

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

**128 Credits Total**

Freshman Year						
Semester 1 (Fall Term)	Course	Course Title	CR	Prerequisites*	Offered	Milestone
	EGS 1006L	Intro to Engineering Profession	1	MAC 1147	Fa, Sp	
	ENC 1101	Composition I	3		Fa, Sp,Su	
	XXX XXXX	State Core Humanities*	3		Fa, Sp,Su	
	MAC 2311	Calculus I	4	MAC 1147 or MAC 2157	Fa, Sp,Su	
	CHM 1045 & 1045L	General Chemistry I w/ Lab	4		Fa, Sp,Su	
	<b>Total</b>	<b>15</b>				

Semester 2 (Spring Term)	Course	Course Title	CR	Prerequisites*	Offered	Milestone
	EGN 1041C	Computational Tools for Engineering	2	MAC 2311 and EGS 1006L	Fa, Sp	
	PHY 2048 & 2048L	General Physics I w/lab	4	MAC 2311	Fa, Sp,Su	
	MAC 2312	Calculus II	4	MAC 2311	Fa, Sp,Su	
	ENC 1102	Composition II	3	ENC 1101	Fa, Sp,Su	
	XXX XXXX	Social Science* (recommend ECO 2013 or ECO 2023)	3		Fa, Sp,Su	
	<b>Total</b>	<b>16</b>				

Summer	Course	Course Title	CR	Prerequisites*	Offered	Milestone
	XXX XXXX	State Core Social Science* (recommend AMH 2020 or POS 2041)	3		Fa, Sp,Su	
	CHM 1046 & 1046L	General Chemistry II w/ Lab	4	CHM 1045 AND CHM 1045L	Fa, Sp,Su	
	XXX XXXX	Humanities*	3		Fa, Sp,Su	
	<b>Total</b>	<b>10</b>				

Sophomore Year						
Semester 3 (Fall Term)	Course	Course Title	CR	Prerequisites*	Offered	Milestone
	EGM 3420C	Engineering Mechanics	4	PHY 2048 & 2048L	Fa, Sp	
	MAC 2313	Calculus III	4	MAC 2312	Fa, Sp,Su	
	GYL 1010C or 2030C	Physical Geology (4) OR Environmental Geology (3)	3		Fa, Sp,Su	
	PHY 2049 & 2049L	General Physics II w/lab	4	MAC 2312 and PHY 2048 & 2048L	Fa, Sp,Su	
	<b>Total</b>	<b>15</b>				

Semester 4 (Spring Term)	Course	Course Title	CR	Prerequisites*	Offered	Milestone
	EGN 3343C	Thermodynamics	3	CHM 1045 & 1045L, PHY 2048 & 2048L	Sp	
	STA 2023	Statistics w/Calculus OR Statistical Methods	3		Fa, Sp	
	ENV 3006C	Fundamentals of Environmental Engineering	3	PHY 2048 & 2048L, MAC 2312, and CHM 1045 & 1045L	Sp, Su	
	MAP 2302	Differential Equations	3	MAC 2312	Fa, Sp,Su	
	XXX XXX	Humanities*	3		Fa, Sp,Su	
	<b>Total</b>	<b>15</b>				

**\*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)

\*Prerequisites for Coursework (all prerequisites require a minimum grade of C)  
\*\* The Technical Electives must be approved by the Environmental Engineering Department.

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Junior Year						
	Course	Course Title	CR	Prerequisites*	Offered	Milestone
Semester 5 (Fall Term)	EES 3204C	Environmental Chemistry for Engineers	3	CHM 1045 and CHM 1045L (or CHEM 1045C), ENV 3006C, EGN 1041C	Fa	Complete EGM 3420C with a minimum grade of "C".
	ENV 4341C	Solid and Hazardous Waste Engineering	3	ENV 3006C	Fa	
	CWR 3201C	Engineering Fluid Mechanics	3	MAP 2302, EGM 3420C, PHY 2049 & 2049L	Fa	
	EGN 2111C	Engineering Computer Graphics	3	MAC 2311	Fa, Sp	
	XXX XXX	Unrestricted Elective (2-3)	3		Fa, Sp,Su	
		<b>Total</b>		<b>15</b>		

	Course	Course Title	CR	Prerequisites*	Offered	Milestone
Semester 6 (Spring Term)	EGN 3441C	Data Sci & Eng Sys Analysis	3	(STA 2023 or STA 2037), EGN 1041, and either EGM 3420C or ENV 3006C	Fa, Sp	Complete EES 3204C with a minimum grade of "C".
	ENV 3502C	Water Treatment Engineering	3	EES 3204C	Sp	
	CGN 4321	GIS App in Civil and Environmental Engineering	3	EGN 2111C	Sp	
	EES 4102C	Wastewater Microbiology	3	ENV 3006C	Sp	
	CWR 3202C	Hydrology and Hydraulics	3	CWR 3201C AND (STA 2037 OR STA 2023)	Sp	
		<b>Total</b>		<b>15</b>		

Senior Year						
	Course	Course Title	CR	Prerequisites	Offered	Milestone
Semester 7 (Fall Term)	ENV 4101C	Atmospheric Pollution	3	ENV 3006C AND CWR 3201C	Fa	Make a graduation check appointment with advising. Apply for graduation by the deadline.
	ENV 4509C	Wastewater Engineering	3	ENV 3006C AND CWR 3202C	Fa	
	XXX XXXX	Unrestricted Elective	3		Fa, Sp,Su	
	CCE 4031C	Project Planning and Regulations	3	EGN 2111C	Fa	
	CWR 4540C	Water Resource Design	3	CWR 3202C	Fa	
		<b>Total</b>		<b>15</b>		

	Course	Course Title	CR	Prerequisites	Offered	Milestone
Semester 8 (Spring Term)	ENV 4891	Environmental Engineering Senior Design	3	EES 3204C, ENV 3502C, ENV 4509C, ENV 4341C, CWR 4540C, CCE4031, ENV 4101C	Sp	
	ENV 4612C	Sustainability in Engineering	3	ENV 3006C	Sp	
	IDS 3920	University Colloquium	3		Fa, Sp,Su	
	XXX XXXX	Technical Elective (Restricted and Approved by Mentor / Advisor)	3		Fa, Sp,Su	
		<b>Total</b>		<b>12</b>		

Engineering Common Core - Engineering Courses	<b>10</b>
Engineering Courses unique	<b>27</b>
Engineering Courses shared	<b>18</b>

General Education & Other Required Courses	<b>73</b>
<b>Total Engineering Credits</b>	<b>55</b>
<b>Total Degree Credits</b>	<b>128</b>

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