CM 220: ADVANCED CONSTRUCTION SAFETY MANAGEMENT

In Workflow

1. CM Committee Chair (figgess@csus.edu)
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9. Catalog Editor (catalog@csus.edu)
10. Registrar's Office (k.mcfarland@csus.edu)
11. PeopleSoft (PeopleSoft@csus.edu)

Approval Path

1. 2026-10-01T20:40:10Z
   Gareth Figgess (figgess): Rollback to Initiator
2. 2026-10-02T18:03:53Z
   Gareth Figgess (figgess): Approved for CM Committee Chair
3. 2026-10-02T20:03:43Z
   Gareth Figgess (figgess): Approved for CM Chair
4. 2026-10-16T17:03:28Z
   Tongren Zhu (tongren.zhu): Approved for ECS College Committee Chair
5. 2026-10-16T17:04:22Z
   Behnam Arad (arad): Approved for ECS Dean

History

1. Sep 9, 2024 by Atefeh Mohammadpour (a.mohammadpour)

New Course Proposal

Date Submitted: 2026-10-01T21:07:08Z

Viewing: CM 220 : Advanced Construction Safety Management

Formerly known as: CM 296B

Last approved: Mon, 09 Sep 2024 14:04:52 GMT

Last edit: 2026-10-16T05:44:21Z

Changes proposed by: Atefeh Mohammadpour (223019524)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
Atefeh Mohammadpour	a.mohammadpour@csus.edu	(916) 278-7659

Catalog Title:
Advanced Construction Safety Management

Class Schedule Title:
Advanced Const. Safety Mgmt.

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

Academic Organization: (Department)
Construction Management

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

Catalog Year Effective:
Fall 2027 (2027/2028 Catalog)

Subject Area: (prefix)
CM - Construction Management

Catalog Number: (course number)
220

Course ID: (For administrative use only.)
203925

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:
This course is transitioning from an experimental offering to a permanent part of the curriculum in support of the upcoming M.S. in Construction Management program.

Course Description: (Not to exceed 90 words and language should conform to catalog copy.)
The Advanced Construction Safety Management course is designed to provide students with an in-depth understanding of the principles, strategies, techniques, and technology used to manage safety in the construction industry and examine its complexity. This course explores emerging safety management techniques and technologies with a particular emphasis on subjects including human error and safety behavior, safety risk analysis and management, and advanced techniques to identify and evaluate construction-specific hazards. 3 units.

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)

Does this course have prerequisites?
Yes

Prerequisite:
Graduate standing in Construction Management, or instructor permission.

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	Evaluate complex factors that contribute to construction site safety, including risk assessment, hazard identification, regulatory compliance, and safety culture.	In-Class Activities, Discussion, Final Project, and Exam
2	Assess how emerging technologies can be integrated to enhance construction site safety and monitoring, such as drones, wearable devices, and the Internet of Things (IoT).	In-Class Activities, Discussion, Final Project, and Exam
3	Analyze the psychological and behavioral human factors that affect workers construction safety performance.	In-Class Activities, Discussion, Final Project, and Exam
4	Measure safety performance through data-driven analysis and machine learning techniques.	In-Class Activities, Discussion, Final Project, and Exam
5	Apply data analytics in prediction, classification and anomaly detection in construction safety.	In-Class Activities, Discussion, Final Project, and Exam

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:
MS in Construction Management

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

Graduate (Masters) Learning Goals:

Disciplinary knowledge
Communication
Critical thinking/analysis
Information literacy
Professionalism
Intercultural/Global perspectives
Research (optional)

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

Please attach any additional files not requested above:

CM 220 Advanced Construction Safety Management.pdf

Reviewer Comments:

Gareth Figgess (figgess) (Thu, 01 Oct 2026 20:40:10 GMT): Rollback: as requested

Key: 15050