

Water Utility Science Classes, Fall 2020

Classes are 16 weeks, August 24 through December 13 (except where otherwise noted.)

EXAM PREPARATION CLASSES OFFERED ONLINE!

Be totally prepared for your next State license exam. Our online format makes it easy.

WATR 048 –Wastewater Operator Exam Review (9 contact hours) Review for California SWRCB, Wastewater Treatment Operator examinations.	09/14-10/10/20 Section 86510
WATR 054 –Advanced Treatment Exam Preparation (9 contact hours) Review for California SWRCB, T3 and T4 examinations.	10/12-11/07/20 Section 86515
WATR 056 –Treatment Exam Preparation (9 contact hours) Review for California SWRCB, T1 & T2 examinations.	10/12-11/07/20 Section 86516
WATR 057 – Water Distribution Exam Preparation (9 contact hours) Review for California SWRCB, D1 & D2 examinations.	08/24-09/19/20 Section 86519
WATR 059 – Advanced Water Distribution Exam Preparation (9 contact hours) Review for California SWRCB, D3, D4, and D5 examinations.	08/24-09/19/20 Section 86520

WATR 020, Introduction to Water Science

3 Units

An overview of Water Science topics including water sources and supply, water quality and regulations, water transmission and distribution, and treatment of water and wastewater, including applicable science and math principles.

Section 86509 Online Stephen McLean Full Semester

WATR 050, Water Mathematics and Hydraulics

3 Units

Practical application of mathematics to perform unit conversions and to calculate areas, volumes, flow rates, pressures, velocities, chemical dosages and related hydraulic calculations used in water system operations.

Section 86511 Online Jeffry Dennis 8/24-10/18/20
Section 86512 Online Jeffry Dennis 10/19-12/13/20
Section 86513 Online Jeffry Dennis Full Semester

WATR 052, Water Conservation Practitioner

3 Units

Theoretical and practical training in applied water use efficiency. Preparation for American Water Works Association (AWWA) Grade 1 and 2 Water Conservation Practitioner certification.

Section 86514 Online Stephen McLean Full Semester

WATR 060, Water Utility Maintenance & Construction

3 Units

Overview of procedures, equipment, tools, and terminology used in water utility maintenance and construction.

Topics include related math calculations and atlas map reading. This course is intended for individuals with minimal field experience who are seeking a career in the Water Industry. Field trips may be required.

Section 86524 Remote Blended 6:30–9:40p W David Rodriguez Full Semester

WATR 061, Water Distribution

3 Units

Prerequisite: Water Utility Science 050.

Presents basic concepts of drinking water distribution, including water sources, water quality, and distribution system components. Preparation for the California State Water Resources Control Board level D1 and D2 Water Distribution Operator certification exams.

Section 86526 Online Stephen McLean 10/19-12/13/20

WATR 063, Electrical Wiring and Controls for Operators

3 Units

Theoretical and practical skills needed to perform preventive maintenance and minor repair of basic electrical wiring and control systems used in water and wastewater facilities.

Section 86527 Remote Live 6:30–9:40p Th Mike Molinari Full Semester

WATR 071, Water Treatment Fundamentals				3 Units
Prerequisite: Water Utility Science 050.				
A specialized course including conventional treatment processes, facility maintenance, water sources, monitoring, sampling, and water quality standards. Primary course for CDPH Water Treatment T2 and T3 examinations.				
Section 86531	Online		Jeffry Dennis	10/19-12/13/20
WATR 072, Advanced Water Treatment				3 Units
Prerequisite: Water Utility Science 071.				
Presents the basic operating principles and techniques of the conventional surface water treatment process of coagulation, flocculation, sedimentation, and filtration, plus those of common disinfection processes. Preparation for California State Water Resources Control Board Grade T1 and T2 Water Treatment Operator certification exams.				
Section 86532	Online		Jeffry Dennis	Full Semester
WATR 080, Intro to Wastewater Treatment				3 Units
This course provides an overview of the basic principles of wastewater treatment. It is intended both, for students preparing to become certified wastewater treatment operators as well as students interested in discovering how the environmental impacts of human activities are minimized through modern wastewater treatment technologies. Field trips may be required.				
Section 86535	Online		Stephen Mclean	8/24-10/18/20
WATR 081, Wastewater Treatment				3 Units
Prerequisite: Water Utility Science 050.				
Presents the basic operating principles and techniques of conventional wastewater treatment. Successful completion provides student with 48 Certification for Wastewater Professionals (CWEA) contact hours and eight (8) State Water Resources Control Board (SWRCB) educational points. Prepares student for SWRCB Wastewater Treatment Plant Operator exam-Grades 1 and 2.				
Section 86536	Online		Shabbir Basrai	10/19-12/13/20
WATR 092, Water Utility Management				3 Units
This course explores various supervision and management issues of particular relevance to the water industry regulations, employee safety programs, facilities security, emergency response, and governing body interactions.				
Section 86538	Remote Blended	6:30–8:00p	Tu	Dennis Cafferty
				Full Semester
WATR 107, California Water Resources				3 Units
Introduction to water law and rights, California water history, political lore, and water supply agencies serving Orange County. Includes hydrologic cycle, seawater intrusion, protection of wells and reservoirs, flood control, pollution/contamination of ground water supplies, and the conservation of water.				
Section 86544	Online		Stephen McLean	Full Semester

Teaching Mode Descriptions for Fall 2020

Online (O) classes are distance education classes with no scheduled meeting days. Students will log in to Canvas and complete work regularly throughout the week. Other technologies may be required to complete coursework.

Remote Live (RL) classes are distance education classes with weekly scheduled meeting days and times. Students will attend class virtually during the published course times. Canvas and other technologies will be required to complete coursework.

Remote Blended (RB) classes are distance education classes with some scheduled meeting days and times. Students will attend class virtually during published times only. Additionally, students will log in to Canvas and complete work regularly throughout the week. Other technologies may be required to complete coursework.