

Note: Course Dates indicate Beginning and Ending Dates

M=Monday, T=Tuesday, W=Wednesday, R=Thursday, F=Friday, S=

CRN	Instructor	Days	Time	Room	D	CRN	Instructor	Days	Time	Room	D
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## Water Technology

### WATR 150 Introduction to Water Systems 3 Units

Strongly recommended: ENGL 099 or READ 099 if required by English placement exam or if required by English level.

A basic course in water distribution and treatment covering water quality control practices, water sources, public health aspects of water regulations, supply, water treatment arithmetic, chemical treatment, filtration, corrosion, disinfection, tastes and odors in water, water system operation and maintenance, valves, pipes, pumps, and meters. The material covered in this course will be helpful to those preparing for the D-1 and D-2 Water Distribution Operator's Certificate examinations and the T-1 Water Treatment Operator's Certificate examination given by the State of California. 54 lecture hours.

30721 Glancy, J. W 07:00 PM-10:10 PM HH 754 02/23-06/18

### WATR 153 Water Resources and Distribution II 3 Units

Strongly recommended: WATR 150, WATR 151, and MATH 130.

A course in practical water supply hydraulics with emphasis on the basic principles of hydraulics. The purpose of the course is to clarify pressure, head, buoyancy, friction loss, forces, velocity of flow and size capacity relationship of distribution systems. The course includes the study of pump characteristics, sizing of pumps, water chemistry, water treatment, arithmetic, chemical treatment, and efficiency test procedures. Typical calculations include line loss in series and parallel pipe systems, residual pressure, forces on thrust blocks, and horsepower requirements for pumps. This course prepares the student for the D3, D4, and D5 Water Distribution Operator's examinations. 54 hours lecture.

30724 Maestas, A. R 06:30 PM-09:40 PM HH 754 02/23-06/18

### WATR 156 Water Treatment I 3 Units

Strongly recommended: MATH 130 AND WATR 150.

Course covering water resources, water quality, unit operations of water treatment, public health requirements, and the basics of water chemistry and aquatic microbiology. Prepares students for the T1, T2, and T3 Water Treatment Operator's Certificate examinations given by the State of California. 54 hours lecture.

30725 Sherman, S. T 06:30 PM-09:40 PM HH 754 02/23-06/18