

CROSS DISCIPLINARY STUDIES MINOR IN HEAVY CIVIL

Offered at: San Luis Obispo Campus

The Heavy Civil Minor is designed to prepare Construction Management and Civil Engineering students for careers in the heavy civil sector of the construction industry. Graduates in this field will have careers in the heavy civil sector of the construction industry, where they will help manage heavy civil projects such as highways, bridges, dams, water treatment facilities, power plants, and other large-scale infrastructure throughout the US and the world.

This minor is intended for students in the CM and CEENV Departments and acceptance to the minor is competitive. Contact the departmental offices of either major for more information about the application process. Application is normally made during a student's second year of study at Cal Poly. Coursework will be completed in both departments leading to common upper division courses, courses specific for the heavy civil minor, and a heavy civil internship required in the student's second or third year.

Minor Requirements and Curriculum

The minor must be completed prior to, or at the same time as, the requirements for the bachelor's degree. A major and a minor may not be taken in the same degree program, and a minor is not required for a degree. Requirements for the minor include:

- At least half of the units must be from upper-division courses (3000-4000 level).
- At least half of the units must be taken at Cal Poly (in residence).
- No more than one-third of the units will be taken with credit-no credit grading (CR/NC), not counting courses with mandatory CR/NC. Departments may further limit CR/NC grading if desired.
- A minimum 2.0 GPA is required in all units counted for completion of the minor.

Code	Title	Units
REQUIRED COURSES		
CE 3321	Fundamentals of Transportation Engineering	4
CE/CM 4436	Heavy Civil Temporary Structures and Shoring	3
CE/CM 4437	Heavy Civil Projects and Equipment	3
CM 3314	Heavy Civil Construction Management	4
CM 4485	Cooperative Education Experience	2
Approved Construction Management Electives		
Select from the following:		3-4
CM 1280	Fundamentals of Virtual Design and Construction Management	
CM 3334	Construction Law	
CM 4420	Professional Preparation	
CM 4421	Interdisciplinary Practices	
Approved Civil Engineering Electives		
Select from the following:		3-4
CE 2251	Computational Applications in Civil and Environmental Engineering	
CE 3465	Infrastructure Systems	
CE 4413	Advanced Civil Computer-Aided Site Design	
CE 4429	Highway Pavement Design	
CE 4474	Environmental Compliance and Permitting	
Total Units		22-24