

**Addendum**  
**2+2 Degree Plan**  
**Associate of Science – Liberal Arts & Sciences – ASU – Beebe (60 credit hours)**  
**Bachelor of Environmental Science - ATU**

<b>Possible Prerequisites</b>			<b>Semester</b>	<b>Hours</b>
UNIV	1003	Principles of Academic Success (required if registering for a remedial course)		N/C
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

**Arkansas State University Beebe Courses (60 credit hours)**

**General Education Requirements (35 credit hours)**

<b>English/Communications (9 hours)</b>			<b>ATU equivalent</b>	<b>Semester</b>	<b>Hours</b>
ENG	1003	Freshman English I	ENGL 1013 Composition I		3
ENG	1013	Freshman English II	ENGL 1023 Composition II		3
SPCH	1203	Oral Communications	COMM 1003 Introduction to Speech*		3

\*Will allow COMM 1003 to substitute as COMM 2003 Public Speaking for ASU Beebe transfer students into ATU Environmental Science.

<b>Literature (3 hours)</b>			<b>ATU equivalent</b>	<b>Semester</b>	<b>Hours</b>
ENG	2003	World Literature I OR	ENGL 2003 Introduction to World Lit.		3
ENG	2013	World Literature II	GEHM 2XXX Gen Ed Humanities		3

<b>Arts and Humanities (3 hours)</b>			<b>ATU equivalent</b>	<b>Semester</b>	<b>Hours</b>
ART	2503	Fine Arts – Visual OR	ART 2123 Experiencing Art		3
MUS	2503	Fine Arts – Music OR	MUS 2003 Introduction to Music		3
THEA	2503	Fine Arts - Theater	TH 2273 Introduction to Theater		3

<b>U.S. History/Government (3 hours)</b>			<b>ATU equivalent</b>	<b>Semester</b>	<b>Hours</b>
HIST	2763	The U.S. to 1876 OR	HIST 2003 U.S. History to 1877		3
HIST	2773	The U.S. since 1876 OR	HIST 2013 U.S. History since 1877		3
POSC	2103	Intro to US Government	POLS 2003 American Government		3

<b>World History (3 hours)</b>			<b>ATU equivalent</b>	<b>Semester</b>	<b>Hours</b>
HIST	1013	World Civilization to 1660 OR	HIST 1503 World Civilization to 1660		3
HIST	1023	World Civilization since 1660	HIST 1513 World Civilization since 1660		3

<b>Math (3 hours)</b>			<b>ATU equivalent</b>	<b>Semester</b>	<b>Hours</b>
MATH	1023	College Algebra	MATH 1113 College Algebra		3

Social Science (3 hours)			ATU equivalent	Semester	Hours
SOC	2213	Principles of Sociology	SOC 1003 Principles of Sociology		3

Lab Science (8 hours)			ATU equivalent	Semester	Hours
BIOL	1014	Principles of Biology	BIOL 1114 Principles of Biology		4
CHEM	1014	General Chemistry I	CHEM 2124 General Chemistry I and CHEM 2120 General Chemistry I Lab		4

#### Liberal Arts & Science Electives (25 credit hours)

Electives			ATU equivalent	Semester	Hours
BOT	1104	General Botany	BIOL 2134 Principles of Botany		4
ZOOL	1204	Principles of Zoology	BIOL 2124 Principles of Zoology		4
CHEM	1024	General Chemistry II	CHEM 2134 General Chemistry II and CHEM 2130 General Chemistry II Lab		4
ESCI	1004	Intro. to Environmental Science	ENVS 1004 Principles of Environmental Sci.		4
MATH	2233	Applied Statistics	MATH 2163 Intro. to Statistical Methods		3
ECON	2313	Principles of Macroeconomics	ECON 2003 Principles of Economics I		3
GEOG	1233	Introduction to GIS	GEOG 2833 Introduction to GIS		3

#### Arkansas Tech University Courses (60-61 credit hours)

GEOL	1014	Physical Geology		4
BIOL	3114 or 4094	Principles of Ecology OR Coastal Ecology		4
PHYS	2014/2000	Physical Principles I		4
CHEM	3254	Fundamentals of Organic Chemistry		4
CHEM	3264	Mechanistic Organic Chemistry		4
ENVS	3043	Conservation		3
ENVS	3111	Environmental Seminar		3
ENVS	4133	Environmental Policy		3
MATH	Elective <sup>1</sup>	Math Elective (FW 3173 Biostatistics or MATH 2914 Calculus I)		3-4
	Elective <sup>2</sup>	Life Science Electives		7
	Elective <sup>3</sup>	Physical Science Elective (without a Lab)		3
	Elective <sup>4,8</sup>	Physical Science Elective (with a Lab)		4
	Elective <sup>5</sup>	Field Biology Elective		4
	Elective <sup>6</sup>	GIS and Research Electives		4
	Elective <sup>7,8</sup>	Human Dimensions Electives		6

\*Waive ATU BIOL 1011 Orientation to Biological Sciences for ASU-Beebe transfer students into ATU Environmental Science.

<sup>1</sup>Mathematics elective above MATH 1113 College Algebra to include FW 3173 Biostatistics or MATH 2914 Calculus I.

<sup>2</sup>Take two Life Science Elective courses from the following: BIOL 3004: Plant Taxonomy, BIOL 3034: Genetics, BIOL 3054: Microbiology, BIOL 3064: Parasitology, BIOL/FW 3084: Ichthyology, BIOL/AGPM 3104: Introduction to Entomology, BIOL 3134: Invertebrate Zoology, BIOL/FW 3144: Ornithology, BIOL 3174: Physiological Ecology, BIOL/FW 3224: Herpetology, BIOL 4064: Evolutionary Biology, BIOL/FW 4163: Biodiversity and Conservation Biology.

<sup>3</sup>Take one Physical Science without Laboratory Elective course from the following: BIOL/CHEM 3353: Fundamentals of Toxicology, CHEM 3313: Environmental Chemistry, GEOL 3083: Hydrogeology, GEOL 3153: Environmental Geology, PHSC 3033: Meteorology.

<sup>4</sup>Take one Physical Science with Laboratory Elective course from the following: CHEM 3245: Quantitative Analysis, CHEM 4414: Instrumental Analysis, PHYS 2024: Physical Principles II

<sup>5</sup>Take one Field Biology course from the following: BIOL/FW 4024: Limnology, BIOL 4094: Coastal Ecology, ENVS 4124: Biological Assessment of Water Quality, FW 4014: Forest Ecology and Management, FW 4064: Wetland Ecology Management.

<sup>6</sup>Take one GIS and Research courses from the following: ENVS 4114: Environmental Science Internship, ENVS 4884: Advanced Topics in Environmental Science, ENVS 4954: Undergraduate Research in Environmental Science, FW 3074: Habitat Evaluation, FW 4034: Geographic Information Systems in Natural Resources.

<sup>7</sup>Take two Human Dimension courses from the following: ANTH 2003: Cultural Anthropology, ANTH 2103: Ozark-Ouachita Studies, ANTH 2303: Globalization, SOC 3033: Environment and Society, SOC 3113: Social Movements and Social Change, or FW 4103: Human Dimensions of Fisheries and Wildlife Management.

<sup>8</sup>Sufficient courses at 3000-4000 level to constitute a minimum total of 40 hours. Total number of hours overall for bachelor degree must be a minimum of 120 hours.



Chief Academic Officer  
Arkansas Tech University

10/23/17

Date



Chief Academic Officer  
Arkansas State University – Beebe

11/15/17

Date