

CEEC Undergraduate Courses Offering 4-Year Plan (Spring 2025 to Fall 2028)

Required CEEC Courses

Year	Semester	Course Prefix	Name of the courses
2025/ 2026/ 2027/ 2028	Spring/Fall/Su	CEE 121	Elementary Surveying
	Spring/Fall/Su	CEE 241	Statics
	Spring	CEE 250	Sustainability in CEE
	Spring/Fall/Su	CEE 301	CAD Tools for Civil Engineering Design
	Spring/Fall/Su	CEE 307	Engineering Economics
	Spring	CEE 334	Soil Mechanics
	Spring/Fall	CEE 346/L	Civil Engineering Materials
	Spring	CEE 340	Introduction to Construction Engineering
	Spring/Fall	CEE 370/L	Engineering Mechanics of Deformable Bodies
	Fall	CEE 362	Transportation Engineering
	Fall	CEE 367/L	Fluid Mechanics
	Spring	CEE 371	Numerical Methods in CE
	Spring/Fall	CEE 381	Structural Analysis I
	Spring	CEE 413	Water Resources Engineering I
	Fall	CEE 450/L	Unit Operation and Processes in Environmental Engineering
	Spring/Su	CEE 480	Concrete Structure Design
	Spring/Fall	CEE 498	Civil Engineering Capstone
	Spring/ Fall	CEE 499	FE Exam Registration

Elective courses for CEEC Students

Construction

Semester and Year	Course Prefix	Name of the courses
Spring 2025/2026/ 2027/2028	CEE 433	Temporary Structures for Constr. of Infrastructure Projects
	CEE 481	Sustainable Construction for Infrastructure Projects
Fall 2025/2026 2027/2028	CEE 481	Sustainable Construction for Infrastructure Projects
	CEE 472	Construction Estimating for Infrastructure Projects
	CEE 473	Construction Scheduling for Infrastructure Projects

Geotechnical

Semester and Year	Course Prefix	Name of the courses
Spring 2025/2026/ 2027/2028	CEE 410	Highway Construction Materials
Fall 2025/2026/ 2027/2028	CEE 435	Foundations Engineering

Structural

Semester and Year	Course Prefix	Name of the courses
Summer 2025	CEE 480	Concrete Structure Design
	CEE 482	Design of Timber Structure
Fall 2025	CEE 444	Steel Structural Design
Summer 2026	CEE 480	Concrete Structure Design
	CEE 482	Design of Timber Structure
Fall 2026	CEE 444	Steel Structural Design
Summer 2027	CEE 480	Concrete Structure Design
	CEE 482	Design of Timber Structure
Fall 2027	CEE 444	Steel Structural Design
Summer 2028	CEE 480	Concrete Structure Design
	CEE 482	Design of Timber Structure
Fall 2028	CEE 444	Steel Structural Design

Transportation

Semester and Year	Course Prefix	Name of the courses
Spring 2025	CEE 461	Introduction to Railroad Transportation
Fall 2025	CEE 462	Railroad Engineering
	CEE 467	Computer Applications in Transportation Engineering
Spring 2026	CEE 471	Public Transportation Systems
Fall 2026	CEE 463	Traffic Engineering
	CEE 470	High Speed Rail
Spring 2027	CEE 461	Introduction to Railroad Transportation
Fall 2027	CEE 462	Railroad Engineering
	CEE 467	Computer Applications in Transportation Engineering
Spring 2028	CEE 471	Public Transportation Systems
Fall 2028	CEE 463	Traffic Engineering
	CEE 470	High Speed Rail

Water Resources/Environmental

Semester and Year	Course Prefix	Name of the courses
Spring 2025	CEE 454	Solid and Hazardous Wastes Engineering
Summer 2025	CEE 468	GIS Applications in Civil Engineering
Spring 2026	CEE 454	Solid and Hazardous Wastes Engineering
Summer 2026	CEE 468	GIS Applications in Civil Engineering
Fall 2026	CEE 404	Open Channel Flow
	CEE 451	Environmental Water Chemistry and Analysis
Spring 2027	CEE 454	Solid and Hazardous Wastes Engineering
Summer 2027	CEE 468	GIS Applications in Civil Engineering
Fall 2027	CEE 455	Water Treatment Principles and Design
Spring 2028	CEE 449	Data Analytics for Energy Infrastr. Systems Sustainability
	CEE 454	Solid and Hazardous Wastes Engineering
Summer 2028	CEE 468	GIS Applications in Civil Engineering
Fall 2028	CEE 451	Environmental Water Chemistry and Analysis