

# B.S. In Civil Engineering

SPECIALIZATIONS: Environmental Engineering  
 Hydrology and Water Resources  
 Structural Engineering and Mechanics  
 Urban Infrastructure reliability and management

## Sample Degree Plan

*This is one example of many possible schedules.*

*Consult a divisional or departmental advisor to customize your degree plan*

### Typical Plan for Urban Infrastructure, reliability, and management

(Samples for additional focus areas can be found at <http://ceve.rice.edu/undergrad/>)

FALL				SPRING			
<b>FRESHMAN 17 credits</b>				<b>FRESHMAN 17 credits</b>			
Gen.	MATH 101	Single Variable Calculus I	3	Gen.	MATH 102	Single Variable Calculus II	3
Gen.	PHYS 101	Mechanics with Lab	3	Gen.	PHYS 102	Elect. and Mag. w/ Lab	4
Gen.	CHEM 121	General Chemistry	3	Gen.	CHEM 122	General Chemistry	3
Gen.	CHEM 123	General Chemistry Lab	1	Gen.	CHEM 124	General Chemistry Lab	1
Core	CEVE 101	Fundamentals of CEE	3	D1		Distribution Elective	3
D1	Writing Rec	Writing Seminar-Dist.	3	D2		Distribution Elective	3
LPAP			1				
<b>SOPHOMORE 18 credits</b>				<b>SOPHOMORE 16 credits</b>			
Gen.	MATH 211	Ordinary Differential Eq.	3	Gen.	MATH 212	Multivariable Calculus	3
Gen.	CAAM 210	Intro. To Eng. Comp	2	Gen.	BIOC 201	Or ESCI 321 or ESCI 340 or EBIO 325	3
Gen.	CAAM 211	Intro. To Eng. Comp lab	1	Core	CEVE 311	Mechanics of Solids	3
Core	CEVE 310	Principals of Enviro. Eng	3	Core	CEVE 312	Strength of Materials Lab	1
Core	CEVE 211	Engineering Mechanics	3	F3	CEVE 304	Structural Analysis	3
F1	CEVE 302	Sustainable Design	3	Gen.	STAT 312	Probability and Statistics	3
D1		Distribution Elective	3				
<b>JUNIOR 16 credits</b>				<b>JUNIOR 18 credits</b>			
Core	CEVE 401	Enviro. Chem & Lab	4	Gen.	CAAM 335	Matrix Analysis	3
Core	CEVE 363	Fluid Mechanics	3	F1	CEVE 307	Energy and the Environment	3
F2	CEVE 420	Environmental Restoration	3	F2	CEVE 412	Hydrology and Watersheds	3
F3	CEVE 427	Matrix Methods in Struct.	3	F4	CEVE 313	Risk & Uncertainty in Urban Sys.	3
D1		Distribution Elective	3	D2		Distribution Elective	3
				D2		Distribution Elective	3
<b>SENIOR 16 credits</b>				<b>SENIOR 15 credits</b>			
Core	CEVE 481	Intro. Senior Design	1	Core	CEVE 480	Senior Design	3
F4	CEVE 479	Eng. Project Management	3	Rec Elec.	CAAM 471	Intro to Linear Integer	3
F4	CEVE 470	Principles of Soil Mech.	3	Elec		Free Elective	3
Rec Elec.	CEVE 460	Bridge Engineering	3	Elec.		Free Elective	3
Rec Elec.	CEVE 492	Analysis & Modeling of Urb Sys.	3	F4	CEVE 452	Urban Transport Sys	3
D2		Distribution Elective	3				