

# Civil Engineering Minor

## Minor in Civil Engineering

Admission to the Joint Engineering program is required. A minimum of 18 credit hours in Joint Civil Engineering courses and Engineering courses are required.

### Required Courses

ENGR 2310	Statics	3
J M ENGR 2410	Mechanics of Deformable Bodies	3
J M ENGR 3700	Fluid Mechanics	3
<b>Take at least three courses from one of the tracks below:</b>		<b>9</b>

### Structures

J C ENGR 2160	Surveying
J M ENGR 3360	Material Science for J C ENGR
J C ENGR 3410	Structural Analysis
J C ENGR 3420	Structural Design
J C ENGR 4630	Design of Steel Structures
J C ENGR 4660	Advanced Design of Concrete Structures

### Water Resources/Environmental

J C ENGR 3520	Water and Wastewater Treatment
J C ENGR 3760	Hydraulic Engineering
J C ENGR 4830	Fundamentals of Surface Water Hydrology and Environmental Engineering
J C ENGR 4740	Economic Decisions in Engineering

### Transportation

J C ENGR 2160	Surveying
J C ENGR 3460	Transportation Engineering
J C ENGR 4600	Highway and Traffic Engineering

### Geotechnical

GEOL 1001	General Geology
J C ENGR 2160	Surveying
J M ENGR 3360	Material Science for J C ENGR
J C ENGR 4190	Soil Mechanics
J C ENGR 4640	Foundation Engineering
J C ENGR 4740	Economic Decisions in Engineering

### Construction Management

J C ENGR 2160	Surveying
J C ENGR 4720	Legal Aspects of Construction
J C ENGR 4730	Construction Operations and Management
J C ENGR 4740	Economic Decisions in Engineering

**Total Hours** **18**