

ENGINEERING ELECTIVES

CEE Skills Electives

CEGR 2713 Introduction to GIS	<i>(spring only, even years)</i>
CEGR 2813 Introduction to Surveying	<i>(spring only, odd years)</i>
CEGR 3513 Civil Engineering Design Software	<i>(spring only)</i>

CEE Engineering Science Electives

CEGR 3011/3522 CEE Junior Research I & II	<i>(consecutive spring and fall)</i>
EVGR 3613 Air Pollution and Solid Waste*	<i>(spring only, even years)</i>
CEGR 3313 Structural Analysis**	<i>(fall only)</i>
CEGR 3813 Transportation Engineering	<i>(spring only, odd years)</i>
CEGR 3823 Construction Engineering	<i>(spring only, even years)</i>
CEGR 4713 Groundwater Hydrology	<i>(spring only, odd years)</i>
MEGR 2023 Dynamics	
MEGR 3713 Thermodynamics	
EEGR 2053 Electric Circuits	
MJET 2023/2021 Materials Joining Fundamentals & Lab (with extra credit hour)	<i>(spring only)</i>
Any additional CEE Design elective (with extra credit hour)	
Any additional advisor-approved, non-redundant 3000+ Engineering Course	

CEE Design Electives

CEGR 4224 Hydraulic Design*	<i>(fall only)</i>
CEGR 4324 Reinforced Concrete Design	<i>(fall only)</i>
EVGR 4634 Water and Wastewater Design*	<i>(spring only, odd years)</i>
CEGR 4744 Surface Water Hydrology*	<i>(spring only, even years)</i>
CEGR 4834 Structural Steel Design	<i>(spring only, odd years)</i>
CEGR 4944 Structural Loading and Wood Design	<i>(spring only, even years)</i>

Optional Focus Areas

Students may earn (1) a BSCE with no concentration or focus area, (2) a BSCE with a focus area, or (3) a BSCE with a concentration in Environmental Engineering. For option (2), students may choose to pursue one or more of the below focus areas:

Structural Engineering Focus

Required CEE Design Electives:

- CEGR 4324 Reinforced Concrete Design
- CEGR 4834 Structural Steel Design
- CEGR 4944 Structural Loading and Wood Design

Water Resources Engineering Focus

Required CEE Design Electives:

- CEGR 4224 Hydraulic Design
- EVGR 4634 Water and Wastewater Design
- CEGR 4744 Surface Water Hydrology

* Courses are not electives for students in the Environmental Engineering concentration

** Course is only an elective for students in the Environmental Engineering concentration