

BS in Civil Engineering

Civil Engineering Major Requirements

J C ENGR 2160	Surveying	3
J C ENGR 3210	Computer Methods of Engineering Analysis	3
J C ENGR 3410	Structural Analysis	3
J C ENGR 3420	Structural Design	3
J C ENGR 3360	Civil Engineering Materials Lab	1
J C ENGR 3430	Civil Engineering Design CAD and GIS	3
J C ENGR 3460	Transportation Engineering	3
J C ENGR 3760	Hydraulic Engineering	3
J C ENGR 4190	Soil Mechanics	3
J C ENGR 4200	Soil Exploration and Testing	1
J C ENGR 4600	Highway and Traffic Engineering	3
J C ENGR 4640	Foundation Engineering	3
J C ENGR 4670	Structure Design Projects	3
or J C ENGR 4910	Water Hydrology and Hydraulic Design Project	
J C ENGR 4730	Construction Operations and Management	3
J C ENGR 4740	Economic Decisions in Engineering	3
J C ENGR 4950	Fundamentals of Civil Engineering Review	1

J C ENGR 4990	Senior Civil Engineering Seminar	1
J M ENGR 1413	Introduction to Engineering Design: CAD	2
J M ENGR 2410	Mechanics of Deformable Bodies	3
J M ENGR 3360	Material Science For J C ENGR	3
J M ENGR 3700	Fluid Mechanics	3
J M ENGR 3721	Fluid Mechanics Laboratory	1
MATH 1320	Introduction to Probability and Statistics	3
GEOL 1001A	General Geology	4
Civil Engineering Electives		6
Total Hours		58 68

Sign-offs from other departments affected by this proposal

None

Rationale Provides the needed skills requested by St. Louis area civil engineering firms.