CE 1L: INTRODUCTION TO CIVIL ENGINEERING

In Workflow

1. CE Committee Chair (fogarty@csus.edu)
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3. ECS College Committee Chair (tongren.zhu@csus.edu)
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Approval Path

1. 2026-09-28T23:16:47Z
   Julie Fogarty (fogarty): Approved for CE Committee Chair
2. 2026-09-29T20:36:15Z
   Saad Merayyan (merayyan): Approved for CE Chair
3. 2026-10-16T16:34:19Z
   Tongren Zhu (tongren.zhu): Approved for ECS College Committee Chair
4. 2026-10-16T17:00:06Z
   Behnam Arad (arad): Approved for ECS Dean

New Course Proposal

Date Submitted: 2026-09-28T22:41:19Z

Viewing: CE 1L : Introduction to Civil Engineering

Last edit: 2026-09-28T22:41:18Z

Changes proposed by: Julie Fogarty (218645519)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
Julie Fogarty	fogarty@csus.edu	916-278-7335

Catalog Title:
Introduction to Civil Engineering

Class Schedule Title:
Intro to Civil Engineering

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 2027 (2027/2028 Catalog)

Subject Area: (prefix)
CE - Civil Engineering

Catalog Number: (course number)
1L

Course ID: (For administrative use only.)
203300

Units:
1

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

Does this course replace an existing experimental course?
No

This course complies with the credit hour policy:
Yes

Justification for course proposal:
Our current course Civil Engineering Seminar (CE 1) has served as our introductory course, but the once weekly lectures severely limit our ability to provide engaging hands-on activities, access to our civil engineering laboratories, and interaction with upper-division major students and department faculty. This new course (1 unit lab) will enable us to engage freshmen (or those interested in switching majors) with a much better glimpse of what their upper division coursework and professional careers will look like if they persist in the civil engineering major past the basic math and science courses (where most of our major attrition occurs).

Course Description: (Not to exceed 90 words and language should conform to catalog copy.)
Introduces essential principles and practices of civil engineering with hands-on activities and laboratory visits. Students will explore sub-disciplinary fields including environmental engineering, geotechnical engineering, structural engineering, transportation engineering, and water resources engineering. Emphasizes application of engineering principles to solve real-world challenges and understand the role of civil engineering professionals in society.

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

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?
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) which will be provided during laboratory visits.

Does this course have prerequisites?
No

Does this course have corequisites?
No

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 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 role of civil engineering professionals in society	Writing Partners letters, Case Study Assignments
2	Explain the sub-disciplines within civil engineering and their role in infrastructure development	Design Challenges, Writing Partners letters, Case Study Assignments, Laboratory/Field Visit Assignments
3	Discuss ethical considerations related to civil engineering including the need for sustainable practices in civil engineering design and construction	Case Study Assignments
4	Demonstrate the ability to communicate effectively and understand the importance of effective communication in Civil Engineering practice.	Design Challenges, Writing Partners letters, Case Study Assignments
5	Observe lab practices relevant to civil engineering	Laboratory/Field Visit Assignments

Attach a list of the required/recommended course readings and activities:
CE 1L Syllabus.docx

For whom is this course being developed?
Majors in the Dept
Majors of other Depts
Other

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
Personal and social responsibility
Integrative learning

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 General Education (GE) or Graduation Requirement (GR) course or is it being considered for GE/GR?

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

No

Key: 15600