

Requirements and Curriculum for the BS in Integrated Environmental Science (IES) (as of 07/06/16)

The B.S. degree program in IES is a restricted major with special admission requirements. Students who wish to enter the IES program are considered to be IES Candidates until they have:

- Completed their Freshman year of General Education courses at BCU (or transferred in a year of General Education coursework) with a grade point average of 2.5 on a four point scale or greater, and
- Passed the Gateway Course for the IES program, Principles of Environmental Science, with a grade of “C” or better in both the lecture (ES 241) and laboratory (ESL 241) sections

Once completed, students are considered to be a Major in IES and may take other IES course offerings as well as access any available research or field opportunities (including potential associated funding).

Program Requirements

As IES is a restricted major, a student must maintain a minimum 2.0 gpa to remain a major in IES and to earn a degree, and must pass all English, Math, and CSEM courses (including ES courses) with a grade of “C” or better. An IES student who earns less than a “C” in a listed course and/or receives a gpa below 2.0 will be given a grace period of one retake or one semester to correct the deficiency, or the student will be withdrawn from the degree program. A student may take advantage of a grace period only once during their academic program in IES.

All IES majors are required to complete all IES Departmental Seminars, including the successful completion, presentation, and defense of a research project in their senior year in association with the department’s Senior Seminar. The defense will include information and questions covering both the research project and program coursework from their studies at B-CU.



Bethune-Cookman University

Integrated Environmental Science: Total Semester Hours = 129

Freshman Year							
First Semester				Second Semester			
EN	131	College English I*	3	EN	132	College English II	3
BI	141	Principles of Biology I	3	BI	142	Principles of Biology II	4
BIL	141	Principles of Biology Lab I	1	CH	142	General Chemistry II	3
MAT	135	Pre Calculus*	3	CHL	142	General Chemistry II Lab	1
FC	110	Freshman Seminar I	1	MAT	136	Analytical Trigonometry	3
BI	111	Introduction to Biology	1	FC	111	Freshman Seminar II	1
PE	113	Health and Wellness	1	HI	130	African American History	3
CH	141	General Chemistry I	3				
CHL	141	General Chemistry I Lab	1				
		Total	17			Total	18
Sophomore Year							
First Semester				Second Semester			
SC	230	Intro to Oral Communication	2	BI	222	Biology Sophomore Seminar	1
RELI	110	Understanding Faith	3	ES	215	Environmetrics	3
BI	240	Principles of Biology III	4	HU/SS	200/245	Int. Humanities or Int. Social Sci.	3
CIS	215	Fundamentals of Scientific Computing	3	ES	246	Environ. Microbiology	3
MAT	241	Calculus I	3	ESL	246	Environ. Microbiology Lab	1
MAL	241	Calculus I Lab	1	ES	233	Environmental Ethics	3
FC	280	Sophomore Seminar	1	ES	241	Prin. of Environmental Science	3
				ESL	241	Prin. of Environmental Science Lab	1
		Total	17			Total	18
Junior Year							
First Semester				Second Semester			
ES	240	Environ. Chemistry	3	FC	3??	Junior Seminar	1
ES	240	Environ. Chemistry Lab	1	ES	345/346	Coastal Sys <u>or</u> FW Aquatic Sys	3
BI	437	General Ecology	4	ESL	345/346	Coastal Sys Lab <u>or</u> FW Aq Sys Lab	1
PH	241/251	General Physics <u>or</u> College Physics	4	ES	332	Environ. Human Ecology	3
PHL	241/251	General Physics Lab <u>or</u> Coll Physics Lab	0	**	***	100/200 Free Elective	3
ES	338	Research Methods	3	ES	334/339	Microclimatology <u>or</u> Hydrology	3
ES	311	IES Junior Seminar	1	ES	334/339	Microclimat. Lab <u>or</u> Hydrology Lab	1
		Total	16			Total	15
Senior Year							
First Semester				Second Semester			
ML	131	Modern Language	3	ML	132	Modern Language	3
ES	335	GIS and Remote Sensing	3	**	***	Elective: Any CSEM 300-400 level	3
ESL	335	GIS and Remote Sensing Lab	1	ES	430	Env. Policy and Risk Management	3
ES	244	Envir. and Ecological Economics	3	ES	450	Ecosystems	3
ES	330	Environmental Regulations	3	ES	499	IES Senior Seminar II	1
ES	498	IES Senior Seminar I	2				
		Total	15			Total	13

General Education Courses are bold.

*Based on your placement testing scores, these courses may require prerequisites which may extend the number of semesters needed to complete degree requirements. These prerequisites do not count towards the degree for graduation.

****MARCHING BAND MEMBERS ONLY, MUST substitute PE Activity with MUB 110 Marching Band.**

****ROTC MEMBERS ONLY, substitute PE Activity with MY 104 Basic Military Science and MYL 104 Basic Military Science Lab (ROTC)**