Course		2024 Fall	2025 Spring	2025 Fall	2026 Spring
CIVL 1100	Discovering Civil and Environmental Engineering	✓	✓	✓	✓
CIVL 1160	Civil Engineering and Modern Society	✓	✓	✓	✓
CIVL 1180	Monitoring Changing Climate from Space	✓		✓	
CIVL 1190	Climate Change, Big History and Sustainability	✓		✓	
CIVL 1210	Fundamental of Green Buildings	✓		✓	
CIVL 2020	Industrial and BIM Training		✓		✓
CIVL 2110	Statics	✓		✓	
CIVL 2120	Mechanics of Materials		√(Spring)		✓(Spring)
			✓ (Summer)		√(Summer)
CIVL 2160	Modeling Systems with Uncertainties	✓	,	✓	,
CIVL 2170	Infrastructure Systems Engineering and Management		✓		✓
CIVL 2410	Environmental Assessment and Management		√		✓
CIVL 2510	Fluid Mechanics		✓	/	✓
CIVL 2810	Construction Materials	✓		V	/
CIVL 3210	Introduction to Construction Management	✓	✓	✓	v
CIVL 3310	Structural Analysis	v	✓	· ·	
CIVL 3320	Reinforced Concrete Design		∀		√
CIVL 3420	Water and Wastewater Engineering	✓	V	✓	· ·
CIVL 3510	Hydrosystems Engineering	•	√	v	✓
CIVL 3610	Traffic and Transportation Engineering	✓	V	✓	,
CIVL 3730 CIVL 3740	Fundamentals of Geotechnics Geotechnical Analysis and Design	•	✓	•	✓
CIVL 3740 CIVL 3910	Smart Infrastructure Sensing and Data Analytics		·		· ·
CIVL 3910 CIVL 4100P	Wave Loads on Structures	√	•	√	· ·
CIVL 4100F	GIS for Smart City	· ·	√	,	✓
CIVL 4100R CIVL 4100T	Applications of Artificial Intelligence in Remote Sensing		· ·		
CIVL 41001 CIVL 4100U	Geographic Information System for Smart City	✓	•	✓	
CIVL 4210	Advanced Construction with AI and Robotics	, /		·	
CIVL 4210 CIVL 4220	Scientific Machine Learning for Infrastructure Systems		✓		✓
CIVL 4270	Construction Law and Contract Administration		· /		· /
	Energy System Modeling for Buildings and Cities	√		✓	
(CIVL 4100N)	Energy byseem Frodering for Bundings and orders				
CIVL 4320	Structural Steel Design	✓		✓	
CIVL 4330	Introduction to Structural Dynamics	✓		✓	
CIVL 4340	Prestressed Concrete Design		√		✓
CIVL 4370	Computer Methods of Structural Analysis		✓		✓
CIVL 4380	Introduction to Wind Effects on Buildings and Structures	✓		✓	
CIVL 4430	Environmental Impact Assessment		✓		✓
CIVL 4450	Carbon Footprint Analysis and Reduction		✓		✓
CIVL 4460	Process Design of Environmental Engineering Facilities	✓		✓	
CIVL 4470	Air Quality Control and Management	✓		✓	
	Climate Modeling and Risk Assessment		✓		
	Introduction to Data Analytics for Smart Transportation Systems	✓		✓	
CIVL 4620	Transportation System Operations	✓		✓	
CIVL 4640	Introduction to Smart City Economics		✓		✓
CIVL 4700	Engineering Geology	✓		✓	
CIVL 4710	Soil Slope Engineering		✓		✓
CIVL 4750	Numerical Solutions to Geotechnical Problems	✓		✓	
CIVL 4810	Construction Materials Technology		✓		
CIVL 4950	Civil Engineering Capstone Design Project	✓		✓	
CIVL 5110	Engineering Risk, Reliability and Decision		✓		
CIVL 5210	Principles of Project Finance				✓
CIVL 5220	BIM and Digital Construction	✓		✓	
CIVL 5230	Finance and Operations in Civil Engineering		✓		
CIVL 5321	Structural Sensing and Health Monitoring	✓			
(CIVL 6100P)					
CIVL 5370	Wind Effects on Buildings and Structures			√	
CIVL 5390	Finite Element Methods			✓	
CIVL 5410	Physical-Chemical Water/Wastewater Treatment			✓	
CIVL 5420	Biological Waste Treatment				✓
CIVL 5430	Aquatic Chemistry				✓
CIVL 5450	Hazardous Waste Treatment and Site Remediation	✓		✓	,
CIVL 5460	Landfill Engineering and Design		√		✓
CIVL 5510	Hydroclimate Data Analysis and Modelling		✓		,
CIVL 5520	Water Resources Systems Analysis		,		✓
CIVL 5550	Modeling Fluid Systems	,	✓	,	
CIVL 5610	Urban Transportation Networks Analysis	√		✓	
CIVL 5620	Travel Demand Analysis	· ·	✓		✓
CIVL 5640	Discrete Choice Experiments and Data Analysis	,	· ·		· ·
CIVL 5710	Advanced Soil Mechanics	✓			,
CIVL 5720	Advanced Foundation Design		,		✓
CIVL 5730	Theoretical and Computational Soil Mechanics	,	✓		
CIVL 5750	Geotechnical Earthquake Engineering and Soil Dynamics	✓		,	
CIVL 5770	Unsaturated Soil Mechanics and Engineering			√	
CIVL 5780	Soils and Waves	,		✓	
CIVL 5830	Advanced Mechanics of Materials	✓			,
CIVL 5840	Advanced Concrete Technology				√
CIVL 6100R	Climate Change and Climate Modeling				4