

Graduate Engineering Program

Core Courses

CIV 520	Advanced Engineering Analysis I	3hrs
CIV 538	Coastal Structures	3hrs
CIV 539	Coastal Engineering Design I	3hrs
CIV 558	Sedimentation and River Engineering	3hrs
CIV 631	Linear Theory of Ocean Waves	3hrs
CIV 636	Spectral Wave Theory	3hrs
CIV 637	Advanced Analysis, Design and Rehabilitation of Breakwaters	3hrs

Elective Courses

CIV 521	Advanced Engineering Analysis II.	3hrs
CIV 530	Advanced Pavement Analysis and Design	3hrs
CIV 531	Traffic Engineering	3hrs
CIV 532	Pavement Materials and Design	3hrs
CIV 533	Evaluation, Maintenance, & Rehabilitation of Public Works Infrastructure	3hrs
CIV 534	Urban Transportation Engineering System Design	3hrs
CIV 540	Advanced Structural Analysis	3hrs
CIV 541	Structural Dynamics	3hrs
CIV 542	Advanced Design of Concrete Structures	3hrs
CIV 550	Engineering Hydrology	3hrs
CIV 551	Advance Fluid Mechanics	3hrs
CIV 552	GIS Applications	3hrs
CIV 553	ENV Methods	3hrs
CIV 554	Water Resources Engineering Planning and Management	3hrs
CIV 556	Groundwater Engineering	3hrs
CIV 557	Computational Fluid Dynamics	3hrs
CIV 559	Environmental Hydraulics	3hrs
CIV 562	Hazardous Waste Engineering	3hrs
CIV 564	Surface Water	3hrs
CIV 632	Tides and Long Waves	3hrs
CIV 633	Airport Planning and Design	3hrs
CIV 640	Finite Element Method	3hrs
CIV 650	Small Watershed Hydrology	3hrs
CIV 652	Hydraulic Engineering Design	3hrs
CIV 659	Advanced Topics in Water Resources Engineering	Variable 1-4hrs
CIV 670	Rock Mechanics	3hrs
CIV 695	Scientific Writing Seminar	1hr
CIV 696	Seminar	1hr
CIV 697	Internship	Variable 1-3hrs
CIV 698	Independent Study	Variable 1-4hrs
CIV 699	Thesis Research	Variable 1-6hrs