BS MAJOR IN EARTH SYSTEMS SUSTAINABILITY

Requirements for a Bachelor of Science Degree with a Major in Earth Systems Sustainability

Additional Graduation Requirements (https://catalog.una.edu/undergraduate/academic-procedures-requirements/graduation-requirements)

Code	Title	Hours		
General Education Component (https://catalog.una.edu/				
undergraduate/academic-procedures-requirements/general-				
education-comp	·	6		
Area II (Humanit	ties and Fine Arts)	6 12		
·				
	Sciences and Mathematics)	11		
BI 111	Principles of Biology ((includes 1 hour lab))			
BI 112	Principles of Biology ((includes 1 hour lab))			
MA 112	Pre-Calculus Algebra	10		
Area IV (History, Social and Behavioral Sciences) ²				
EC 251	Principles of Macroeconmics			
EC 252	Principles of Microeconomics			
Area V (https://www.una.edu/areav)				
-	uirements in Earth Systems Sustainability			
ES 131	Earth Science/Physical Geology	4		
or ES 133	Earth Science/Earth Systems			
ES 247	Sustainable Earth	4		
ES 251	Environmental Systems	4		
ES 348	Earth: Sustainable Resources	4		
ES 375	Technology and the Environment	3		
ES 480W	Topics in Earth Science ³	1-4		
or ES 481; ES 4				
ES 488	Hydrogeology	3		
ES 489	Senior Capstone Research	3		
Prescribed Supporting Courses				
BI 421	Ecology	4		
BI 423	Aquatic Ecology	4		
CH 465	Environmental Regulations	3		
GE 184	Digital Earth	3		
or GE 323	Image Interpretation and Analysis			
GE/EC 321	Economic Geography	3		
GE 384	Geographic Information Systems	4		
IH 301	Occupational Safety and Health	3		
Select one block of courses:		8		
PH 241	General Physics I			
& PH 242	and General Physics II			
CH 111	General Chemistry			
& 111L	and General Chemistry Laboratory			
& CH 112	and General Chemistry			
& CH 112L	and General Chemistry Laboratory	6		
Select two courses from the following:				

PS 302	Comparative Government and Politics	
PS 303	World Politics	
PS 412	Introduction to Public Policy	
Minor		

Mino

A minor is not required for a major in Earth Systems Sustainability

General Elective

If required, to bring total to 120.

Total Hours ⁴ 70-73

- For Bachelor of Arts degree, select six hours of a required foreign language at the introductory level
- These courses are required in the major if not completed as part of the General Education component.
- 3 Required
- ⁴ A laboratory is included in science courses that carry 4-5 credit hours (Physics and Earth Science Department).