

\*Starred courses are not under the CEE department.

**THIS SCHEDULE HAS NOT BEEN FINALIZED AND SHOULD BE READ TENTATIVELY**

Fall 2023							
Subject	Category	Title	Units	Instructor	Prerequisites	GE Credit	GE Credit
<b>Lower Division</b>							
ECI 3		Civil & Env Infrastructure & Society	4	C. Cappa	MAT 21A (MBTC)	SE, SS	
ECI 40	Elective	Intro to Environmental Engineering	4	C. Bronner	CHE 2B	SE, SS	
ENG 3*		Intro to Engineering Design	4	J. Mullin	Completion of Entry Level Writing Requirement	SE, SS	OL
ENG 6*		Engineering Problem Solving	4	M. Radulaski	MAT 21A with C- or better; MAT 21B with C- or better (MBTC)	SE	QL
ENG 35		Statics	4	B. Jeremic	MAT 21D (MBTC), PHY 9A all with C- or better	SE	
<b>Upper Division</b>							
ECI 100		Fluid Mechanics for Civil/Env Eng.	4	B. Younis	ENG 35, MAT 22B, PHY 9B all with C- or better	SE	
ECI 101	Elective	Selected Topics in Civil Engineering:	4	C. Bronner	Upper division standing in Civil & Environmental Engineering (only for incoming	SE	
ENG 102*		Dynamics	4		ENG 35, MAT 22B both with C- or better	SE	VL
ENG 103*		Fluid Mechanics	4	C. Badrya	ENG 35, MAT 22B, PHY 9B all with C- or better	SE	
ENG 104		Mechanics of Materials	4	N. Sukumar	ENG 35, MAT 22B both with C- or better	SE	QL
ENG 105*		Thermodynamics	4	S. Nazari	MAT 22B, PHY 9B all with C- or better	SE	VL
ECI 115	Math Elective	Computer Methods in Civil Eng	4	J. Herman	ENG 6 or ECS 30 or ECS 32A w/ C- or better; MAT 22B C- or better	SE	
MAT 118A*	Math Elective	Partial Diff. Equations: Elementary Methods	4	J. Biello	MAT 21D; MAT 22A; MAT 22B		
ECI 130	Breadth	Structural Analysis	4	S. Kunnath	ENG 104 w/ C- or better; MAT 22A		
ECI 133	Depth	Civil Engineering Materials	4	S. Miller	CHE 002A C- or better; ENG 035 C- or better	SE	
ECI 134	Depth	Struct. Loads: Calculation & Modeling	4	M. Barbato	ECI 130 C- or better		
ECI 137	Elective	Construction Prin. & Proj. Mgmt.	4	J. Harvey	Upper division standing in Engineering; ENG 106 recommended	SE, SS	QL
ECI 140A	Depth	Env. Analysis of Aqueous Systems	4	J. Li??	CHE 2B w/ C- or better; ECI 40 (MBTC)	SE	
ECI 141-141L	Breadth	Engineering Hydraulics & Lab	3/1	A. Forrest	ECI 100 or ENG 103 w/ C- or better	SE	
ECI 142	Depth	Engineering Hydrology	4	M. Kavvas	ECI 141 (MBTC)	SE	QL
ECI 165	Breadth	Transportation Policy	4	G. Tal		SE, SS	
ECI 175	Depth	Geotechnical Earthquake Engineering	4	K. Ziotopoulou	ECI 171 w/ C- or better	SE	
ECI 189C	Elective	Sustainability Engineering and Community Eng	3	S. Miller & A. Ki	Upper division standing; ECI 123 and ECI 133 recommended		
ECI 189G	Breadth/Depth	Transportation Infrastructure Design	4	K. Watkins	PHY 9A C- or better; MAT 21B C- or better		



Spring 2024							
Subject		Title	Units	Instructor	Prerequisites	GE Credit	GE Credit
<b>Lower Division</b>							
ENG 3*		Intro to Engineering Design	4		Completion of Entry Level Writing Requirement	SE, SS	QL
ENG 6*		Engineering Problem Solving	4		MAT 21A with C- or better; MAT 21B with C- or better (MBTC)	SE	QL
ENG 35		Statics	4	M. Rashid	MAT 21D (MBTC), PHY 9A all with C- or better	SE	
<b>Upper Division</b>							
ENG 102*		Dynamics	4		ENG 35, MAT 22B both with C- or better	SE	
ENG 103*		Fluid Mechanics	4		ENG 35, MAT 22B, PHY 9B all with C- or better	SE	
ENG 104		Mechanics of Materials	4	B. Jeremic	ENG 35, MAT 22B both with C- or better	SE	
ENG 104L		Mechanics of Materials Lab	1	S. Miller	ENG 104	SE	
ENG 105*		Thermodynamics	4		MAT 22B, PHY 9B all with C- or better	SE	
ECI 114		Probabilistic Sys. Analy. For Civ. Engineers	4	M. Jaller	MAT 21C w/ C- or better	SE	QL
ECI 123	Elective/Breadth	Urban Systems & Sustainability	4		Upper division standing	SE, SS	ACGH, DD, WE, SL
ECI 135	Depth	Struct Design: Concrete Elements	4	R. Chai	ECI 130 C- or better; Restricted to ECIV majors	SE	QL
ECI 138	Depth	Earthquake Loads on Structures	4	J. Bolander	ECI 130 C- or better or ECI 131 C- or better	SE	
ECI 140CN (ECI 140D)	Depth	Water & Wastewater Treatment Sys. Design	4	T. Young	ECI 140B, ECI 140C both w/ C- or better; ECI 40	SE	
ECI 141-141L	Breadth/Depth	Engineering Hydraulics & Lab	3/1	F. Bombardelli	ECI 100 or ENG 103 w/ C- or better	SE	
ECI 145	Depth	Hydraulic Structure Design	4	B. Younis	ECI 141 w/ C- or better	SE	
ECI 146	Depth	Water Resources Simulation	4	B. Younis	ECI 141 w/ C- or better	SE	
ECI 153	Depth/Math Elective	Deterministic Optimization & Design	4	Y. Fan	MAT 21C, 22A, programming course	SE	QL, SL
ECI 171-171L	Breadth	Soil Mechanics & Lab	4/1	TBD	ECI 100 or ENG 103 (MBTC); ENG 104 w/ C- or better; <b>171L concurrently</b>	SE	
ECI 173	Depth	Foundation Design	4	A. Martinez	ECI 171	SE	
ECI 179	Depth	Pavement Management, Evaluation, &	4	S. Nassiri	ECI 171; ECI 178	SE	
ECI 189G	Elective	Electric Vehicles	4	A. Jenn			
ECI 193B		ECI Senior Design	4	C. Bronner F. Loge A. Forrest K. Watkins	ECI 193A	SE	OL, VL