

Curriculum Guide for AS to BS Environmental Science at WCU

Freshman/First Year

1st Semester*		Fall			2nd Semester			Spring	
CC Course	WCU Course Equivalent	LS Cat.	Credit Hours	Required/Notes	CC Course	WCU Course Equivalent	LS Cat.	Credit Hours	Required/Notes
ENG 111	ENGL 101	C1	3		ENG 112	ENGL 202	C1	3	
MAT 171	MATH 130	C2	4	Req' by major	COM 231	COMM 201	C3	3	
History	History	P3	3		BIO 112	BIO 141		4	Req' by major
Humanities/Fine Arts	Humanities	P4	3		MAT 172	MATH 146		4	
BIO 111	BIOL 140	C5	4	Required	Social/Behavioral Sciences	Social Sciences	P1	3	
ACA 111	USI 130		1						
Total Credit Hours					18 Total Credit Hours				

17

This plan assumes placement into college level courses. This is only meant to be a guide. Please see your academic advisor to develop your individual plan.

Sophomore/Second Year

3rd Semester		Fall			4th Semester			Spring	
CC Course	WCU Course Equivalent	LS Cat.	Credit Hours	Required/Notes	CC Course	WCU Course Equivalent	LS Cat.	Credit Hours	Required/Notes
HEA 110/PED 110	Wellness	C4	3		Social/Behavioral Sciences	Social Sciences	P1	3	
Other Elective from list*	Elective		3	See important note on page 2	Other Elective from list*	Elective		3	See note on p. 2
Social Science (Global Perspective)	World Cultures	P6	3		Other Elective*	Elective		3	See note on p. 2
CHM 151/Gen. Ed/UGETC Elective	CHEM 139	C5	4	Req' by major	CHM 152/Gen. Ed/UGETC Elective	CHEM 140		4	Req' by major
Total Credit Hours					13 Total Credit Hours				

13

Junior/Third Year (at WCU)

5th Semester

Fall

6th Semester

Spring

WCU Course	Course Title	Credit Hours	Notes	WCU Course	Course Title	Credit Hours	Notes
Environment and Society	ANTH 351/PAR 330/PAR 333/PSC 320/SOC 371	3		BIOL 241	Introduction to Ecology and Evolution	4	
ES 150	Approaches to Environmental Science	4		ES 250	Seminal Readings in Environmental Science	1	
Other elective from list*	Elective*	3	See note	GEOG 221	Intro. To Geospatial Analysis	3	
GEOL 150	Methods in Geology	4		Environmental Health Elective	ENVH 310/375/440	3	
Other elective from list*		3		ES 350	Seminar in Energy, Economics, and the Environment	1	
Total Credit Hours				Total Credit Hours			
15				13			

Senior/Fourth Year

7th Semester

Fall

8th Semester

Spring

WCU Course	Course Title	Credit Hours	Notes	WCU Course	Course Title	Credit Hours	Notes
ES 495	Senior Research Seminar in Environmental Science	3		Quantitative Methods	BIOL 467/CHEM 232/MATH 270/ENVH 470	3 or 4	
Policy Elective	ECON 310, ENVH 458, NRM 442, PSC 442	3		Field & Natural Environ. Science	BIOL 435/GEOL 305/GEOL 302/BIOL 375	4	
Upper Division Elective*		3 or 4		Analytical/Instrumentation	CHEM 330/CHEM 331/GEOL 465	3 or 4	
Upper Division Elective* Gen. Elective		3 or 4 3		Upper Division Elective*		3 or 4	
Total Credit Hours				Total Credit Hours			
15-17				13-15			

Total Credit Hours

120-125

Reminder: 30 hours of 300-400 level courses must be taken at WCU.

[More Information on B.S. Environmental Science](#)

*Additional 16 hours of ES program electives from these courses: BIOL 304, 438, 441; CHEM 370, 435, 461; COMM 313; ENVH 312; ES 480, 493; GEOG 324; GEOL 405, 410, 423, 455; MATH 370, 375; NRM 320, 330, 344, 351, 371, 444, 460; SOC 385.

*The ES major has core requirements taken by everyone, "categories" from which students must take at least one course, and 16 credits of guided electives chosen with your WCU advisor. For "other electives form list" If applicable and possible, students may wish to select from the following courses to complete the following degree requirements or categories, some of which are later listed in the junior and senior years. Students who do this will need to replace the junior/senior year courses taken during the associate's, to meet the 120 credit degree requirement and make sure they are on track to earn at least 30 credits of junior-senior level coursework --300.400 level--at WCU.

Core requirements	<p>GEL 111 / GEL 120 / PHS 130 (WCU equivalent GEOL 150, a course required for the major and listed in the junior year</p> <p>FOR 215 (or other courses to transfer in for WCU equivalent GEOG 221, a required course for the major, listed in the junior year</p> <p>ENV 220 (WCU equivalent BIOL 241, a required course in the major: note--at WCU BIOL 240, the pre-req, is waived for ES majors, but it might be needed at a CC); 241 is listed in the junior year</p>
Category courses: students need one of each of the courses listed in the WCU Catalog; the following courses would fulfill these categories	<p>Quantitative methods</p> <p style="padding-left: 40px;">CHM 261 (WCU equivalent CHEM 232: Quantitative Analysis)</p> <p style="padding-left: 40px;">MAT 252 (WCU equivalent MATH 270: Statistical Methods I)</p> <p>Field and natural environmental science</p> <p style="padding-left: 40px;">FOR 173 (WCU equivalent GEOL 305: Soils and Hydrology)</p> <p>Environmental health</p> <p style="padding-left: 40px;">ENV 214 (WCU equivalent ENVH 310: Water Quality Control)</p> <p style="padding-left: 40px;">ENV 222 (WCU equivalent ENVH 440: Air Quality Control)</p>
Guided Electives	<p>PHS 140 (WCU equivalent GEOG 300; Weather and Climate)</p>

See the Catalog for the ES degree requirements including the core, categories, and guided electives

http://catalog.wcu.edu/preview_program.php?catoid=49&pooid=6800&hl=Environmental+science&returnto=search