

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: WATR 150 and MATH 130. Also, READ 099 if required by reading placement exam or if required by reading level.

A course designed for water distribution systems operators. This course continues WATR 150. Topics include: water production, types of reservoirs, water lines, pumps, water chemistry, water treatment, arithmetic, chemical treatment, appurtenances, method of installation, repair of facilities, back up theory, and administrative functions behind the distribution system. This course prepares the student for the D2 and D3 Water Distribution Operator's examinations. 54 lecture hours.

30804 Glancy, J. W 07:00 PM-10:10 PM HH 754 02/17-06/12

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.

30807 Gramling, G. R 06:30 PM-09:40 PM HH 754 02/17-06/12

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.

30808 Sherman, S. T 06:30 PM-09:40 PM HH 754 02/17-06/12