

Department of Civil and Environmental, Graduate Course Offerings



Course	Number	2010	2011	2011	2011	2012	2012	2012	2013	2013	Instructor
		Fall	Spr	Sum	Fall	Spr	Sum	Fall	Spr	Sum	
Structural Engineering											
Prestress Concrete	CES 5715C		*			*			*		Sen
Advanced Concrete Design	CES 6706	*			*			*			Sen
Design of Masonry Structures	CGN 6933		*						*		Sen
Rehab and Restoration of Structures	CGN 6933					*					Sen
Design Structures to Resist Natural Hazards	CES 6586	*			*			*			Stroh
Advanced Steel Design	CES 6609				*						Adjunct
Structural Dynamics	CES 5209	*						*			Mullins
Experimental Stress Analysis	CES 6103				*						Mullins
Design of Concrete Bridges	CES 6326		*						*		Zendegui
Advanced Structural Mechanics	CGN 6933					*					Danon
Geotechnical Engineering											
Foundation Engineering	CEG 5115								*		Adjunct
Soil Dynamics	CEG 6065		*						*		Gunaratne
Seepage and Subsurface Drainage	CEG 6415					*					Gunaratne
Engineering Mechanics											
Applied Finite Element Method	CGN 6933				*						Carpenter
Continuum Mechanics	CGN 6933					*					Simkins
Advanced Computational Fluid Mechanics	CGN 6933	*						*			Tejada
Advanced Computational Solid Mechanics	CGN 6933		*						*		Simkins
Materials											
Electrochemical Diagnostic Techniques	CGN 6720	*						*			Sagues
Structural Life Prediction	CGN 6933				*						Sagues
Corrosion Control	EMA 5326		*						*		Sagues
Material Infrastructure Durability	CGN 6933					*					Zayed
Environmental Engineering											
Advanced Physical / Chemical Processes	ENV 6519		C			C			C		Cunningham
Air Quality for Env & Trans Engineers	CGN 6933		E						E		Ergas
Environmental Engineering Design	ENV 6564		E			E			E		Ergas
Biological Principles of Environmental Engineering	ENV 6511	E			E			E			Ergas
Physical & Chemical Principles in Envir Eng	ENV 6002	JZ			JZ			JZ			Jane Zhang
Green Engineering for Sustainability	CGN 6933		JZ			JZ			JZ		Jane Zhang
Sustainable Development Engineering	CGN 6933		M			M			M		Mihelcic
Air Pollution	ENV 6105	Stu			Stu			Stu			Stuart
Environmental Modeling	CGN 6933					Stu					Stuart
Aquatic Chemistry	ENV 6666		T			T			T		Trotz
Environmental Inter. Res. Colloquium	CGN 6933	Stu			Stu			Stu			Stuart
Environmental Biotechnology	ENV 6667		Y			Y			Y		Yeh
Green Infrastructure for Sustainable Communities	CGN 6933	Y			Y			Y			Yeh
EWRE seminar	CGN 6933	C	Y		T	R		JZ	Stu		Staff
Water Resource Engineering											
Coastal and Estuary Modeling	CWR 6534				*						Ross
Wave and Beach Protection	CWR 6239					*					Ross
Coastal Waves and Structures	CWR 6820		*						*		Ross
Hydrologic Models	CWR 6535	*						*			Ross
Advanced Hydrologic Models	CWR 6538		*						*		Ross
Urban Hydrology	CWR 6305	*						*			Nachabe
Free Surface Flow	CWR 6235				*						Nachabe
Vadose Zone Hydrology	CGN 6933				*						Nachabe
Groundwater Hydraulics	CGN 6933	*						*			Nachabe
Transportation Engineering											
Advanced Geometric Design of Highways	CGN 6933						*				Behzadi
Transportation and Society	TTE 4006		CUTR	CUTR		CUTR	CUTR		CUTR	CUTR	CUTR
Access Management	CGN 6933					CUTR					CUTR
GIS in Transportation	CGN 6933					CUTR					CUTR Lee
Public Transportation	TTE 6651		CUTR						CUTR		CUTR Polzin
Transportation and Land Use	TTE 6655					CUTR					CUTR Polzin
Pavement Design	TTE 6835	*						*			Gunartne
Intelligent Transportation Systems	TTE 6270				*						Lu
Transportation Safety	TTE 6315		*			*			*		Lu
Computer Applications in Traffic Engineering	CGN 6933		*						*		Lu
Traffic Flow Theory	CGN 6933	*						*			Lu
Traffic Systems Engineering	TTE 5205	CUTR			*			CUTR			Lu/CUTR
Discrete Choice Models of Behavior	TTE 6505		P						P		Pinjari
Travel Demand Modeling	TTE 6507	P			P			P			Pinjari
Transportation Data Collection and Analysis	CGN 6933						P				Pinjari
Asphalt and Asphalt Mixes	CGN 6933						Q Lu				Qing Lu
Infrastructure Systems Management	CGN 6933	Q Lu			Q Lu			Q Lu			Qing Lu
Pavement Management Systems	TTE 6837		Q Lu						Q Lu		Qing Lu
Graduate Transportation Seminar	TTE 6930	YZ	P		YZ	P		YZ	P		Staff
Trans Planning and Economics	TTE 5501	Adj			YZ			YZ			Yu Zhang
Transportation Network Analysis	CGN 6933		YZ						YZ		Yu Zhang
Air Transportation	TTE 5520					YZ					Yu Zhang
Airport Management	CEG 6933			*						*	Michael Audino