

# CE 39: OPERATION OF WASTEWATER TREATMENT PLANTS III

## In Workflow

1. CE Committee Chair (j.garcia@csus.edu)
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## Approval Path

1. Fri, 01 Mar 2024 00:09:53 GMT  
Jose Garcia (j.garcia): Approved for CE Committee Chair
2. Fri, 01 Mar 2024 01:30:09 GMT  
Ghazan Khan (khan): Approved for CE Chair

Date Submitted: Thu, 29 Feb 2024 22:27:24 GMT

**Viewing: CE 39 : Operation of Wastewater Treatment Plants III**

**Last edit: Thu, 29 Feb 2024 22:27:23 GMT**

Changes proposed by: Ghazan Khan (216292896)

**Contact(s):**

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**Catalog Title:**

Operation of Wastewater Treatment Plants III

**Class Schedule Title:**

Ops. of Wastewater Plants III

**Academic Group: (College)**

CCE - College of Continuing Education

**Academic Organization: (Department)**

Civil Engineering

**Will this course be offered through the College of Continuing Education (CCE)?**

Yes

**Please specify:**

CCE Only

**Catalog Year Effective:**

Fall 2024 (2024/2025 Catalog)

**Subject Area: (prefix)**

CE - Civil Engineering

**Catalog Number: (course number)**

39

**Course ID: (For administrative use only.)**

201082

**Units:**

6

**Is the only purpose of this change to update the term typically offered or the enforcement of existing requisites at registration?**

No

**In what term(s) will this course typically be offered?**

Fall, Spring, Summer

**Does this course require a room for its final exam?**

No, final exam does not require a room

**This course complies with the credit hour policy:**

Yes

**Justification for course proposal:**

Operation of Wastewater Treatment Plants III course is for prospective wastewater treatment plant operators seeking a career in the wastewater treatment industry, experienced operators seeking higher responsibilities or promotions, and engineers and other professionals working in the water treatment industry.

This course is being revised and updated based on updates and revisions to the training manual developed by the Office of Water Programs, "Operation of Wastewater Treatment Plants, Volume 3". This is a distance learning asynchronous course designed to train operators in the safe and effective operation and maintenance of wastewater treatment plants focusing on effluent discharge and reuse, odor control, instrumentation, and utility management.

The course is offered only through CCE and participants have 6 months to complete the course. The course is not part of any undergraduate or graduate degree programs. It serves as a stand-alone training course for operators of wastewater treatment plant operators.

**Course Description: (Not to exceed 80 words and language should conform to catalog copy.)**

Train operators in practical aspects of operating and maintaining wastewater treatment plants, emphasizing safe practices and procedures using the training manual, "Operation of Wastewater Treatment Plants," Volume 3, 1st Edition. Topics include wastewater as a resource and its components; treating and discharging effluent to receiving waters or for reuse in communities and industries; identifying, preventing, and controlling odor from wastewater conveyance and treatment facilities; process automation, instrumentation concepts and equipment

**Are one or more field trips required with this course?**

No

**Fee Course?**

No

**Is this course designated as Service Learning?**

No

**Is this course designated as Curricular Community Engaged Learning?**

No

**Does this course require safety training?**

No

**Does this course require personal protective equipment (PPE)?**

No

**Does this course have prerequisites?**

No

**Does this course have corequisites?**

No

**Graded:**

EXC

**Approval required for enrollment?**

No Approval Required

**Course Component(s) and Classification(s):**

Independent Study

**Independent Study Classification**

CS#78 - Non-traditional Instruction, Examination or Evaluation. All CS#78 courses are state supported (no WTU generated)

**Independent Study Units**

6

**Is this a paired course?**

No

**Is this course crosslisted?**

No

**Can this course be repeated for credit?**

No

**Can the course be taken for credit more than once during the same term?**

No

**Description of the Expected Learning Outcomes and Assessment Strategies:**

List the Expected Learning Outcomes and their accompanying Assessment Strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers). Click the plus sign to add a new row.

	Expected Learning Outcome	Assessment Strategies
1	After successfully completing the course, the participants will be able to  1) understand the operation and maintenance requirements of wastewater treatment plants,  2) understand the basic operation and maintenance of effluent discharge and reuse processes at wastewater treatment plants,  3) understand how to identify, prevent, control, and treat odors generated by wastewater treatment and conveyance facilities,  4) understand the concepts, equipment, and use of instrumentation systems in the operation of wastewater treatment plants,  5) understand the functions and responsibilities of wastewater treatment plant managers, and  6) understand common mathematical concepts and practices used in the operation and maintenance of wastewater treatment plants.	Participants must complete all six chapter objective tests with a cumulative grade of 70% or higher to qualify to take the final exam (62% of the course questions). The student must also earn a grade of 70% or higher on the final exam to pass the course (38% of the course questions). Please see attached course description/syllabus for details.

**Is this course required in a degree program (major, minor, graduate degree, certificate?)**

No

**Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?**

No

**Will there be any departments affected by this proposed course?**

No

**I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.**

I/we agree

## **University Learning Goals**

### **Undergraduate Learning Goals:**

Intellectual and practical skills

**Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?**

No

## **GE Course and GE Goal(s)**

**Is this a General Education (GE) course or is it being considered for GE?**

No

**Please attach any additional files not requested above:**

CE 39 Course Description - Syllabus.docx

Key: 14930