



B.S. in Civil Engineering

2020-21

This sample paradigm shows a normal 4 year progression towards a degree in civil engineering. Some of the courses should be taken in this order due to prerequisite structures, while others can be switched where applicable.

Semester I			Semester II			
Freshman Year	CE 110	Intro to Civil Engineering	2 credits	CE 113	Civil Engineering Analysis	2 credits
	CE 111	Civil Engineering Graphics	3 credits	ENG 112	English Composition II	3 credits
	ENG 111	English Composition I	3 credits	MATH 132	Calculus II	3 credits
	MATH 131	Calculus I	3 credits	PHYS 150 & Lab	Physics I & Lab	4 credits
	BIOL 105	Environmental Biology	3 credits	CHEM 115 & Lab	General Chemistry & Lab	4 credits
	CBU 101	Orientation to CBU	0 credits		Total	16 credits
	—	General Education	3 credits			
		Total	17 credits			

Semester I			Semester II			
Sophomore Year	CE 225 & Lab	Geomatics & Lab	4 credits	CE 212	Structural Analysis	3 credits
	CE 201	Statics	3 credits	CE 251	Construction Materials	3 credits
	CE 210	Mechanics of Materials	3 credits	CE 299 & Lab	Hydraulics & Lab	4 credits
	MATH 231	Differential Equations	3 credits	MATH 232	Calculus III	3 credits
	PHYS 251 & Lab	Physics 2 & Lab	4 credits	ME 202	Dynamics	3 credits
		Total	17 credits		Total	16 credits

Semester I			Semester II			
Junior Year	CE 310	Design of Steel Structures	3 credits	CE 311	Design of Reinforced Concrete	3 credits
	CE 313	Hydrology	3 credits	CE 329	Environmental Engineering I	2 credits
	CE 322 & Lab	Soil Mechanics & Lab	4 credits	CE 318	Highway Engineering	3 credits
	—	CE Major Elective	3 credits	CE 340	Design of Foundations	3 credits
	—	General Education	3 credits	MATH 308	Statistics	3 credits
		Total	16 credits	—	General Education	3 credits
					Total	17 credits

Semester I			Semester II			
Senior Year	CE 400	The Compleat Engineer	3 credits	CE 351	Fund of Engineering Economy	2 credits
	CE 429	Environmental Engineering II	2 credits	CE 432	Senior Design Project II	2 credits
	CE 431	Senior Design Project I	2 credits	—	CE Major Elective	3 credits
	CE 489	Fundamentals of CE Exam	0 credits	—	General Education	3 credits
	—	CE Major Elective	3 credits	—	General Education	3 credits
	—	General Education	3 credits	—	Program Option	3 credits
	—	MATH Elective	3 credits		Total	16 credits
		Total	16 credits			

Total credits required for bachelor degree completion: **131**