

CE 151A: ENVIRONMENTAL ENGINEERING PRACTICE

In Workflow

1. CE Committee Chair (fogarty@csus.edu)
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10. Registrar's Office (w lindsey@csus.edu)
11. PeopleSoft (PeopleSoft@csus.edu)

Approval Path

1. Thu, 17 Sep 2020 23:04:41 GMT
Julie Fogarty (fogarty): Approved for CE Committee Chair
2. Fri, 18 Sep 2020 15:26:38 GMT
Benjamin Fell (fellb): Approved for CE Chair
3. Fri, 16 Oct 2020 17:55:58 GMT
Gareth Figgess (figgess): Approved for ECS College Committee Chair
4. Fri, 16 Oct 2020 17:57:54 GMT
Kevan Shafizadeh (kevan): Approved for ECS Dean

History

1. Mar 5, 2019 by Amir Motlagh (motlagh)
2. Mar 18, 2020 by Julie Fogarty (fogarty)

Date Submitted: Thu, 17 Sep 2020 22:44:28 GMT

Viewing: CE 151A : Environmental Engineering Practice

Formerly known as: CE 150B / CE 170B

Last approved: Wed, 18 Mar 2020 14:00:51 GMT

Last edit: Thu, 17 Sep 2020 22:44:27 GMT

Changes proposed by: Julie Fogarty (218645519)

Contact(s):

| Name (First Last) | Email | Phone 999-999-9999 |
|-------------------|----------------|--------------------|
| Ben Fell | fellb@csus.edu | 916-278-8139 |

Catalog Title:

Environmental Engineering Practice

Class Schedule Title:

Envir Engr Practice

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 2021 (2021/2022 Catalog)

Subject Area: (prefix)

CE - Civil Engineering

Catalog Number: (course number)

151A

Course ID: (For administrative use only.)

202988

Units:

2

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

Does this course replace an existing experimental course?

No

This course complies with the credit hour policy:

Yes

Justification for course proposal:

This course is being submitted to complete the course renumbering for the undergraduate CE program that occurred in Fall 2019. The only change is to the number from CE 150B to CE 151. Please drop the letter A on this course (another course that has been submitted to workflow for deactivation is currently using the number CE 151).

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

Introduction to environmental engineering professional practices. Water and wastewater treatment processes. Solid waste management. Air quality parameters and management. Sustainability.

Are one or more field trips required with this course?

No

Fee Course?

No

Is this course designated as Service Learning?

No

Does this course require safety training?

No

Does this course require personal protective equipment (PPE)?

No

Does this course have prerequisites?

Yes

Prerequisite:

CE 150. Not currently enrolled in CE 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):

Lecture

Lecture Classification

CS#02 - Lecture/Discussion (K-factor=1 WTU per unit)

Lecture Units

2

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: Describe outcomes using the following format: 'Students will be able to: 1), 2), etc.'

Students will be able to:

1. Describe and apply the fundamentals of water pollution to solve basic environmental engineering problems
2. Perform preliminary design calculations for principal components in water and wastewater treatment processes
3. Describe major stormwater pollutants, their sources, effects and mitigation measures
4. Describe major air pollutants, their sources, health and environmental effects, and fates
5. Identify common control strategies and technologies for air pollution
6. Identify and evaluate potential environmental impacts and sustainability issues for engineering projects
7. Describe the connections between climate change and civil engineering practice

Attach a list of the required/recommended course readings and activities:

CE150B (F19).docx

Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above.

Home assignments and exams (ELO 1-7)

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

Yes

Has a corresponding Program Change been submitted to Workflow?

No

Identify the program(s) in which this course is required:**Programs:**

BS in Civil Engineering

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:**

Competence in the disciplines

Knowledge of human cultures and the physical and natural world
Personal and social responsibility
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

Key: 13682