CE 252: ENVIRONMENTAL QUALITY PROCESSES II

In Workflow

1. CE Committee Chair (j.garcia@csus.edu)
2. CE Chair (khan@csus.edu)
3. ECS College Committee Chair (abadi@csus.edu)
4. ECS Dean (101010646@csus.edu)
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7. Dean of Undergraduate (james.german@csus.edu; renee.leonard@csus.edu)
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9. Catalog Editor (catalog@csus.edu)
10. Registrar's Office (wlindsey@csus.edu)
11. PeopleSoft (PeopleSoft@csus.edu)

Approval Path

1. Sat, 17 Sep 2022 22:00:37 GMT
   Jose Garcia (j.garcia): Approved for CE Committee Chair
2. Sun, 18 Sep 2022 00:26:13 GMT
   Ghazan Khan (khan): Approved for CE Chair
3. Fri, 07 Oct 2022 19:52:23 GMT
   Masoud Ghodrat Abadi (abadi): Approved for ECS College Committee Chair
4. Fri, 07 Oct 2022 23:54:14 GMT
   101010646: Approved for ECS Dean

History

1. Sep 14, 2022 by Julie Fogarty (fogarty)

Date Submitted: Sat, 17 Sep 2022 21:33:50 GMT

Viewing: CE 252 : Environmental Quality Processes II

Formerly known as: CE 252B

Last approved: Wed, 14 Sep 2022 15:11:35 GMT

Last edit: Fri, 07 Oct 2022 19:52:12 GMT

Changes proposed by: Jose Garcia (223000076)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
Ghazan Khan	khan@csus.edu	916-278-3886

Catalog Title:
Environmental Quality Processes II

Class Schedule Title:
Envr Quality Processes II

Academic Group: (College)
ECS - Engineering & Computer Science

Academic Organization: (Department)
Civil Engineering

Will this course be offered through the College of Continuing Education (CCE)?
No

Catalog Year Effective:
Fall 2023 (2023/2024 Catalog)

Subject Area: (prefix)
CE - Civil Engineering

Catalog Number: (course number)
252

Course ID: (For administrative use only.)
107636

Units:
3

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

Does this course require a room for its final exam?
Yes, final exam requires a room

This course complies with the credit hour policy:
Yes

Justification for course proposal:
Civil engineering undergraduate courses were renumbered. Updated prerequisites to match renumbered undergraduate courses. Removed "CE 251 recommended" from prerequisites and included it in Course Note section.

Course Description: (Not to exceed 80 words and language should conform to catalog copy.)
Theory and practice of biological processes for controlling water. Stoichiometry and kinetics of microbial growth. Aerobic and anaerobic metabolism. Engineered suspended and attached growth systems. Introduction to sludge treatment.

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

Course Note: (Note must be a single sentence; do not include field trip or fee course notations.)
CE 251 recommended.

Does this course have prerequisites?
Yes

Prerequisite:
CE 150, 150L, and 151.

Prerequisites Enforced at Registration?
Yes

Does this course have corequisites?
No

Graded:
Letter

Approval required for enrollment?
No Approval Required

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

Seminar Classification
CS#05 - Seminar (K-factor=1 WTU per unit)
Seminar Units
3

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	Describe the important aspects of environmental microbiology in relation to their application in engineered treatment processes.	-Homework assignments (problems) -exams
2	Explain how the biological phenomena common to treatment processes affect water quality.	-Homework assignments (problems) -exams
3	Develop analytical techniques to model various biological processes in a treatment plant setting.	-Homework assignments (problems) -exams
4	Apply various analytical methods to design treatment processes and predict their performance.	-Homework assignments (problems) -exams
5	Review contemporary issues relating to biological aspects of environmental engineering.	-research paper

Attach a list of the required/recommended course readings and activities:
CE252_syllabus-v2.pdf

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?
Yes

Indicate which department(s) will be affected by the proposed course:

Department(s)
Civil Engineering

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

Graduate (Masters) Learning Goals:

Critical thinking/analysis
Communication
Disciplinary knowledge

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

Is this a Graduate Writing Intensive (GWI) course?

No

Key: 575