

Program Map: Environmental Science
Department of Marine and Environmental Sciences, College of Sciences and Technology

Name: _____ **SID:** _____ **Advisor:** _____
Start Date: _____ **Catalog Date:** _____ **Expected Graduation Date:** _____

Freshman	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	ENGL 1101* Core Area A	Composition I	3	ENGL 1102 * Core Area A	Composition II Pre-requisite: ENGL 1101	3	
MATH 1113* Core Area A	Pre-Calculus Pre-requisite: MATH 1111 or test score	3	MATH 2101* Area F	Calculus I Pre-requisite: MATH 1113	4		
BIOL 1107 * Area D (non-lab)	Principles of Biology I	3	POLS 1101 Core Area E	Political Science	3		
BIOL 1107L * Area F	Principles of Biology I Lab	1	CHEM 1211* Area D Lab	Principles of Chemistry I**	3		
ENVS 2401* Area F	ENVS 2401 Intro. Envir. Sci.	3	CHEM 1211L* Area D Lab	Principles of Chemistry I Lab**	1		
ENVS 2401L* Major	ENVS 2401L* Intro Env. Sci. Lab	1					
COST 1103 Area F	COST First Year Experience	2					
Fall Milestones			Total	Spring Milestones		Total	
			16			14	

Sophomore	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	HUMN 1201 Core Area B	Critical Thinking & Communications	3	Core Area C Option	SEE GUIDELINES	3	
HIST 2111/2112 Core Area E	U.S. History	3	BIOL 1108* Area F	Principles of Biology II Pre-requisite: Biology 1107	3		
ENVS 1121K* Major	Physical Geology	4	BIOL 1108L* Major	Principles of Biology II Pre-requisite: Biology 1107L	1		
CHEM 1212* Area D Lab	Principles of Chemistry II Pre-requisite: CHEM 1211	3	Area E Social Sci. Option	SEE GUIDELINES	3		
CHEM 1212L* Area D Lab	Principles of Chemistry II Pre-requisite: CHEM 1211L	1	Area E Social Sci. Option	SEE GUIDELINES	3		
Core Area C Option	SEE GUIDELINES	3	PHYS 1111K* Area F	Intro to Physics I Pre-requisite: MATH 1113	4		
Fall Milestones			Total	Spring Milestones		Total	
Student should know their career track. Students should know career track options and discuss with mentors.			17	Student should have completed a job shadowing, work, or volunteer experience relevant to their career track		17	

Junior	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	AFRS 1501 * Core Area B	Survey of the African-American Experience	2	ENVS 3203* Major	Environmental Chem & Analysis Pre-requisite: CHEM 1212, ENVS 2401	3	
ENVS 3121* Major	Environmental Ethics Pre-requisite: ENVS 2401	3	ENVS 3203L* Major	Environmental Chem & Analysis Co-requisite: ENVS 3203	1		
CHEM 2501* Major	Organic Chemistry I Pre-requisite: CHEM 1212	3	ENVS 3621* Major	Environmental/Urban Health & Hygiene Pre-requisite: ENVS 2401, BIOL 1107K	3		
CHEM 250L* Major	Organic Chemistry I Lab Pre-requisite: CHEM 1212L	1	Major ELEC* Major	SEE GUIDELINES	4		
OPEN ELECTIVE* Major	ELEC FROM COST	4	OPEN ELECTIVE* Major	ELEC FROM COST	3		
Fall Milestones			Total	Spring Milestones		Total	
Student should have completed an internship or research experience relevant to their career track.			13	Students should have completed any required admissions testing for their career track (GRE, LSAT, MCAT, PCAT, DAT)		14	

Senior	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	ENVS 4121* Major	Environmental Law Pre-requisite: ENVS 2401, ENVS 3121	3	ENVS 3201* Major	Limnology Pre-requisite: ENVS 2401, CHEM 1212	3	
ENVS 4101* Major	Contaminant Hydrology Pre-requisite: MATH 2101	3	ENVS 3201L* Major	Limnology Lab Co-requisite: ENVS 3201	1		
ENVS 4101L* Major	Contaminant Hydrology Lab Co-requisite: ENVS 4101	1	ENVS 4301* Major	Solid & Hazardous Waste Mgt. Pre-requisite: ENVS 3203, CHEM 2501	3	**Some professional educational programs may need to be completed by the summer before the senior year.	
ENVS 4202* Major	Principles of Ecotoxicology Pre-requisite: ENVS 2401, CHEM 2501	3	ENVS 4801* Major	Internship Pre-requisite: Seminar, Senior Standing	2		
Major ELEC* Major	SEE GUIDELINES	3	ENVS 4901* Major	Environmental Synthesis Seminar Pre-requisite: Senior Standing	1		
Major ELEC* Major	SEE GUIDELINES	3	OPEN ELECTIVE* Major	ELEC FROM COST	3	Does this Degree Program Require a Minor? <u>No</u>	
Fall Milestones			Total	Spring Milestones		Total	
Application completed for further graduate/professional studies relevant to your career track.			16	Job application and/or additional grad/professional program applications.		13	

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Core Curriculum (Programmed Preferred Options in Bold)

Area B – Institutional Options 5 hrs

- i. AFRS 1501 Survey of African-American Experience 2 hrs
- ii. HUMN 1201 Critical Thinking & Communication 3 hrs

Area C – Humanities/Fine Arts, and Ethics 6 hrs,

1. Select one of the following:
 - i. ENGL 2111 World Literature I 3 hrs
 - ii. ENGL 2112 World Literature II 3 hrs
 - iii. ENGL 2121 British Literature I 3 hrs
 - iv. ENGL 2122 British Literature II 3 hrs
 - v. ENGL 2131 American Literature I 3 hrs
 - vi. ENGL 2132 American Literature II 3 hrs
 - vii. ENGL 2222 African American Literature 3 hrs
 - viii. PHIL 2010 Introduction to Philosophy 3 hrs
 - ix. PHIL 2030 Introduction to Ethics 3 hrs
2. Select one of the following:
 - i. ARTS 1101 Introduction to Visual Art 3 hrs
 - ii. DNCE 2010 Dance Appreciation 3 hrs
 - iii. ENGL 2521 Introduction to Film 3 hrs
 - iv. HUMN 2011 Humanities 3 hrs
 - v. MUSC 1101 Introduction to Music 3 hrs
 - vi. THEA 2101 Introduction to Theatre 3 hrs

Area D – Natural Sciences, Math & Technology 10 hrs

1. Select one of the following:
 - i. BIOL 1107 Principles of Biology I 3 hrs
 - ii. BIOL 1108 Principles of Biology II 3 hrs
 - iii. CHEM 1211 Principles of Chemistry I 3 hrs**
 - iv. CHEM 1212 Principles of Chemistry II 3 hrs**
 - v. CISM 1130 Computer Applications 3 hrs
 - vi. CSCI 1130 Computer Applications 3 hrs
 - vii. CSCI 1301 Computer Science I 3 hrs
 - viii. ENVS 1140 Environmental Issues 3 hrs
2. Select two of the following lab sciences in sequence:
 - i. BIOL 1107/1107L Principles of Biology I 4 hrs**
 - ii. BIOL 1108/1108L Principles of Biology II 4 hrs
 - iii. CHEM 1211/1211L Principles of Chemistry 4 hrs**
 - iv. CHEM 1212/1212L Principles of Chemistry 4 hrs**
 - v. PHYS 1111K Introductory Physics I 4 hrs
 - vi. PHYS 1112K Introductory Physics II 4 hrs
 - vii. PHYS 2211K Principles of Physics I 4 hrs
 - viii. PHYS 2212K Principles of Physics II 4 hrs

Area E – Social Science 12 hrs

- i. POLS 1101 American Government 3 hrs
2. Select one of the following:
 - i. HIST 2111 U.S. History to the Post-Civil War Period 3 hrs
 - ii. HIST 2112 U.S. History from the Post-Civil War to Pre 3 hrs
3. Select two of the following:
 - i. AFRS 2000 Introduction to Africana Studies 3 hrs
 - ii. ANTH 1101 Introduction to Anthropology 3 hrs
 - iii. ECON 2105 Principles of Macro-Economics 3 hrs
 - iv. GEOG 1101 Introduction to Human Geography 3 hrs
 - v. HIST 1111 World Hist to Early Modern Times 3 hrs
 - vi. HIST 1112 World History Early Modern Times to Pres 3 hrs
 - vii. POLS 2401 Global Issues 3 hrs
 - viii. PSYC 1101 Intro to General Psychology 3 hrs
 - ix. PSYC 2103 Human Growth & Development 3 hrs
 - x. SOCI 1101 Introduction to Sociology 3 hrs
 - xi. SOCI 1160 Social Problems 3 hrs

Program Description

The mission of the SSU Environmental Science Program is to provide students with special training and knowledge in the natural and social sciences so that they may be empowered to articulate environmental issues to citizens of the local and state communities and support the effort of government and industrial agencies to solve such problems. The program provides hands-on experiences in research, raises awareness of environmental justice, and inspires action.

Major Guidelines

Major Electives (10 hours):

Choose 10 hours from the courses below. Any extra hours earned will count in the Open Elective area.

CHEM 3101/L Analytical Chemistry
CHEM 3201/L Instrumental Analysis
ENVS 3301/L Environmental Radiation
ENVS 4401 Environmental Impact Assessment
ENVS 4910 Special Topics
MSCI 3702 Intro to GIS
MSCI 4601 Marine Conservation Biology

Open Electives (10 hours):

Selected from COST courses primarily 3000/4000-level.
Any extra hours from Major Electives count here.