



2+2 Degree Plan
Associate of Science Liberal Arts and Science- ASU Beebe
Bachelor of Science Biology - ATU
Options: Biomedical, Biostatistics, Ecology and Evolution
Environmental
2024-25



ASU Beebe (60 credit hours)

General Education Core – 35 hours

University Requirement (1-3 hours)			ATU equivalent	Hours
UNIV	1001	Principles of Academic Success*	Elective Credit	1
UNIV	1003	Principles of Academic Success	Elective Credit	3

*Students enrolled in remedial courses are not eligible for this course.

English/Communications (9 hours)			ATU equivalent	Hours
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 2003 Public Speaking	3

Math (3 hours)			ATU equivalent	Hours
MATH	1023	College Algebra*	MATH 1113 College Algebra	3

*required to satisfy MATH requirements for transfer to ATU.

U.S. History/Government (3 hours)			ATU equivalent	Hours
POSC	2103	Introduction to U.S. Government <i>or</i>	POLS 2003 American Government	3
HIST	2763	The United States to 1876 <i>or</i>	HIST 2003 U. S. History to 1877	
HIST	2773	The United States since 1876	HIST 2013 U.S. History since 1877	

World History (3 hours)			ATU equivalent	Hours
HIST	1013	World Civilization to 1660 <i>or</i>	HIST 1503 World History to 1500	3
HIST	1023	World Civilization since 1660	HIST 1513 World History since 1500	

Fine Arts & Humanities (3 hours)			ATU equivalent	Hours
ART	2503	Fine Arts – Visual <i>or</i>	ART 2123 Experiencing Art	3
MUS	2503	Fine Arts – Musical <i>or</i>	MUS 2003 Introduction to Music	
THEA	2503	Fine Arts – Theatre <i>or</i>	TH 2273 Introduction to Music	
THEA	2513	Fine Arts – Film <i>or</i>	JOUR/ENGL 2173 Introduction to Film	
HUM	2003	Intro to Humanities I: Greece & Rome <i>or</i>	GEHM 2xxx Gen. Ed. Humanities Credit	
HUM	2013	Intro to Humanities II: Europe	GEHM 2xxx Gen. Ed. Humanities Credit	

Literature (3 hours)			ATU equivalent	Hours
ENG	2003	World Literature I <i>or</i>	ENGL 2003 Intro. to World Literature	3
ENG	2013	World Literature II <i>or</i>	GEHM 2xxx Gen. Ed. Humanities Credit	
PHIL	1103	Introduction to Philosophy	PHIL 2003 Introduction to Philosophy	

Social Sciences (3 hours)			ATU equivalent	Hours
SOC	2213	Principles of Sociology <i>or</i>	SOC 1003 Introductory Sociology <i>or</i>	3
PSY	2013	Introduction to Psychology	PSY 2003 General Psychology	

Physical and Life Science (8 hours)**ATU equivalent**

BIOL ESCI	1014 1004	Principles of Biology or Introduction to Environmental Science*	BIOL 1114 Principles of Biology ENVS 1004 Principles of Environmental Science	4
CHEM	1014	General Chemistry I	CHEM 2124 General Chemistry I	4

*ESCI 1004 should be taken by students planning to transfer into the environmental option at ATU.

ASU Beebe**Associates Degree Requirements & Electives (25 credit hours)****ASU Beebe Course****ATU equivalent****Hours**

CHEM	1024	General Chemistry II	CHEM 2134 General Chemistry II and CHEM 2130 General Chemistry II Lab	4
BOT	1104	General Botany	BIOL 2134 Principles of Botany	4
CHEM	2104	Organic Chemistry I w/lab	CHEM 3254 Fundamentals of Organic Chemistry (LD)	4
CHEM	2114	Organic Chemistry II w/lab	CHEM 3264 Mechanistic Organic Chemistry (LD)	4
ZOOL	1204	Principles of Zoology	BIOL 2124 Principles of Zoology	4
		Directed Elective*	Elective	2
		Social Science Elective <i>*recommended for transfer to ATU</i>	SS XXXX Social Science Elective	3

*students are encouraged to take a 3-hour MATH or 4-hour BIOL course to satisfy course requirements at ATU.

Arkansas Tech University Courses (see options below)

		Biomedical Option (60-62 hours)	
BIOL	1011	Orientation to Biological Sciences	Waive
STAT	2163	Introduction to Statistical Methods or	3
PSY/SOC	2053	Statistics for Behavioral Sciences or Statistics	
BIOL	2014	Human Anatomy	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
		Physics Laboratory II	
BIOL	3034	Genetics	4
BIOL	3054	Microbiology	4
BIOL	3074	Human Physiology	4
BIOL	4033	Cell Biology	3
CHEM	3344	Principles of Biochemistry	4
		Psychology Elective (3000-4000)	3
BIOL	3114	Principles of Ecology or	4
BIOL	4094	Coastal Ecology	
CHEM	3254	Fundamentals of Organic Chemistry	4
BIOL	4891	Seminar in Biology	1
		Biomedical Elective	6-8
		Mathematics or Statistics Elective	3
		Electives	5

		Biostatistics Option (60 hours)	
BIOL	1011	Orientation to Biological Sciences	Waive
STAT	2163	Introduction to Statistical Methods	3
PHYS PHYS	2014 2000	Algebra-Based Physics I <i>and</i> Physics Laboratory I	4
PHYS	2024	Algebra-Based Physics II <i>and</i> Physics Laboratory II	4
STAT	2304	Programming Languages for Data Sciences	4
BIOL	3054	Microbiology	4
STAT	3113	Regression Analysis	3
BIOL	3034	Genetics	4
STAT	4153	Experimental Design and Analysis	3
BIOL	3033	Bioinformatics	3
BIOL BIOL	3114 4094	Principles of Ecology <i>or</i> Coastal Ecology	4
BIOL	4891	Seminar in Biology	1
		Elective	2
		Biology Elective	15
		Statistics Elective	6
		Ecology and Evolution Option (60-64 Hours)	
BIOL	1011	Orientation to Biological Sciences	Waive
STAT PSY/SOC	2163 2053	Introduction to Statistical Methods <i>or</i> Statistics for Behavioral Sciences or Statistics	3
PHYS PHYS	2014 2000	Algebra-Based Physics I <i>and</i> Physics Laboratory I	4
PHYS	2024	Algebra-Based Physics II <i>and</i> Physics Laboratory II	4
BIOL	3034	Genetics	4
BIOL	3054	Microbiology	4
BIOL/FW	3114	Principles of Ecology	4
BIOL	4891	Seminar in Biology	1
		Mathematics or Statistics Elective	3
		Physiology Elective	4
		Organismal Elective	4
		Biology Electives	10-12
		Cell or Molecular Elective	3-4
		Electives	12
		Environmental Option (60-64 hours)	
BIOL	1011	Orientation to Biological Sciences	Waive
STAT PSY/SOC	2163 2053	Introduction to Statistical Methods <i>or</i> Statistics for Behavioral Sciences or Statistics	3
PHYS PHYS	2014 2000	Algebra-Based Physics I <i>and</i> Physics Laboratory I	4
PHYS	2024	Algebra-Based Physics II <i>and</i> Physics Laboratory II	4
BIOL	3034	Genetics	4
BIOL	3043	Conservation	3
BIOL	3054	Microbiology	4
GEOL	1014	Physical Geology	4

		Environmental Science Elective	3-4
		Major Support Elective	6-8
		Mathematics or Statistics Elective	3
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	11-12
		Elective	2