

BSENV Environmental Engineering
Fall 2017

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 indicated in *italics*. 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	<i>ENGR 1140</i>	<i>Computational Engr. Methods</i>	2
	Humanities & The Arts Elective	3	ENGL 1102	English Composition II	3
FYOS	First-Year Odyssey	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>
<i>MATH 2500</i>	<i>Multivariable Calculus</i>	3	<i>MATH 2700</i>	<i>Differential Equations</i>	3
<i>ENGR 2120</i>	<i>Statics</i>	3	ENGR 3160	Fluid Mechanics	3
PHYS 1252	Physics for Engineers II	3	<i>ENVE 2610</i>	<i>Intro ENVE & Sustainability</i>	3
<i>CHEM 2211&L</i>	<i>Organic Chemistry I</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>
<i>ENVE 3210</i>	<i>Energy Analysis I</i>	3	<i>ENVE 3220</i>	<i>Energy Analysis II</i>	3
<i>ENVE 3320&L</i>	<i>ENVE – Urban Systems</i>	4	ENGR 2140	Strength of Materials	3
<i>ENVE 3510</i>	<i>Modeling, Stat. Analysis, Uncertainty</i>	3	<i>ECOL 3500&L</i>	<i>Ecology</i>	4
<i>ENVE 3410</i>	<i>Intro Natural Resources Engr.</i>	3		World Lang & Culture Elective	3
<i>EHSC 4350</i>	<i>Environmental Chemistry</i>	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>
<i>ENVE 4910</i>	<i>ENVE Senior Design Project I</i>	2	<i>ENVE 4920</i>	<i>ENVE Senior Design Project II</i>	2
<i>ENVE 3520</i>	<i>Engr. Economics & Management</i>	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 one (1) course:

ENVE 4530/6530	Energy & Environmental Policy Analysis
ENVE 4540	Economics of Energy & Sustainable Development

Choose five (5) 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

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

B. Infrastructure/Planning/Economics

ENVE 4250	Energy Systems and The Environment
ENVE 4550/6550	Environmental Life Cycle Analysis
ENVE 4710	GIS for Urban Engineering, Planning, Development
ENVE 4720	Urban Infrastructure Planning and Development