

Master of Science in Engineering

Degree Codes: ES MSE ENGR

Concentration: Civil Engineering

Contact: Professor Ray Sterling

SCH Requirements: Thesis option: 30 SCH; Practicum option: 36 SCH; Coursework-only option: 36 SCH

Thesis Option: Research & Thesis SCH toward degree: 6

Practicum Option: Practicum SCH toward degree: 3

Coursework-only Option: As described below.

Course Category	Number	Course Name	SCH
Core Courses	<i>Take ENGR 501 and another course from this list</i>		6
	ENGR 501	Engineering Research Methods	3
	ENGR 541	Mathematical Methods for Engineering	3
	ENGR 592	Engineering Computational Methods	3
Concentration Courses	<i>Five of the following courses are required for students earning a concentration in Civil Engineering with the practicum or coursework-only option. Four courses are required for the thesis option.</i>		12 or 15
	CVEN 459	Introduction to Infrastructure Management	3
	CVEN 503	Urban Hydrosystems Engineering	3
	CVEN 504	Pollution Control and Residuals Management	3
	CVEN 505	Buried Structures-Rehabilitation and Management	3
	CVEN 506	Above-ground Structures: Assessment and Rehabilitation	3
	CVEN 580	Trenchless Technology	3

Beyond this point, follow one of the three options below. A Plan of Study showing the option selected is due at the end of the first quarter of enrollment. Approval of the graduate advisor will be required to switch options or advisors at a later date.

COURSEWORK-ONLY OPTION						
Electives	<i>3 courses approved by the Advisory Committee*</i>					9
MATH/STAT	One MATH and one STAT course					6
	TOTAL					36
THESIS OPTION				PRACTICUM OPTION		
Course Category	Number	Course Name	SCH	Number	Course Name	SCH
Other courses	<i>2 courses approved by the Advisory Committee*</i>		6	<i>4 courses approved by the Advisory Committee*</i>		12
Thesis or Practicum	CVEN 551	Research & Thesis in Civil Engr.	6	CVEN 555	Practicum in Civil Engr.	3
	TOTAL			TOTAL		
			30			36

* The maximum number of variable credit Independent Study courses that can be applied towards the degree is 6 SCH.