

BSENV Environmental Engineering
Fall 2020

This document is an example of a BSENV program of study. Several factors can affect the course scheduling sequence. For a copy of the official curriculum, please go to the UGA Bulletin: <http://bulletin.uga.edu/>

Major Requirements

Students must earn a grade of "C" (2.0) or better in the courses indicated in **bold**.

High Demand Entrance Requirements

To be considered as a candidate for BSENV, students must complete the courses listed in *italics* with a grade of "C" (2.0) or better. For more information on entrance requirements, please refer to the UGA Bulletin: <http://bulletin.uga.edu/> and our website.

YEAR ONE					
<u>Fall Semester</u>		<u>Hours</u>	<u>Spring Semester</u>		<u>Hours</u>
<i>MATH 2250</i>	<i>Calculus I</i>	4	<i>MATH 2260</i>	<i>Calculus II</i>	4
CHEM 1211&L	Freshman Chemistry I	4	CHEM 1212&L	Freshman Chemistry II	4
<i>ENGR 1120</i>	<i>Engineering Graphics</i>	2	<i>PHYS 1251</i>	<i>Physics for Engineers I</i>	3
<i>ENGL 1101</i>	<i>English Composition I</i>	3	ENGR 1140	Computational Engr. Methods	2
	Humanities & The Arts Elective	3	ENGL 1102	English Composition II	3
FYOS	First-Year Odyssey Seminar	1			
Total Credit Hours		17	Total Credit Hours		16
YEAR TWO					
<u>Fall Semester</u>		<u>Hours</u>	<u>Spring Semester</u>		<u>Hours</u>
MATH 2500	Multivariable Calculus	3	MATH 2700	Differential Equations	3
<i>ENGR 2120</i>	<i>Statics</i>	3	ENGR 3160	Fluid Mechanics	3
PHYS 1252	Physics for Engineers II	3	ENVE 2610	Intro ENVE & Sustainability	3
CHEM 2211&L	Organic Chemistry I	4	ENVE 2920	ENVE Design Methodology	3
	World Lang & Culture Elective	3	BIOL 1104	Organismal Biology	3
Total Credit Hours		16	Total Credit Hours		15
YEAR THREE					
<u>Fall Semester</u>		<u>Hours</u>	<u>Spring Semester</u>		<u>Hours</u>
ENVE 3210	Energy Analysis I	3	ENVE 3220	Energy Analysis II	3
ENVE 3320&L	ENVE – Urban Systems	4	ENGR 2140	Strength of Materials	3
ENVE 3510	Modeling, Stat. Analysis, Uncertainty	3	ECOL 3500&L	Ecology	4
ENVE 4435	Natural Resources Engineering	3		World Lang & Culture Elective	3
EHSC 4350&L	Environmental Chemistry	3		Social Sciences Elective	3
Total Credit Hours		16	Total Credit Hours		16
YEAR FOUR					
<u>Fall Semester</u>		<u>Hours</u>	<u>Spring Semester</u>		<u>Hours</u>
ENVE 4910	Capstone Design I	2	ENVE 4911	Capstone Design II	2
ENGR 2110	Engr. Decision Making	3		ENVE Elective	3
	ENVE Elective	3		ENVE Elective	3
	ENVE Elective	3		ENVE Elective	3
	ENVE Elective	3		World Lang & Culture Elective	3
	Social Sciences Elective	3		Social Sciences Elective	3
Total Credit Hours		17	Total Credit Hours		17

Environmental Engineering (ENVE) Electives

Choose six (6) courses:

At least one (1) course must be taken from Elective Area B. At least three (3) design courses (indicated in *italics*) must also be selected.

A. Energy/Water Resources

AENG 3540	<i>Physical Unit Operations</i>
CVLE 3420	<i>Introduction to Soil Mechanics</i>
CVLE 3440	<i>Hydraulics of Closed Conduit Flow</i>
ENGR 4490/6490	<i>Renewable Energy Engineering</i>
CVLE/MCHE/LAND 4660/6660	<i>Sustainable Building Design</i>
ENVE 4230/6230	<i>Energy in Nature, Civilization and Engineering</i>
ENVE 4410/6430	<i>Open Channel Hydraulics</i>
ENVE 4470/6470	<i>Environmental Engineering Unit Operations</i>
MCHE 4400/6400	<i>Air Pollution Engineering</i>

B. Infrastructure/Planning/Economics

ENVE 4250/6250	Energy Systems and The Environment
ENVE 4530/6530	Energy & Environmental Policy Analysis
ENVE 4550/6550	Environmental Life Cycle Analysis
ENVE 4710	GIS for Urban Engineering, Planning, Development
ENVE 4720	Urban Infrastructure Planning and Development
ELEE 4710	Fundamentals of Power Engineering
ELEE 4750	Power System Analysis