






Santiago Canyon College
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WATER UTILITY SCIENCE
PROJECT MANAGEMENT
www.sccollege.edu/water

SPRING 2012



Hot Topics: Contact Hours for Water Professionals

 WATR 098 – Backflow Devices in Water/Wastewater (8 contact hours) Review the regulatory authority, types of devices on the market, and designs of backflow devices used in Orange and Los Angeles counties.	0.2 Units Instructor–Marty Friebert Friday, 2/03/12, 8:00 AM to 4:50 PM Section #58002
 WATR 057 – Test Preparation for Water Distribution Operators (8 contact hours) Review information and prepare students to take and successfully pass the California Department of Health Services Operator examinations D1 & D2 examinations. May be repeated.	0.2 Units Instructor–Dr. Jim Gates Friday, 2/24/12, 8:00 AM to 4:50 PM Section #57717
WATR 098 – Ozonation Systems (8 contact hours) A specialized course that covers the chemical and physical properties of ozonation. Topics include chemistry, on-site manufacturing, equipment maintenance, ozonation purposes and its effects on potable and non-potable waters. Course satisfies educational requirements to renew operator licenses issued by the California Department of Public Health.	0.2 Units Instructor–Gary Syfers Friday, 3/09/12, 8:00 AM to 4:50 PM Section #59633
 WATR 056 – Treatment Test Preparation (8 contact hours) Review information provided in various classes in the program and prepare students to take and successfully pass the California Department of Health Services Operator T1 & T2 examinations.	0.2 Units Instructor–Dr. Jim Gates Friday, 4/27/12, 8:00 AM to 4:50 PM Section #57716

Full-Semester Classes begin the week of January 23, 2012



WATR 050 – Water Mathematics and Hydraulics (3 units) START HERE for Distribution & Treatment Operator Programs Practical application of mathematics to determine areas, volumes, pressure, rate of flow, velocity, thrust and basic hydraulics as used in the water utility and wastewater fields.	Instructor–Dr. Jim Gates Mon & Wed, 5:30 to 6:55 PM Section #54428 Tuesdays, 7:15 to 10:25 PM Section #54429
WATR 101 – Water Treatment Fundamentals (3 units) Includes conventional treatment processes, facility maintenance, water sources, monitoring, sampling and water quality standards. Primary course for Calif. Department of Public Health, Water Treatment T2 and T3 (Grades II and III) examinations. Prerequisite: WATR 050.	Instructor–Dr. Jim Gates Mondays, 7:15 to 10:25 PM Section #54430
WATR 102 – Advanced Water Treatment (3 units) Public health aspects of water supply, water quality control, chemical treatment, sedimentation, filtration, ion exchange, disinfection. Operation and maintenance of water treatment unit processes. Preparation for Water Treatment Exams. Completion of WATR 050 and WATR 101 recommended.	Instructor–Jeffrey Dennis Wednesdays, 7:15 to 10:25 PM Section #54431

WATR 107 – California Water Resources (3 units)

Water law and rights, California water history and water supply agencies serving Orange County. Includes sea water intrusion, protection of wells and reservoirs, flood control, industrial water use, pollution/contamination of ground water, and conservation.

Instructor—Dr. Jim Gates
Thursdays, 7:15 to 10:25 PM
Section #54432

WATR 109 – Water Distribution Systems (3 units)

Water distribution systems operation. Fundamentals of water production, quality, and system operation. Includes piping, services, pumps, reservoirs, mathematics, and basic hydraulics. Preparation for Grades I, II, and III Water Distribution Operator certification. **Prerequisite:** WATR 050.

Instructor—Dennis Cafferty
Wednesdays, 7:15 to 10:25 PM
Section #54433

WATR 112 – Wastewater Treatment Plant Processes (3 units)

Secondary and advanced treatment, disinfection and chlorination, reclamation of wastewater, and laboratory procedures. Preparation for SWRCB Wastewater Treatment Plant Operator exam Grades 3, 4, and 5. Successful completion provides 48 CWEA contact hours and 8 SWRCB educational points.

Instructor—Hillary Kelly
Wednesdays, 7:15 to 10:25 PM
Section #57715

WATR 116 – Collection Systems (3 units)

Sewer construction, inspection and testing, cleaning methods, safety, elementary hydraulics, pipeline repair, equipment maintenance, communications, and record keeping. Successful completion provides student with 48 CWEA contact hours and 4 SWRCB educational points. Preparation for CWEA Wastewater Collection System exam all Grades.

Instructor—Simon Watson
Mondays, 7:15 to 10:25 PM
Section #54434

WATR 204 – Water Reclamation and Reuse (3 units)

Fundamentals of reclaimed water, includes case studies and history of reclaimed water development. Planning, design and construction of reclaimed distribution systems. Problems regarding marketing, legislation and regulations for reclaimed water. Includes microbiology and health/safety issues.

Instructor—Staff
Tuesdays, 7:15 to 10:25 PM
Section #54435

WATR 210 – Advanced Water Distribution (3 units)

Pipe types and uses, reservoirs, maps, records, and applied hydraulics as applied to distribution systems. Preparation for Distribution Grades II, III and IV Water Distribution Operator certification by the California Department of Public Health.

Instructor—Dennis Cafferty
Mondays, 7:15 to 10:25 PM
Section #54436

PBLC 080 – Principles of Project Management (3 units)

(Same as Business 090) Utilizing project planning tools and techniques learn how to define, plan, execute and deliver projects of all types and sizes. Emphasizing practical application using case studies to organize, schedule and manage projects effectively. Industry guest speakers included.

Instructor—Barry McCarthy
Thursdays, 7:15 to 10:25 PM
Section #54412

PBLC 082 – Microsoft® Project (hands-on/software) (1 unit)

Microsoft Project is used to plan, track, monitor and evaluate project deliverables to completion, within budget and on time. The software allows for finding exceptions, and solving project problems using the planning, control, reporting and team management features of Microsoft Project.

Instructor—Stuart Davis
Thursdays, 5:00 to 7:05 PM
8 weeks, Mar 29–May 17
Section #54415

New students must first apply to the college online at www.sccollege.edu. Students will be assigned a registration date via email. Register for classes online. Register early—classes fill up quickly! The cost for California residents is \$36 per unit (plus parking, health/student fees and texts). Fees must be paid in full within three days of registration or you will be dropped.