

CIVIL ENGINEERING OPTIONAL SPECIALIZATION*

INTEREST AREA	STRUCTURES ELECTIVE	ENGR SCIENCE ELECTIVE	TECHNICAL ELECTIVES	DESIGN ELECTIVE	MATH/ SCIENCE ELECTIVE	SUPPORTIVE ELECTIVE
Construction Engineering	CE 482 (F, Sp & Sum)	EM 313	CE 503 (F), CE 505 (F), CE 579 (Sp), CE 584 (F)	CE 403 (Sp)	MA 322	ACC 201
Environmental/ Water Quality Engineering	CE 482 (F, Sp & Sum)	ME 220	CE 460 (F), CE 541 (F), CE 555 (F)	CE 451 (Sp)	CHE 236	Envr Certificate Class
Geotechnical Engineering	CE 486G	EM 313	CE 487G (F), CE 534 (F)	CE 579 (Sp)	GLY 430 or MNG 551	CE 403 (Sp)
Hydraulic/Water Resources Engineering	CE 482 (F, Sp & Sum)	ME 220	CE 541 (F) and CE 460 (F), CE 542 (Sp), CE 546 (F)	CE 549 (Sp)	MA 321 or MA 416G	GEO 409G
Structural Engineering	CE 486G (F)	EM 313	CE 487G (F), CE 579 (Sp), CE 582 (Sp)	CE 589 (Sp)	ME 220, MA 321, MA 322 or MA 432G	CE 584 (F) or CE 586 (Sp)
Surveying	CE 482 (F, Sp & Sum)	EM 313	CE 531 (F), CE 517 (Sp), plus one	Any Tech Design Elective	GEO 409G	GEO 305, 415, or 420G
Transportation Engineering	CE 482 (F, Sp & Sum)	EM 313	CE 531 (F), CE 533 (Sp), CE 534 (F)	CE 539 (Sp)	GEO 409G	GEO 285 or GEO 305

*These are recommended elective courses. It is not mandatory for students to specialize at the undergraduate level. However, each student must take a structure elective, one engineering science elective (ME 220 or EM 313), one math or technical elective, an additional two technical electives, one design elective, one science elective and one supportive elective.

F = Fall; Sp = Spring; Sum = Summer