterworks Mathematics (FA, SP, SU)	3	Major
WATER 120	Introduction to Water Systems Technology (FA, SP, SU) (8 weeks 100% online)	3	Major
WATER 132	Water Supply (FA, SP) (8 weeks 100% online)	3	Major
	Term Totals:	9	

Second Semester	(10 -21 units minimum)		
Course	Title	Units	Major
WATER 131	Advanced Waterworks Mathematics (FA, SP)	3	Major - AS
WATER 135	Water Quality (FA, SP)	3	Major - AS
WATER 140 & 141OR WATER 150 & 151OR WATER 160 & 161	Water Distribution Operator I & II (8 weeks each) (FA, SP) Water Treatment Plant Operation I & II (8 weeks each) (FA, SP) Wastewater Treatment and Disposal I & II (8 weeks each) (FA,SP)	3+3	Major - AS
	Term Totals:	12	

Total Units: 21

Counseling Resources

Water Systems Technology Department Website: www.canyons.edu/water

Counseling Department: <https://www.canyons.edu/student-services/counseling/index.php>

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Petition for Certificate of Achievement: Petitions are due in the fall/spring/summer term you will complete the requirements and may be submitted before your last term or up until the final day of the term. The petition form must be reviewed with a counselor and may be found here:

https://www.canyons.edu/resources/documents/student-services/admissions/Petition_for_Associate_Degree_and_Certificate_of_Achievement.pdf

Career Resources

Water Career Tree: <https://www.canyons.edu/academics/water/careertree/index.php>

State of California Water Resource Control Board (SWRCB):

SWRCB Treatment and Distribution Operators

https://www.waterboards.ca.gov/drinking_water/certlic/occupations/DWopcert.html

SWRCB Wastewater Operators

https://www.waterboards.ca.gov/water_issues/programs/operator_certification/operator_certification.html

Water Systems Technology at College of the Canyons LinkedIn Group:

<https://www.linkedin.com/groups/13598869/>

California Career Zone – Water and Wastewater Treatment Plant and System Operators:

<https://www.cacareerzone.org/profile/51-8031.00>

O*Net Online -Water and Wastewater Treatment Plant and System Operators:

<https://www.onetonline.org/link/summary/51-8031.00>

Bureau of Labor and Statistics - Water and Wastewater Treatment Plant and System Operators:

<https://www.bls.gov/ooh/production/water-and-wastewater-treatment-plant-and-system-operators.htm>

Professional Associations: <https://www.canyons.edu/academics/water/information/links.php>