



**2+2 Degree Plan**  
**Associate of Science Liberal Arts and Science- ASU Beebe**  
**Bachelor of Science (Biology General Option) – ATU**  
**2023-24 Catalog**



**ASU Beebe (60 credit hours)**

General Education Core – 35 hours

<b>University Requirement (1-3 hours)</b>			<b>ATU equivalent</b>	<b>Hours</b>
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.

<b>English/Communications (9 hours)</b>			<b>ATU equivalent</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 2003 Public Speaking	3

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

\*required to satisfy environmental science degree requirements at ATU.

<b>U.S. History/Government (3 hours)</b>			<b>ATU equivalent</b>	<b>Hours</b>
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	

<b>World History (3 hours)</b>			<b>ATU equivalent</b>	<b>Hours</b>
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	

<b>Fine Arts &amp; Humanities (3 hours)</b>			<b>ATU equivalent</b>	<b>Hours</b>
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	

<b>Literature (3 hours)</b>			<b>ATU equivalent</b>	<b>Hours</b>
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	

<b>Social Sciences (3 hours)</b>			<b>ATU equivalent</b>	<b>Hours</b>
		<i>Select one course not already taken from HIST, SOC, POSC, ECON, PSY, or GEOG*</i>	SS 1XXX Social Science Credit	3

\*See Arkansas Course Transfer System (ADHE-ACTS) for transferrable social science courses.

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

BIOL	1014	Principles of Biology	BIOL 1114 Principles of Biology	4
CHEM	1014	General Chemistry I	CHEM 2124 General Chemistry I	4

**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	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	3-4
		Physical Education Elective	Physical Activity Elective Credit	2

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

**Arkansas Tech University Courses (60-64 credit hours)**

BIOL	1011	Orientation to Biological Sciences <sup>1</sup>	Waive
BIOL COMS	3033	Bioinformatics or COMS elective	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/FW	3114	Principles of Ecology <sup>2</sup>	4
CHEM	3254	Fundamentals of Organic Chemistry	4
BIOL	4891	Seminar in Biology	1
		Math Elective	3
		Biology Elective	7-8
		Biology Elective <sup>4</sup> (3000-4000 level)	7-8
		Physiology or Cellular Elective <sup>4</sup>	6-8
		Electives <sup>5</sup>	9-13

<sup>1</sup>Waive BIOL 1011 for ASUB transfer students.

<sup>2</sup>BIOL 4094 Coastal Ecology which is offered during the May mini-term can serve as an alternative to BIOL 3114 Principles of Ecology in the Biology major.

<sup>3</sup>See appropriate alternatives or substitutions in "General Education Requirements"

<sup>4</sup>The physiology choices include: BIOL 3074 Human Physiology, BIOL 3174 Physiological Ecology; whereas, choices in the area of cell or molecular biology include: BIOL 4033 Cell Biology, BIOL 4074 Molecular Genetics, BIOL 3054 Microbiology, BIOL 4023 Immunology. One in each area is required. Other alternatives must be approved by your advisor and Department Head. Each 3-hour selection in one of these areas must be balanced by 4-hours (rather than 3-hours) of biology electives.

<sup>5</sup>Sufficient courses at 3000-4000 level to constitute a total of 40 hours. At least 2 credit-hours of biology research or internship is recommended (BIOL 4112 Biology Internship-4 or BIOL 4951 Undergraduate Research in Biology-4).