

BS IN ENVIRONMENTAL ENGINEERING

Code	Title	Hours
Arts/Humanities/Social Sciences Core - 5 courses		
CHEE 1000	Orientation And Computing For Chemical and Environmental Engineers	3
CHEE 2010	Mass And Energy Balances	3
CHEE 2230	Chemical Engineering Thermodynamics I	3
CHEM 1230	General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
CHEM 1240	General Chemistry II	0,4
CHEM 1290	General Chemistry Lab II	1
CIVE 1110	Computer Aided Drafting for Civil Engineers	1
CIVE 1150	Engineering Mechanics: Statics	0-3
CIVE 1160	Engineering Mechanics: Strength Of Materials	3
CIVE 1170	Fluid Mechanics For Civil Engineers	3
CIVE 2000	Professional Development	1
CIVE 2550	Sustainability Problem Solving	3
CIVE 3120	Civil Engineering Systems Analysis	3
CIVE 3210	Soil Mechanics	3
CIVE 3940	Co-Op Experience (3 co-ops)	1
CIVE 3610	Water Supply And Treatment	3
CIVE 3620	Air Pollution Engineering I	3
CIVE 3630	Wastewater Engineering	3
CIVE 4610	Hydrology And Water Resources	3
CIVE 4680	Environmental Law	3
CIVE 4750	Senior Design Projects	3
ECON 3240	Environmental Economics	3
EEES Elective		
EEES 2010	Introduction To Environmental Studies	3
EEES 3050	General Ecology	3
EEES 4450	Hazardous Waste Management	3
ENVE Technical Elective – 4 courses		
ENGL 1110	College Composition I	3
ENGL 2950	Science And Technical Report Writing	3
MATH 1850	Single Variable Calculus I	4
MATH 1860	Single Variable Calculus II	4
MATH 2850	Elementary Multivariable Calculus	4
MATH 2860	Elementary Differential Equations	3
MIME 4000	Engineering Statistics I	3
PHYS 2130	Physics For Science And Engineering Majors I	5

Below is a sample plan of study. Consult your degree audit for your program requirements.

First Term	Hours
CHEM 1230 General Chemistry I	4
CHEM 1280 General Chemistry Lab I	1

MATH 1850	Single Variable Calculus I	4
CHEE 1000	Orientation And Computing For Chemical and Environmental Engineers	3
EEES 2010	Introduction To Environmental Studies	3
Hours		15

Second Term		
CHEM 1240	General Chemistry II	4
CHEM 1290	General Chemistry Lab II	1
MATH 1860	Single Variable Calculus II	4
CHEE 2010	Mass And Energy Balances	3
CIVE 2000	Professional Development	1
EEES Elective		3
CIVE 1110	Computer Aided Drafting for Civil Engineers	1
Hours		17

Third Term		
PHYS 2130	Physics For Science And Engineering Majors I	5
MATH 2850	Elementary Multivariable Calculus	4
CHEE 2230	Chemical Engineering Thermodynamics I	3
ENGL 1110	College Composition I	3
CIVE 2550	Sustainability Problem Solving	3
Hours		18

Fourth Term		
CIVE 3940	Co-Op Experience	1
Hours		1

Fifth Term		
Arts/Humanities/Social Science Core		3
Arts/Humanities/Social Science Core		3
MATH 2860	Elementary Differential Equations	3
CIVE 1150	Engineering Mechanics: Statics	3
MIME 4000	Engineering Statistics I	3
Hours		15

Sixth Term		
CIVE 3940	Co-Op Experience	1
Hours		1

Seventh Term		
CIVE 1170	Fluid Mechanics For Civil Engineers	3
EEES 3050	General Ecology	3
ENGL 2950	Science And Technical Report Writing	3
CIVE 1160	Engineering Mechanics: Strength Of Materials	3
CIVE 3120	Civil Engineering Systems Analysis	3
Hours		15

Eighth Term		
CIVE 3940	Co-Op Experience	1
Hours		1

Ninth Term		
CIVE 4680	Environmental Law	3
CIVE 3210	Soil Mechanics	3
CIVE 3610	Water Supply And Treatment	3

CIVE 4610	Hydrology And Water Resources	3
EEES 4450	Hazardous Waste Management	3
Hours		15
Tenth Term		
CIVE 3620	Air Pollution Engineering I	3
Hours		3
Eleventh Term		
ECON 3240	Environmental Economics	3
ENVE Technical Elective		3
Arts/Humanities/Social Science Core		3
Arts/Humanities/Social Science Core		3
Arts/Humanities/Social Science Core		3
Hours		15
Twelfth Term		
ENVE Technical Elective		3
ENVE Technical Elective		3
ENVE Technical Elective		3
CIVE 3630	Wastewater Engineering	3
CIVE 4750	Senior Design Projects	3
Hours		15
Total Hours		131

Per ABET accreditation requirements, engineering programs must demonstrate that their students attain the following outcomes:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics. (Analysis)
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors. (Synthesis)
3. An ability to communicate effectively with a range of audiences. (Application)
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts. (Application)
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives. (Application)
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions (Analysis)
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies. (Application)

The educational category based on Bloom's taxonomy are given in parentheses for each outcome.