BSENVE Environmental Engineering Fall 2023

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

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 BSENVE, students must complete any required 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: <u>http://bulletin.uga.edu/</u> and our website.

YEAR ONE					
Fall Semester		<u>Hours</u>	Spring Semester		Hours
MATH 2250	Calculus I	4	MATH 2260	Calculus II	4
CHEM 1211&L	Freshman Chemistry I	4	CHEM 1212&L	Freshman Chemistry II	4
ENGR 1120	Engineering Graphics	2	PHYS 1251	Physics for Engineers I	3
ENGL 1101	English Composition 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
YFAR TWO					
Fall Semester		Hours	Spring Semester		Hours
MATH 2500	Multivariable Calculus	3	MATH 2700	Differential Equations	3
ENGR 2120	Statics	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	C	16	Total Credit Hours	с с,	15
VFAR THRFF					
Fall Semester		Hours	Spring Semester		Hours
ENVE 3210	Energy Analysis I	3	ENVE 3220	Energy Analysis II	3
ENVE 3320&I	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
TEAR FOUR		Hours	Spring Somostor		Hours
Fail Selliester	Canstone Design I	2	Spring Seriester	Capstone Design II	<u>חטערs</u> כ
ENCE 2110	Engineering Decision Making	2			2
	ENVE Elective	2			2
	ENVE Elective	2		ENVE Elective	2
	ENVE Elective	2		World Lang & Culture Elective	2
	Social Sciences Flective	3		Social Sciences Elective	2
Total Credit Hours		17	Total Credit Hours		5 17
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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

CVLE 3420Introduction to Soil MechanicsCVLE 3440Hydraulics of Closed Conduit FlowENGR 4490/6490Renewable Energy EngineeringCVLE/MCHE/LAND 4660/6660Sustainable Building Design
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ENGR 4490/6490Renewable Energy EngineeringCVLE/MCHE/LAND 4660/6660Sustainable Building Design
CVLE/MCHE/LAND 4660/6660 Sustainable Building Design
ENVE 4230/6230 Energy in Nature, Civilization and Engineering
ENVE 4410/6410 Open Channel Hydraulics
ENVE 4450/6450 Engineering Hydrology and Hydraulics
ENVE 4470/6470 Environmental Engineering Unit Operations
MCHE 4400/6400 Air Pollution Engineering

B. Infrastructure/Planning/Economics

ELEE 4710*	Fundamentals of Power Engineering
ELEE 4750	Power Systems Analysis
ENGR 3620	Introduction to E-Mobility
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
ENVE 4730	Environmental Justice: Evidence and Impact

*Students interested in taking ELEE 4710 must complete ENGR 2170 (Electrical Circuits) prior. ENGR 2170 is not part of the BSENVE curriculum. ELEE 4710 is a prerequisite for ELEE 4750.