

U.A. WHITAKER SCHOOL OF ENGINEERING
BACHELOR OF SCIENCE IN CIVIL ENGINEERING (B.S.C.E.)
128 Credits

Freshman Year

Semester 1			Semester 2		
Course Number	Course Title	CR	Course Number	Course Title	CR
EGN 1006L	Intro to Engineering Prof.	1	EGN 1041C	Problem Solving & Design Engrs	2
ENC 1101	Composition I (W)	3	PHY 2048C	General Physics I	4
	Humanities*	3	MAC 2312	Calculus II	4
MAC 2311	Calculus I	4	ENC 1102	Composition II (W)	3
BSC 1010C	General Biology w/lab I	4	HUM 2510	Understanding Visual & Performing Arts	3
	Total	15		Total	16

Sophomore Year

Semester 3			Semester 4		
Course Number	Course Title	CR	Course Number	Course Title	CR
EGM 3420C	Engineering Mechanics	4	EGN 3331C	Mechanics of Materials	3
MAC 2313	Calculus III	4	EGN 2111C	Engineering Computer Graphics	2
CHM 1045C	Gen Chemistry w/Lab I	4	STA 2037	Statistics with Calculus	3
PHY 2049C	General Physics II	4	MAP 2302	Diff Equations	3
	Total	16	CHM 1046C	Gen Chemistry w/Lab II	4
				Total	15

Summer term

	Social Science (recommend ECO 2023)	3
	Social Science*	3
	Humanities*	3
	Total	9

*One of these courses must be a writing course to satisfy the Gordon Rule (W).

NOTE: Students must earn at least 9 semester hours by attending one or more summer sessions at a State University System member institution.

Junior Year

Semester 5			Semester 6		
Course Number	Course Title	CR	Course Number	Course Title	CR
EGN 3833C	Engineering Service Learning	2	EGN 3641C	Engineering Entrepreneurship	3
CWR 3201C	Engineering Fluid Mechanics	3	CWR 3202C	Hydraulics	3
TTE 3002C	Transportation Engineering	3	ENV 3006C	Fundamentals of Environmental Engineering	3
CES 3100C	Mechanics of Engineering Structures	3	CEG 3011C	Soil Mechanics	3
CCE 3101C	Civil Engineering Materials	3	CGN 3323C	Surveying and Geomatics	3
	Total	14		Total	15

Senior Year

Semester 7			Semester 8		
Course Number	Course Title	CR	Course Number	Course Title	CR
EGN 4410L	Engineering Senior Design I	1	EGN 4411C	Engineering Senior Design II	3
CEG 4012C	Geotechnical Engineering	3	ENV 4417C	Water & Wastewater Treatment	3
CCE 4031C	Project Planning and Regulations	3		Technical Elective #2**	3
CES 4702C	Reinforced Concrete Design	3	IDS 3920	University Colloquium (W)	3
	Technical Elective #1**	3			
CWR 4540C	Water Resources Design	3			
	Total	16		Total	12

Total Hours = 128

Engineering common core - engineering courses
Engineering courses unique to B. S. in Civil Engineering
Engineering courses shared by Civil and Environmental Engineering

** The Technical Electives must be approved by the Academic Advisor for engineering in consultation with the faculty.