CE 152: STORMWATER MANAGEMENT

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 (arad@csus.edu)
- 5. Academic Services (curriculum@csus.edu)
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- 7. Dean of Undergraduate (gardner@csus.edu)
- 8. Dean of Graduate (cnewsome@skymail.csus.edu)
- 9. Catalog Editor (catalog@csus.edu)
- 10. Registrar's Office (k.mcfarland@csus.edu)
- 11. PeopleSoft (PeopleSoft@csus.edu)

Approval Path

 Thu, 24 Aug 2023 21:46:27 GMT Jose Garcia (j.garcia): Approved for CE Committee Chair

2. Thu, 24 Aug 2023 21:48:37 GMT Ghazan Khan (khan): Approved for CE Chair

3. Fri, 25 Aug 2023 16:23:27 GMT

Masoud Ghodrat Abadi (abadi): Approved for ECS College Committee Chair

4. Fri, 25 Aug 2023 20:00:08 GMT Behnam Arad (arad): Approved for ECS Dean

New Course Proposal

Date Submitted: Thu, 24 Aug 2023 21:44:33 GMT Viewing: CE 152 : Stormwater Management Last edit: Fri, 25 Aug 2023 16:14:18 GMT

Changes proposed by: Jose Garcia (223000076)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
Amir Motlagh	motlagh@csus.edu	916-278-2937

Catalog Title:

Stormwater Management

Class Schedule Title:

Stormwater Management

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:

Spring 2024 (2023/2024 Catalog)

Subject Area: (prefix)
CE - Civil Engineering

Catalog Number: (course number)

152

Course ID: (For administrative use only.)

168536

Units:

3

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

Nο

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

Spring term only

Does this course require a room for its final exam?

Yes, final exam requires a room

Does this course replace an existing experimental course?

Yes

This course complies with the credit hour policy:

Yes

Justification for course proposal:

With increasing population and climate change, stormwater management, particularly in urbanized areas become a critical component of civil engineering. This course was proposed as an experimental course (CE 196B) and has been taught twice (Spring 2022, Spring 2023). In the Spring 2022, 13 students enrolled in the class, and the enrollment was 33 for Spring 2023. Class is proposed to become a permanent course.

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

Introduction to the principles and practices of urban stormwater management. Hydrologic and hydraulic design of small drainage systems. Physical and chemical principles affecting stormwater quality, environmental effects, and treatment. Choosing and designing Best Management Practices. Low Impact Development. Overview of requirements for managing construction runoff and erosion control.

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?

Νo

Does this course require personal protective equipment (PPE)?

Νo

Does this course have prerequisites?

Yes

Prerequisite:

CE 150, CE 150L, CE 130, CE 130L

Prerequisites Enforced at Registration?

Yes

Does this course have corequisites?

No

Graded:

Letter

Approval required for enrollment?

Department Approval

Course Component(s) and Classification(s):

Discussion

Discussion Classification

CS#04 - Lecture / Recitation (K-factor=1 WTU per unit)

Discussion Units

3

Is this a paired course?

Nο

Is this course crosslisted?

No

Can this course be repeated for credit?

Nο

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	Calculate runoff flows and volumes.	Homework assignments Project Exams
2	Design stormwater collection and conveyance facilities for small areas.	Homework assignments Project Exams
3	Describe the impacts of urbanization on stormwater quality and quantity.	Homework assignments Exams
4	Analyze the environmental effects of stormwater discharges to local water bodies.	Homework assignments Exams
5	Assess the need for and make appropriate choices of Best Management Practices as part of a Low Impact Development strategy.	Homework assignments Project Exams
6	Design standard treatment BMPs and explain the basis of design and implementation of practices to minimize stormwater impacts.	Homework assignments Project Exams
7	Describe the basic legislation, goals, agencies, and regulatory practices and reasons behind the regulatory practices employed in stormwater management.	Project

For whom is this course being developed?

Majors in the Dept

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:

Competence in the disciplines 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?

Please attach any additional files not requested above:

CE 152_Sp24_Syllabus_Academic Council Template.docx CE 196B Enrollment.docx

Key: 14929