

CE 150L: ENVIRONMENTAL ENGINEERING LABORATORY

In Workflow

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Approval Path

1. Sat, 12 Oct 2019 03:22:07 GMT
Julie Fogarty (fogarty): Approved for CE Committee Chair
2. Mon, 14 Oct 2019 18:00:44 GMT
Benjamin Fell (fellb): Approved for CE Chair
3. Fri, 25 Oct 2019 16:31:53 GMT
Troy Topping (troy.topping): Approved for ECS College Committee Chair
4. Fri, 25 Oct 2019 16:53:38 GMT
Kevan Shafizadeh (kevan): Approved for ECS Dean

New Course Proposal

Date Submitted: Sat, 12 Oct 2019 03:14:27 GMT

Viewing: CE 150L : Environmental Engineering Laboratory

Last edit: Sat, 12 Oct 2019 03:14:26 GMT

Changes proposed by: Julie Fogarty (218645519)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
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Catalog Title:

Environmental Engineering Laboratory

Class Schedule Title:

Envir Engr Lab

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 2020 (2020/2021 Catalog)

Subject Area: (prefix)

CE - Civil Engineering

Catalog Number: (course number)

150L

Course ID: (For administrative use only.)

TBD

Units:

1

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

Fall, Spring

Does this course require a room for its final exam?

No, final exam does not require a room (Last Class)

Does this course replace an existing experimental course?

No

This course complies with the credit hour policy:

Yes

Justification for course proposal:

There is a high DFW rate for many of the combined CE lecture/lab courses. This leads to delayed graduation since repeating students need to be accommodated which prevents those seeking to take the course for the first time from enrolling in limited laboratory seats.

Separating the civil engineering lab and lecture experiences will:

- 1) open up the limited lab seats available for students first attempting the course;
- 2) enable students who have failed the combined lab/lecture courses to better spend their time on the lecture content when repeating the course if they have already successfully completed the lab activities

Undergraduate CE courses are being renumbered to clarify course pre- and co-requisites and topic areas to help students plan their path to graduation. Prerequisites numbers (not courses) are being changed to reflect course number changes.

The current offering of the 3-unit CE 170A will be separated into a 2-unit lecture only session (CE 150) and a 1-unit laboratory only session (CE 150L). The new offerings will be co-requisites meaning students must take CE 150 and CE 150L together unless a student has already successfully completed one course in the co-requisite pair.

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

This is the laboratory course that supports CE 150. Activities include water quality testing and computer modeling. Laboratory three hours.

Are one or more field trips required with this course?

Yes

Fee Course?

No

Is this course designated as Service Learning?

No

Does this course require safety training?

Yes

Does this course require personal protective equipment (PPE)?

Yes

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

This course requires safety training and personal protective equipment (PPE).

Does this course have prerequisites?

Yes

Prerequisite:

CHEM 1E or CHEM 1A, ENGR 115, CE 1, and CE 101. CE 101 may be taken concurrently. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 150L.

Prerequisites Enforced at Registration?

Yes

Does this course have corequisites?

Yes

Corequisite:

CE 150

Corequisites Enforced at Registration?

Yes

Graded:

Letter

Approval required for enrollment?

No Approval Required

Course Component(s) and Classification(s):

Laboratory

Laboratory Classification

CS#16 - Science Laboratory (K-factor=2 WTU per unit)

Laboratory Units

1

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."

After completing this course, Students will be able to:

1. Describe test procedures for a variety of water quality parameters.
2. Calculate water quality parameters from laboratory data.
3. Relate physical and chemical phenomena discussed in class to personal experience with these phenomena in the laboratory.

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

CE150L (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.

Reports, calculation assignments, quizzes, and a final exam (ELO 1-3)

For whom is this course being developed?

Majors in the Dept

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

Yes

Has a corresponding Program Change been submitted to Workflow?

Yes

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
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: 14138