

CONSTRUCTION ENGINEERING & MANAGEMENT, MINOR

College of Engineering

California's construction industry continues to experience high growth as it continues to accommodate an increasing population and as it faces renewal of much of the infrastructure built by previous generations. At the same time, the construction industry faces challenges of scarce materials, a need for decreased environmental impact in terms of the construction process itself and operation of the completed project, and a more complex operational, regulatory and social context in which it must do its work.

The purpose of this minor is to better prepare professional civil and environmental engineers to thrive in this challenging industry and to improve the efficiency of delivery and sustainability of the civil infrastructure in the state through their future efforts.

It is expected that engineering students will enroll in this minor program, including Civil, Mechanical, Chemical, and Materials Science majors. Students from other colleges can also complete this minor, but it is recommended that they review the requirements with one of the advisors before enrolling. Students who are interested in the construction of infrastructure in their discipline can make use of the skills that will be learned through the completion of this minor.

All courses must be taken for a letter grade. A grade of C- or better is required for all courses used to satisfy minor requirements, with an overall GPA of 2.000 or better. All prerequisites for courses must have been taken for a letter grade; no grade lower than a C- will be accepted in any prerequisite course.

The online Minor Declaration form is available via the Online Advising Student Information System (OASIS) (<https://students.ucdavis.edu/>). For more information, contact the undergraduate advisors (civiladvising@ucdavis.edu) in the Department of Civil & Environmental Engineering.

Transcript notation must be requested no later than the quarter preceding graduation, and will appear as a minor in Construction Engineering & Management.

Course Overlap

Please refer to your college's policies regarding overlap rules.

Minor Advisors

C. Bronner, J. Harvey, S. Miller, J. Bolander, S. Nassiri

Code	Title	Units
May include one from:		
ARE 018	Business Law	4
MGT 011A	Elementary Accounting	4
or MGT 011AV	Elementary Accounting	4
or MGT 011AY	Elementary Accounting	4

Civil & Environmental Engineering

ECI 123	Urban Systems & Sustainability	4
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ECI 137	Construction Principles & Project Management	4
ECI 153	Deterministic Optimization & Design	4
Choose 12 units:		12
ARE 112	Fundamentals of Organization Management	
ARE 155	Operations Research & Management Science	
ARE 157	Analysis for Operations & Production Management	
ECI 179	Pavement Management, Evaluation, & Rehabilitation	
ECN 134 or ECN 134Y	Financial Economics	
ECN 162	International Economic Relations	
ESP 161	Environmental Law	
Total Units		24