

2+2 Degree Plan
Associate of Science - Liberal Arts & Sciences (STEM) NWACC
To
Bachelor of Science, Biology – Environmental Option ATU

Northwest Arkansas Community College Courses (60 credit hours)

General Education Requirements (35 credit hours)

English/Communications (6 hours)			ATU equivalent¹	Hours
ENGL	1013	English Composition I	ENGL 1013 Composition I	3
ENGL	1023	English Composition II	ENGL 1023 Composition II	3

Math (3 hours)			ATU equivalent¹	Hours
MATH	1203	College Algebra	MATH 1113 College Algebra	3

***Or higher-level MATH course.**

Lab Sciences (8 hours)			ATU equivalent¹	Hours
BIOL	1544	Principles of Biology I	BIOL 1114 Principles of Biology	4
CHEM	1104	College Chemistry I	CHEM 2124 General Chemistry I <i>and</i> CHEM 2120 General Chemistry I Lab	4

U.S. History/Government (3 hours) Choose One			ATU equivalent¹	Hours
HIST	2003	History of American People - 1877	HIST 2003 United States History to 1877	3
HIST	2013	History of American People – 1877 to Present	HIST 2013 United States History since 1877	3
PLSC	2003	American National Government	POLS 2003 American Government	3

Fine Arts & Humanities (6 hours) Choose Two			ATU equivalent¹	Hours
ARHS	1003	Art Appreciation	ART 2123 Experiencing Art	3
COMM	1003	Film Arts	JOUR/ENGL 2173 Introduction to Film	3
ENGL	2213	Survey of World Literature to 1650	ENGL 2003 Introduction to World Literature	3
ENGL	2313	Survey of American Lit. to Civil War	ENGL 2013 Introduction to American Literature	3
MUSI	1003	Music Appreciation	MUS 2003 Introduction to Music	3
THTR	1003	Introduction to Theater	TH 2273 Introduction to Theatre	3

***See Arkansas Course Transfer System (ADHE-ACTS) for fine arts/humanities alternatives.**

Social Sciences (9 hours)			ATU equivalent¹	Hours
SOCI	2013	General Sociology	SOC 1003 Introduction to Sociology	3
ECON	2013	Macroeconomics	ECON 2003 Principles of Macroeconomics	3
ANTH	1023	COMPLETE ONE Intro. to Cultural Anthropology	ANTH 2003 Cultural Anthropology	3
HIST	1033	World Civilizations to 1500	HIST 1503 World History to 1500	
HIST	1043	World Civilizations from 1500	HIST 1513 World History since 1500	

PHIL	2003	Introduction to Philosophy	PHIL 2003 Introduction to Philosophy	
PSYC	2003	General Psychology	PSY 2003 General Psychology	

*See Arkansas Course Transfer System (ADHE-ACTS) for social sciences credit alternatives.

Northwest Arkansas Community College Courses
Associate Degree Requirements & Electives (25 credit hours)

NWACC Courses			ATU equivalent	Hours
BOTY	2534	Environmental Biology	BIOL 1004 Principles of Environmental Science	4
GEOL	1114	General Geology	GEOL 1014 Physical Geology	4
CHEM	1124	College Chemistry II	CHEM 2134 General Chemistry II <i>and</i> CHEM 2130 General Chemistry II Lab	4
BOTY	1614	Plant Biology	BIOL 2134 Principles of Botany	4
COMM	1303	Public Speaking	COMM 2003 Public Speaking	3
PSYC	2013	Intro to Statistics for Behavioral and Social Sciences	SOC/PSY 2053 Statistics for the Behavioral Sciences	3
		Approved Electives		3

Arkansas Tech University Courses 60-65 credit hours

BIOL	1011	Orientation to Biological Sciences- <i>waive for NWACC transfer students</i>	Waive
BIOL	2124	Principles of Zoology	4
CHEM	3254	Fundamentals of Organic Chemistry	4
CHEM	3264	Mechanistic Organic Chemistry	4
PHYS	2014	Algebra-Based Physics I <i>and</i>	4
PHYS	2000	Physics Laboratory I	
PHYS	2024	Algebra-Based Physics II <i>and</i>	4
PHYS	2000	Physics Laboratory II	
BIOL	3034	Genetics	4
BIOL/ENVS	3043	Conservation	3
BIOL	3054	Microbiology	4
BIOL	3114	Principles of Ecology <i>or</i>	4
BIOL	4094	Coastal Ecology	
BIOL	3174	Physiological Ecology	4
BIOL	4111	Environmental Seminar	1
		Environmental Science Elective ⁴	9-12
		Major Support Elective ²	6-8
		Mathematics or Statistics Elective ³	3
		Electives	0-2

¹ See appropriate alternatives or substitutions in "General Education Requirements".

² Major Support Elective courses include: [BIOL 3353](#) Fundamentals of Toxicology, [CHEM 3313](#) Environmental Chemistry, [CHEM 4991](#) Special Problems in Chemistry, [CHEM 4992](#) Special Problems in Chemistry, [CHEM 4993](#) Special Problems in Chemistry, [CHEM 4994](#) Special Problems in Chemistry, [FW 2833](#) Introduction to Geographic Information Systems, [FW 3074](#) Habitat Evaluation, [FW 4034](#) Advanced Geographic Information Systems Applications, [GEOL 3083](#) Hydrogeology, [GEOL 3153](#) Environmental Geology.

³ Mathematics and Statistics Elective courses include: any mathematics course higher than [MATH 1113](#) College Algebra or any statistics course higher than [STAT 2163](#) Introduction to Statistical Methods.

⁴ Environmental Elective courses include: [BIOL 3004](#) Plant

Taxonomy, [BIOL 3033](#) Bioinformatics, [BIOL 3064](#) Parasitology, [BIOL 3084](#) Ichthyology, [BIOL 3104](#) Introduction to Entomology, [BIOL 3134](#) Invertebrate Zoology, [BIOL 3144](#) Ornithology, [BIOL 3154](#) Mammalogy, [BIOL 3184](#) Animal Behavior, [BIOL 3224](#) Herpetology, [BIOL 4023](#) Immunology, [BIOL 4024](#) Limnology, [BIOL 4043](#) Conservation Genetics, [BIOL 4044](#) Dendrology, [BIOL 4054](#) Vertebrate Histology, [BIOL 4064](#) Evolutionary Biology, [BIOL 4124](#) Biological Assessment of Water Quality, [BIOL 4163](#) Biodiversity and Conservation Biology, [BIOL 4112](#) Biology Internship, [BIOL 4114](#) Biology Internship, [BIOL 4881](#) Advanced Topics in Biology, [BIOL 4882](#) Advanced Topics in Biology, [BIOL 4883](#) Advanced Topics in Biology, [BIOL 4884](#) Advanced Topics in Biology, [BIOL 4951](#) Undergraduate Research in Biology, [BIOL 4952](#) Undergraduate Research in Biology, [BIOL 4953](#) Undergraduate Research in Biology, [BIOL 4954](#) Undergraduate Research in Biology

⁵ At least 40 of the total hours required for graduate must be 3000-4000 level courses.