

# Environmental Engineering, B.S.

Accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org/>

Course	Title	Semester Credit Hours
<b>Freshman Year</b>		
<b>Semester 1</b>		
CHEM 1311 & CHEM 1111	Gen Inorganic Chemistry I and Gen Inorganic Chem Lab I	4
ENGL 1301	Rhetoric and Composition	3
HIST 1301	American History to 1877	3
MATH 2413	Calculus I	4
GEEN 1201	Engineering as a Career <sup>1</sup>	2
<b>Semester Credit Hours</b>		<b>16</b>
<b>Semester 2</b>		
AEEN 1310 or MEEN 1310	Computer Graphics or Engineering Graphics I	3
ENGL 1302	Rhetoric and Composition	3
MATH 2414	Calculus II	4
PHYS 2325 & PHYS 2125	University Physics I and University Physics I Lab	4
Lang/Phil/Culture		3
<b>Semester Credit Hours</b>		<b>17</b>
<b>Sophomore Year</b>		
<b>Semester 1</b>		
CHEM 1312 & CHEM 1112	Gen Inorganic Chemistry II and Gen Inorganic Chem Lab II	4
EVEN 2310	Intro to Environmntl Engineer	3
HIST 1302	American History since 1877	3
MEEN 2355	Statics and Dynamics	3
POLS 2301	Government and Politics of US	3
<b>Semester Credit Hours</b>		<b>16</b>
<b>Semester 2</b>		
BIOL 1306	General Biology I	3
EVEN 2304	Computer Methods for EVEN	3
EVEN 2311	Env. Engr. Ethics & Policy	3
MATH 3320	Differential Equations	3
PHYS 2326 & PHYS 2126	University Physics II and University Physics II Lab	4
<b>Semester Credit Hours</b>		<b>16</b>
<b>Junior Year</b>		
<b>Semester 1</b>		
CHEM 3323 & CHEM 3123	Organic Chemistry I and Organic Chemistry Lab I	4
EVEN 3320	Chemical Principles for EVEN	3
EVEN 3321	Environmental Engineering Lab	3
POLS 2302	Government and Politics of TX	3
Communications		3
<b>Semester Credit Hours</b>		<b>16</b>
<b>Semester 2</b>		
CEEN 3317	Engineering Economics	3
CEEN 3392	Hydraulic and Fluid Mechanics	3

Select 1 of the following:		3
EVEN 2372	Envir Eng in a Global Society <sup>2</sup>	
	Social/Behavioral	
EVEN 3328	Environ Engi Process Fundamntl	3
MEEN 3347	Thermodynamics	3
or CHEN 3347	or Chem Eng Thermodynamics I	
Engineering Elective (p. 2)		3
<b>Semester Credit Hours</b>		<b>18</b>
<b>Senior Year</b>		
<b>Semester 1</b>		
EVEN 4102	Environ Engineering Design I	1
EVEN 4308	Wastewater Treatment	3
EVEN 4306	Solid & Hazard Waste Fundamntl	3
EVEN 4386	Air Pollution Control	3
STAT 4303	Statistical Methods	3
Creative arts		3
<b>Semester Credit Hours</b>		<b>16</b>
<b>Semester 2</b>		
EVEN 4105	Engineering Management	1
EVEN 4303	Environmental Engineering Design II (WI)	3
EVEN 4304	Water Res. & Adv. Comp. Meth.	3
GEOL 4425	Hydrogeology	4
or PLSS 3410	or Principles of Soil Science	
Engineering Elective (p. 2)		3
<b>Semester Credit Hours</b>		<b>14</b>
<b>Total Credit Hours Required:</b>		<b>129</b>

## Engineering Electives

Choose 6 hours from one of the following focus areas:

Code	Title	Semester Credit Hours
AEEN 3320		3
AEEN 3335	Building Environmental Systems	3
AEEN 3346	Thermal Analysis	3
AEEN 3350	Facility Management	3
CEEN 3311	Strength of Materials	3
CEEN 4350	Professional Preparation	3
CEEN 4362	Hydrology	3
CEEN 4364	Dsgn Wtr and Wstwr Convay Sys	3
CEEN 4367	Geoenvironmental Engineering	3
CHEN 3321	Process Simulation	3
CHEN 4311	Biochemical Engineering	3
CHEN 4373	Chemical Reactor Engineering	3
CHEN 4389	Mass Transport Phenomena	3
CHEN 4392	Process Dynamics and Control	3
EEEN 3331	Circuits and Electmag Devices	3
EEEN 4357	Wireless Sensor Networks	3
EVEN 3336	Environmental Microbiology	3
EVEN 3399	Nuclear Environment Protection	3
EVEN 4336	Selected Topics	1-3
EVEN 4399	Internship in Env. Engineering <sup>2</sup>	1-3

ITEN 3336	Industrial Hygiene I	3
ITEN 3338	Industrial Hygiene II	3
ITEN 4332	Hazardous Waste and Fire Safe	3
MEEN 3344	Materials Science	3
MEEN 3398	Comp App in Nuclear Engr	3
MEEN 4317	Internal Combustion Engines	3
MEEN 4347	Hydraulics of Pipeline Systems	3
MEEN 4354	Intro to Finite Elem Method	3
MEEN 4396	Fundamentals of Nuclear Engineering	3
MEEN 4397	Intro to Nuclear Power Plants	3
NGEN 3322	Fund of Reservoir Engineering	3
NGEN 3393	Fundamentals of Drilling Engg	3
NGEN 4375	Natural Gas Transmission and Distribution	3
NGEN 4383	Natural Gas Processes	3
NGEN 4478	Hydrocarbon Measurement	4

<sup>1</sup> Pre-Engineering Student and Alternate Pre-Engineering students are required to take UNIV 1201 instead of GEEN 1201.

<sup>2</sup> EVEN 4399 – Internship in Environmental Engineering can be used as an Engineering Elective if approved by the department.