

Minor in Civil Engineering

The purpose of the minor in Civil Engineering is to give students with sufficient background in mathematics, physics and chemistry, a fundamental understanding of the field of Civil Engineering. The minor should be of special interest to students in Geosciences (foundations and earthquake), Environmental Studies, Physics, Math, Computer Science, and other engineering fields. Students interested in the Civil Engineering minor must meet with the Program Head of Civil Engineering and complete the Civil Engineering Minor Program Approval Form. Revision of the form requires the approval of the Program Head.

The minor is intended for students who have satisfied the following prerequisite requirements:

Math 226	Calculus I (4)
Math 227	Calculus II (4)
Phys 220/222	General Physics with Calculus I & Lab (4)
Phys 240/242	General Physics with Calculus III & Lab (4)
Chem 180	Chemistry for the Energy and the Environment (3)

The minor may be satisfied by a minimum of 21 units (not including prerequisite units) distributed as follows:

Core requirements	15 units
ENGR 102	Statics (3)	
ENGR 201	Dynamics (3)	
ENGR 235	Surveying (3)	
ENGR 304	Mechanics of Fluids (3)	
ENGR 309	Mechanics of Solids (3)	
Electives	6 units
Approved upper division Civil Engineering courses, all within one of the Civil Engineering Focus areas, and not used to satisfy requirements in another major. There must be prior approval from the Head of Civil Engineering.		
Total (not including prerequisites units)	21 units

To earn a minor in Civil Engineering, a student must complete at least 12 of the required 21 core and elective units at SFSU. All courses in the minor must be taken with letter grades (CR/NC is not acceptable).

**School of Engineering
San Francisco State University**

Civil Engineering Minor Program Approval Form

Student name: _____ Major: _____

Address: _____

_____ Email: _____

_____ Telephone: _____

Prerequisite Courses	Units	Semester	Grade
Math 226 Calculus I	4		
Math 227 Calculus II	4		
Phys 220/222 General Physics with Calculus I & Lab	4		
Phys 240/242 General Physics with Calculus III & Lab	4		
Chem 180 Chemistry for the Energy and the Environment	3		
Core Requirements (15 units)			
ENGR 102 Statics	3		
ENGR 201 Dynamics	3		
ENGR 235 Survey	3		
ENGR 304 Mechanics of Fluids	3		
ENGR 309 Mechanics of Solids	3		
Electives (6 units)			
Total (21 units)			

Approved by: _____ Date: _____