

**CIVIL ENGINEERING DEPARTMENT**  
**MINOR PROGRAM IN STRUCTURAL ANALYSIS AND DESIGN**

The purpose of this minor program is to introduce students especially in the architecture department to the modern methods of structural analysis, and to acquaint them with current design procedures. The emphasis is on buildings although other structural forms will also be used to illustrate the underlying concepts.

**Prerequisite Courses**

CE	221	Engineering Mechanics 1	(3-0) 3
CE	224	Mechanics of Materials	(3-2) 4

**Compulsory courses**

CE	382	Reinforced Concrete Fundamentals	(3-0)3
CE	383	Structural Analysis	(3-0)3
CE	388	Fundamentals of Steel Design	(2-2)3

**Three of the following courses**

CE	418	Design of Tall Building Structures	(3-0)3
CE	423	Advanced Mechanics of Materials	(3-0)3
CE	425	Introduction to Finite Elements	(3-0)3
CE	481	Reinforced Concrete Structures	(3-0)3
CE	482	Design of Steel Structures	(3-0)3
CE	483	Advanced Structural Analysis	(3-0)3
CE	484	Prestressed Concrete	(3-0)3
CE	486	Design of Concrete Structures	(3-0)3
CE	488	Computer Applications in Structural Engineering	(3-0)3
CE	490	Introduction to Structural Earthquake Engineering	(3-0)3