



2+2 Degree Plan
Associate of Science in Environmental Science
BS in Environmental Science (Chemistry)



Arkansas State University – Beebe
Associate of Science in Environmental Science¹

Possible Prerequisites			Semester	Hours	Grade
UNIV	1003	Principles of Academic Success (required if registering for a remedial course)		(3)	
ENG	0013	Precollege Literacy		N/C	
ENG	0023	College Literacy (taken with ENG 1003 – Freshman English I)		N/C	
MATH	0013	Foundations of Algebra I		N/C	
MATH	0112	Review for College Algebra (taken with MATH 1023 – College Algebra)		N/C	

General Education Requirements (35 credit hours)

English/Communication (12 credit hours)			UCA ²	Semester	Hours	Grade
ENG	1003	Freshman English I	WRTG 1310		3	
ENG	1013	Freshman English II	WRTG 1320		3	
SPCH	1203	Oral Communications	COMM 1300		3	
ENG	2003	World Literature I or	ENGL 2305		3	
ENG	2013	World Literature II	ENGL 2306			

Mathematics (3 credit hours) ³			UCA	Semester	Hours	Grade
MATH	1023	College Algebra	MATH 1390		3	

Lab Sciences (8 credit hours)			UCA	Semester	Hours	Grade
BIOL	1014	Principles of Biology	BIOL 1440		4	
CHEM	1014	General Chemistry I	CHEM 1450		4	

Fine Arts (3 credit hours)			UCA	Semester	Hours	Grade
ART	2503	Fine Arts – Visual or	ART 2300 MUS 2300 THEA 2300		3	
MUS	2503	Fine Arts – Musical or				
THEA	2503	Fine Arts – Theatre or				
THEA	2003	Introduction to Humanities I or				
HUM	2013	Introduction to Humanities II				

Social Sciences (6 credit hours) ⁴			UCA	Semester	Hours	Grade
HIST	2763	The United States to 1876 or	HIST 2301		3	
HIST	2773	The United States Since 1876 or	HIST 2302			
POSC	2103	Introduction to United States Government	PSCI 1330			
HIST	1013	World Civilization to 1660 or	HIST 1310		3	
HIST	1023	World Civilization since 1660	HIST 1320			

Social or Behavioral Science Elective (3 credit hours)			UCA	Semester	Hours	Grade
GEOG	2613	Introduction to Geography	GEOG 1305		3	

Environmental Science Core (25 credit hours)

			UCA	Semester	Hours	Grade
CHEM	1024	General Chemistry II	CHEM 1451		4	
CHEM	2104	Organic Chemistry I	CHEM 2401		4	
CHEM	2114	Organic Chemistry II	CHEM 3411		4	
MATH	1033	Plane Trigonometry	MATH 1392		3	
MATH	2205	Calculus I	MATH 1496		5	
MATH	2215	Calculus II	MATH 1497		5	

Total Hours: 60⁵



2+2 Degree Plan
Associate of Science in Environmental Science
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University of Central Arkansas
Bachelor of Science in Environmental Science (Chemistry)
UCA Courses (60 credit hours)⁶

Environmental Science Core (22 hours)			Semester	Hours	Grade
BIOL	1441	Principles of Biology II		4	
GEOG	1400	Earth Systems Science		4	
GEOG	3301	Conservation of Natural Resources		3	
ENVR	3410	Environmental Theory and Application		4	
ENVR	4410	Environmental Practicum		4	
PSCI	3320	Environmental Policy and Regulation		3	

Chemistry Core (23 hours)			Semester	Hours	Grade
CHEM	3211	Organic Spectroscopy		2	
CHEM	3520	Quantitative Analysis		5	
CHEM	4152	Environmental Chemistry Laboratory		1	
CHEM	4351	Environmental Chemistry		3	
CHEM	4451	Advanced Analytical Chemistry		4	
PHYS	1410	College Physics 1 or		4	
PHYS	1441	University Physics 1			
PHYS	1420	College Physics 2		4	
PHYS	1442	University Physics 2			

Major Electives (10 hours)			Semester	Hours	Grade
		Upper Division Restricted Elective (From Approved List – See Major Advisor)		3	
		Upper Division Restricted Elective (From Approved List – See Major Advisor)		3	
		Upper Division Restricted Elective (From Approved List – See Major Advisor)		3	
		Upper Division Restricted Elective (From Approved List – See Major Advisor)		1	

General Electives (5 hours)			Semester	Hours	Grade
		Upper Division Core Course		3	
		General Elective		2	

Total Hours: 120⁷

¹ See your ASU-Beebe advisor for degree and graduation information.
² UCA transfer course designations are either guaranteed by ACTS (acts.adhe.edu) or have been approved as a substitution by UCA. Unless otherwise noted, courses for which no UCA equivalent course is listed would transfer in as elective credit.
³ Any student who has already earned College Algebra (MATH 1023) credit is encouraged to start in Plane Trigonometry (MATH 1033).
⁴ Students following this degree plan will need to choose POSC 2103 as one of the courses to fulfill this requirement.
⁵ Students completing the AS in Environmental Science degree requirements, as shown above, with a minimum 2.0 cumulative GPA, will have satisfied the UCA Lower-Division Core requirements and will be admitted to the BS in Environmental Science (Chemistry) degree program as a junior.
⁶ For more specific information about degree requirements within the junior and senior years at UCA, please review the UCA Undergraduate Bulletin (<http://uca.edu/ubulletin>) and consult your UCA academic advisor.
⁷ This degree program requires a total of 120 semester credit hours, including at least 40 upper-division credit hours completed at UCA.