Master of Science in Civil Engineering

Program Study Plan

The following4-semester model study plan assumes that a student takes 3 courses every semester in the first year and 2 courses every semester in the second year.

General Concentration

Semester 1 (Fall)*

Course	Course Title	Pre-req.
CIV502	Advanced Engineering Mathematics	Graduate standing
CIV503	Finite Element Analysis	Graduate standing
CIV561	Construction Project Management	Graduate standing

Semester 2 (Spring)**

Course	Course Title	Pre-req.
CIV518	Pre-stressed Concrete Design	Graduate standing
CIV521	Advanced Foundation Engineering	Graduate standing
CIV531	Urban Transportation Planning	Graduate standing

Semester 3 (Fall)

Course	Course Title	Pre-req.
CIV5xx	A Course in Water Resources or Environmental Engineering	Graduate standing
CIV599	Research Thesis ³ (3 credit hours)	Graduate standing

Semester 4 (Spring)

Course	Course Title	Pre-req.
	Major Elective 1	Graduate standing
CIV599	Research Thesis ³ (3 credit hours)	Graduate standing

³ A student may replace the 6 credit hours of CIV599 indicated in semesters 3 and 4 with the following:

• One Major Elective, and

CIV598 Profession Project

Structural Engineering Concentration

Semester 1 (Fall)

Course	Course Title	Pre-req.
CIV502	Advanced Engineering Mathematics	Graduate standing
CIV503	Finite Element Analysis	Graduate standing
CIV517	Advanced Steel Design	Graduate standing

Semester 2 (Spring)

Course	Course Title	Pre-req.
CIV518	Pre-stressed Concrete Design	Graduate standing
CIV521	Advanced Foundation Engineering	Graduate standing
CIV511	Structural Dynamics I	Graduate standing

Semester 3 (Fall)

Course	Course Title	Pre-req.
CIV516	Structural Bridge Design	Graduate standing
CIV599	Research Thesis ³ (3 credit hours)	Graduate standing

Semester 4 (Spring)

Course	Course Title	Pre-req.
	Major Elective 1	Graduate standing
CIV599	Research Thesis ³ (3 credit hours)	Graduate standing

³ A student may replace the 6 credit hours of CIV599 indicated in semesters 3 and 4 with the following:
One Major Elective, and
CIV598 Profession Project

Construction Engineering Concentration

Semester 1 (Fail)		
Course	Course Title	Pre-req.
CIV502	Advanced Engineering Mathematics	Graduate standing
CIV561	Construction Project Management	Graduate standing
CIV517	Advanced Steel Design	Graduate standing

Somostor 1 (Fall)

Semester 2 (Spring)

Course	Course Title	Pre-req.
CIV518	Pre-stressed Concrete Design	Graduate standing
CIV563	Building Construction Equipment & Methods	Graduate standing
CIV562	Construction Scheduling & Resource Management	Graduate standing

Semester 3 (Fall)

Course	Course Title	Pre-req.
CIV565	Construction Financial Management	Graduate standing
CIV599	Research Thesis ³ (3 credit hours)	Graduate standing

Semester 4 (Spring)

Course	Course Title	Pre-req.
	Major Elective 1	Graduate standing
CIV599	Research Thesis ³ (3 credit hours)	Graduate standing

³ A student may replace the 6 credit hours of CIV599 indicated in semesters 3 and 4 with the following:
One Major Elective, and
CIV598 Profession Project