

**Technical Electives
Civil Engineering Program**

Civil Engineering Technical Elective Courses

Course #	Title	Credit	Pre- & Co-Requisite
CE 43400	Geotechnical Engineering Design	3	P: CE 38000 and CE 38100
CE 44800	Geotechnical Site Characterization	3	P: CE 38000 and CE 38100
CE 45000	Transportation Policy and Planning	3	P: CE 34500
CE 45100	Traffic Engineering	3	P: CE 34500
CE 46500	Water and Wastewater Engineering	3	P: CE 36500
CE 47500	Design of Steel Structures	3	P: CE 37500
CE 48000	Finite Element Analysis	3	P: CE 31800, CE 37500
CE 48400	Research in Civil Engineering	3	GPA \geq 3.0 and consent of faculty advisor
CE 48800	Civil Engineering Design Project II	3	P: CE 48700
CE 49000	Selected Topics in Civil Engineering	3	P: consent of instructor

Non-Civil Engineering Technical Elective Courses

Course #	Title	Credit	Pre- & Co-Requisite
CHM 11600	General Chemistry	4	P: CHM 11500 (C- or better), C: MA 16500
CHM 24100	Introductory Inorganic Chemistry	4	P: CHM 11600, MA 16500
CHM 26100	Organic Chemistry	3	P: CHM 11600
CET 20900	Land Surveying and Subdivision	3	P: CET 20600
ME 20000	Thermodynamics	3	P: CHM 11500, C: MA 26100
ME 47100	Vibrations Analysis	3	P: CE/ME 25100
ME 50900	Intermediate Fluid Mechanics	3	P: CE/ME 31800
BUS 30102	Operations Management	3	P: BUS 20101 and ECON 27000 or STAT 30100; sophomore class standing
BUS 30200	Management and Behavior in Organizations	3	P: sophomore class standing
SE 52000	Engineering Economics	3	P: senior or graduate standing
STAT 51200	Applied Regression Analysis	3	P: STAT 511, or 517, or 528 with C or higher

Notes:

- Maximum one elective can be taken from non-civil engineering courses.
- Effective starting spring 2023.