TA 197D Stage Crew Workshop

(.5-3)

11/2 to 9 hours laboratory

Prerequisite: Completion of, or concurrent enrollment in, TA/ENTT105 or TA III

Note: At lease one unit of this course is required of all theatre arts majors; may be taken 4 times

Transfer acceptability: CSU; UC

Participation in college dramatic and musical productions as a member of the stage crew or house staff.

TA 197E Management of Theatre Activities (.5-3)

1½ to 9 hours laboratory

Note: May be taken 4 times

Transfer acceptability: CSU

The principles of organization, operation, and planning for theatre management including programming, ticket sales, box office records, and promotional news release writing. Practical use applied to theatre productions.

TA 197F Theatre Topics (.5-4)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.

Note: May be taken 4 times

Transfer acceptability: CSU; UC -Credit determined by UC upon review of course syllabus

Topics in theatre. See Class Schedule for specific topic offered. Course title will designate subject covered.

TA 215 Intermediate Acting I: Styles (3)

3 hours lecture
Prerequisite: TA 116
Note: May be taken 2 times
Transfer acceptability: CSU; UC

This course emphasizes the application of fundamental acting skills to specific styles. The actors will learn how to accomplish the demands of different styles from Shakespeare to Theatre of the Absurd.

TA 217 Intensive Actor Training (3)

3 hours lecture

Prerequisite: TA 116 and audition **Transfer acceptability:** CSU

The application of rigorous actor training techniques to develop the actor's ability to create compelling performances. The coursework will integrate physical, vocal and imagination training with psychological work, text analysis and ensemble training.

TA 297 Experimental Topics in Theatre (1,2,3)

3, 6, or 9 hours laboratory

Prerequisite: Previous theatre experience

Note: May be taken 4 times

Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus

Designed for students with particular interest in advanced projects, including individual research. Tutoring and performance for college classes and community.

Wastewater Technology Education (WWT)

Contact Occupational & Noncredit Programs for further information.

(760) 744-1150. ext. 2284

Office: AA-138

Associate in Arts Degrees -

AA Degree requirements are listed in Section 6 (green pages).

• Wastewater Technology Education

Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages).

• Wastewater Technology Education

PROGRAM OF STUDY

Wastewater Technology Education

Specifically designed for individuals employed by or seeking employment in water districts in San Diego County.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
WWT 100	Treatment Plant Operations	3
WWT/WTE II0	Waterworks Mathematics	3
WWT/WTE 120	Instrumentation and Controls	3
WWT/WTE/		
PWM 125	Supervision	3
WWT 150	Collection Systems Operator	3
WWT 155	Treatment Process Control	3
WWT/WTE 215	Motors/Pumps/Oper/Maintenance	3
Electives (Selec	et 6 units)	
WWT/WTE 135	Backflow Prevention	3
WWT/WTE 138	Cross Connection Specialist	3
WWT 197	Wastewater Tech Education Topics	.5-4
WWT/WTE 225	San Diego Regional Internship	4-8
CE 100*	Cooperative Education	3-4
TOTAL UNIT	27	

^{*}Cooperative Education must be related to this major.

COURSE OFFERINGS

Courses numbered under 50 are non-degree courses.

Courses numbered under 100 are not intended for transfer credit.

WWT 45 Vocational Math Skills for WWT/WTE (3)

3 hours lecture

Note: Cross listed as WTE 45

Introduction to the basic mathematic skills used in water and wastewater calculations. Particular interest is given to industry-relevant problems and examples.

WWT 100 Treatment Plant Operations (3)

3 hours lecture

Recommended preparation: WWT/WTE 45

Note: May be taken 4 times

An introductory wastewater treatment plant operations course. Topics covered include: the various origins and characteristics of wastewater; an overview of wastewater collections systems; preliminary treatment; primary treatment; fixed film secondary biological treatment processes; treatment ponds and disinfection. Emphasis is given to the role of the operator and preparation for solving practical problems and problems typical of those found in Operator Certification examinations.

WWT 110 Waterworks Mathematics (3)

3 hours lecture

Recommended preparation: WWT/WTE 45

Note: Cross listed as WTE 110

Provides instruction in entry level to intermediate level mathematical calculations used in the operation and evaluation of conventional water and wastewater treatment processes. The course content has been developed to meet training requirements for entry to intermediate level certification (Grade I III) for water treatment plant operators. Also, it will cover wastewater collection, treatment and disposal. Material will parallel some of the problems found on State Certification examination.

WWT 120 Instrumentation and Controls (3)

3 hours lecture

Prerequisite: WTE/WWT 110

Note: Cross listed as WTE 120; may be taken 4 times

Introduction to basic electrical theory. Applications and uses of water and wastewater control systems including switches, relays, alarms, motors, instrumentation and telemetering.

WWT 125 Supervision

3 hours lecture

Note: Cross listed as WTE 125/PWM 125

Managerial aspects of public utilities including organization, decision making, coordination, communication, and public relations. Personnel management including recruiting, training, evaluation, discipline, promotion, morale, and grievances. Safety programs and encouraging safe conditions, actions and attitudes.

WWT 135 Backflow Prevention

2½ hours lecture-1½ hours laboratory

Note: Cross listed as WTE 135; may be taken 4 times

Concentrated training in recognition and abatement of cross connections in water supply and plumbing systems. Hands on backflow prevention device testing procedures for certification.

WWT 138 Cross Connection Specialist (3)

3 hours lecture

Recommended preparation: WTE/WWT 135

Note: Cross listed as WTE 138

The study of the various levels of administrative and technical procedures necessary to operate a cross connection control program. Students will obtain the knowledge to become certified as a "Cross Connection Control Specialist" under the provisions set forth by American Water Works Association.

WWT 150 Collection Systems Operator (3)

3 hours lecture

Note: May be taken 4 times

Wastewater collection systems and collection system equipment, pipeline cleaning and maintenance, system design, safety procedures, inspecting and testing procedures used in collections systems.

WWT 155 Treatment Process Control (3)

3 hours lecture

Recommended preparation: WWT/WTE 110

A wastewater treatment and disposal course with an emphasis on control of these processes. Topics covered include: the activated sludge secondary treatment process and its variations; sludge digestion, treatment and disposal; safety and housekeeping; maintenance and an overview of effluent disposal, tertiary treatment and reclamation. Emphasis is also given to the role of the operator and provides preparation for solving process control calculations and problems typical of those found in Operator Certification examinations.

WWT 197 Wastewater Technology Education Topics (.5-4)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.

Note: May be taken 4 times

Topics in Wastewater Technology Education. See Class Schedule for specific topic offered. Course title will designate subject covered.

WWT 215 Motors and Pumps, Operation and Maintenance (3)

3 hours lecture

Recommended preparation: WTE/WWT 110

Note: Cross listed as WTE 215; may be taken 4 times

Identification of problems encountered, causes of problems, corrective solutions, and repairs in the operation of pumps and motors. Implementation of maintenance programs including scheduling and recordkeeping.

WWT 225 San Diego Regional Internship (4)

12 hours laboratory

Note: Cross listed as WTE 225; Credit/No Credit grading only; may be taken 2 times

This class will provide students with the opportunity to gain work experience in San Diego County water and wastewater agencies through a formal internship. The one-year internship will provide experience in four primary areas: system operations, system maintenance, wastewater treatment and water treatment. Students must apply to the program and be accepted by a regional interview committee comprised of representatives from San Diego County water and wastewater agencies, Cuyamaca and Palomar Colleges and the San Diego County Water Authority.

Water Technology Education (WTE)

 $\label{lem:contact} \textbf{Contact Occupational \& Noncredit Programs for further information}.$

(760) 744-1150. ext. 2284

Office: AA-138

(3)

(3)

Associate in Arts Degrees -

AA Degree requirements are listed in Section 6 (green pages).

• Water Technology Education

Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages).

• Water Technology Education

PROGRAM OF STUDY

Water Technology Education

Specifically designed for individuals employed by or seeking employment in water districts in San Diego County.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requi	Units	
WTE 100	Waterworks Distribution	3
WTE 105	Water Treatment Plant Operation I	3
WTE/WWT 110	Waterworks Mathematics	3
WTE/WWT 120	Instrumentation and Controls	3
WTE/WWT/		
PWM 125	Supervision	3
WTE 150	Water Quality Monitoring	3
WTE/WWT 215	Motors/Pumps/Oper/Maintenance	3
Electives (Selec	et 9 units)	
WTE/WWT 135	Backflow Prevention	3
WTE/WWT 138	Cross Connection Specialist	3
WTE 197	Water Technology Education Topics	.5-4
WTE 205	Waterworks Distribution II	3
WTE 210	Water Treatment Plant Operation II	3
WTE/WWT 225	San Diego Regional Internship	4-8
CE 100*	Cooperative Education	3,4
TOTAL UNITS		30

^{*} Cooperative Education must be related to this major.

COURSE OFFERINGS

Courses numbered under 50 are non-degree courses.

Courses numbered under 100 are not intended for transfer credit.

WTE 45 Vocational Math Skills for WWT/WTE (3)

3 hours lecture

Note: Cross listed as WWT 45

Introduction to the basic mathematic skills used in water and wastewater calculations. Particular interest is given to industry-relevant problems and examples.

WTE 100 Waterworks Distribution (3)

3 hours lecture

Recommended preparation: WTE/WWT 45

Note: May be taken 4 times

Water utility system operations and maintenance. An introduction to the principles of pressure pipe systems and the hydraulics involved in their operation. Design, installation, operation, and maintenance of basic elements of water systems including pipes, pumps, valves, meters, and related hydraulic units. Operations and maintenance safety considerations emphasized. This course prepares students for the "American Water Works Association" Grade I and Grade II exams.

