

U.A. WHITAKER COLLEGE OF ENGINEERING
BACHELOR OF SCIENCE IN ENVIRONMENTAL ENGINEERING (B.S.Env.E.)
Total 128 Credits

Freshman Year					
Semester 1 (Fall Term)			Semester 2 (Spring Term)		
Course	Course Title	CR	Course	Course Title	CR
EGS 1006L	Intro to Engineering Profession	1	EGN 1041C	Computational Tools for Eng	2
ENC 1101	Composition I	3	PHY 2048C	General Physics I w/lab	4
XXX XXXX	State Core Humanities*	3	MAC 2312	Calculus II	4
MAC 2311	Calculus I	4	ENC 1102	Composition II	3
CHM 1045C	General Chemistry I w/lab	4	XXX XXXX	Social Science* (recommend ECO 2013 or ECO 2023)	3
	Total	15		Total	16

Summer Term			*Special Notes: Students must earn at least 9 semester hours by attending one or more summer sessions Students should be sure one of their social science or humanities include 1 course that is designated with an attribute for College Level Writing Skills (CLWS), 2 courses that are designated with an attribute for Intercultural Knowledge (INKN), and 1 course that satisfies the Civic Literacy requirement. Please be aware that 1 course may satisfy multiple attributes. Example: AML 2010 = Humanities, College Level Writing, and Intercultural Knowledge (GEHM, CLWS, INKN)		
Course	Course Title	CR			
XXX XXXX	State Core Social Science* (AMH 2020 or POS 2041)	3			
XXX XXXX	Humanities*	3			
CHM 1046C	General Chemistry II w/lab	4			
	Total	10			

Sophomore Year					
Semester 3 (Fall Term)			Semester 4 (Spring Term)		
Course	Course Title	CR	Course	Course Title	CR
EGM 3420C	Engineering Mechanics	4	EGN 3343C	Thermodynamics	3
MAC 2313	Calculus III	4	ENV 3006C	Fundamentals of Environmental Engineering	3
XXX XXXX	Choose Geology (3-4)	3	XXX XXXX	Humanities*	3
PHY 2049C	General Physics II w/lab	4	MAP 2302	Differential Equations	3
	Total	15	STA 2023	Statistics w/Calculus OR Statistical Methods	3
				Total	15

Junior Year					
Semester 5 (Fall Term)			Semester 6 (Spring Term)		
Course	Course Title	CR	Course	Course Title	CR
EES 3204C	Environmental Chemistry for Engineers	3	EGN 3641C	Engineering Entrepreneurship	3
ENV 4351	Solid Waste Management	3	ENV 3502C	Water Treatment Engineering	3
CWR 3201C	Engineering Fluid Mechanics	3	ENV 4330C	Hazardous Waste Remediation	3
CGN 3323C	Surveying and Geomatics	3	CWR 3202C	Hydrology and Hydraulics	3
EES 4102C	Wastewater Microbiology	3	XXX XXXX	Unrestricted Elective (2-3)	3
	Total	15		Total	15

Senior Year					
Semester 7 (Fall Term)			Semester 8 (Spring Term)		
Course	Course Title	CR	Course	Course Title	CR
ENV 4101C	Atmospheric Pollution	3	ENV 4891	Environmental Engineering Senior Design	3
ENV 4509C	Wastewater Engineering	3	ENV 4612C	Sustainability in Engineering	3
CWR 4540C	Water Resource Design	3	IDS 3920	University Colloquium	3
CCE 4031C	Project Planning and Regulations	3	XXX XXXX	Restricted Elective (Approved by Mentor / Advisor)	3
XXX XXXX	Unrestricted Elective	3		Total	12
	Total	15			

Engineering Common Core - Engineering Courses	10
Engineering Courses unique to B.S. in Environmental Engineering	27
Engineering Courses shared by Civil and Environmental Engineering	18

Prerequisites for Coursework (all prerequisites require a minimum grade of C)			
Course	Prerequisites	Course	Prerequisites
CCE 4031C	EGN 3641C	ENV 4101C	ENV 3006C & CWR 3201C
CGN 3323C	EGM 3420C	ENV 4330C	ENV 3006C, CWR 3201C, EGN 3343C & EES 3204C
CWR 3201C	MAP 2302, EGM 3420C & PHY 2049C	ENV 4351	ENV 3006C
CWR 3202C	CWR 3201C & (STA 2037 or STA 2023)	ENV 4509C	ENV 3006C & CWR 3202C
CWR 4540C	CWR 3202C	ENV 4612C	ENV 3006C & CCE 4031C
EES 3204C	PHY 2049C, CHM 1046C, ENV 3006C & ENG 1041C		
EES 4102C	ENV 3006C	ENV 4891	EES 3204C, ENV 3502C, ENV 4101C, ENV 4330C, ENV 4351, ENV 4509C, CCE 4031C & CWR 4540C
EGN 3641C	EGN 3343C	IDS 3920	Sophomore Standing
ENV 3502C	EES 3204C		

Choose Geology (all prerequisites require a minimum grade of C)				
Course	Course Title	GLY	Prerequisites	CR
GLY 1000	Physical Geology	Geology	None	4
GLY 2030	Environmental Geology	Geology	None	3
GLY 4074C	Meteorology & Climatology	Geology	None	3