



**2+2 Degree Plan Checklist**  
**Associate of Science in Liberal Arts and Sciences**  
**BS in Mathematics (Applied Mathematics)**



**Arkansas State University - Beebe<sup>1</sup>**  
**Associate of Science in Liberal Arts and Sciences<sup>2</sup>**

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

<b>English/Communication (12 credit hours)</b>			<b>UCA<sup>3</sup></b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
ENG	1003	Freshman English I	WRTG 1310		3	
ENG	1013	Freshman English II	WRTG 1320		3	
SPCH	1203	Oral Communications	COMM 1300		3	
<b>Choose one:</b>						
ENG	2003	World Literature to 1660	ENGL 2305		3	
ENG	2013	World Literature since 1660	ENGL 2306			
PHIL	1103	Introduction to Philosophy	PHIL 1301			
<b>Mathematics (3 credit hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
MATH	1023	College Algebra	MATH 1390		3	
<b>Lab Sciences (8 credit hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
BIOL	1004	Biology for General Education <i>(or other ASLAS Life Science with Lab)</i>	BIOL 1400		4	
PHSC	1204	Physical Science <i>(or other ASLAS Physical Science with Lab)</i>	PHYS 1400		4	
<b>Fine Arts (3 credit hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
<b>Choose one:</b>						
ART	2503	Fine Arts - Visual	ART 2300		3	
MUS	2503	Fine Arts - Musical	MUS 2300			
THEA	2503	Fine Arts – Theatre <i>(or other ASLAS Fine Arts)</i>	THEA 2300			
<b>Social Sciences (6 credit hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
<b>Choose one:</b>						
HIST	2763	The United States to 1876	HIST 2301		3	
HIST	2773	The United States since 1876	HIST 2302			
POSC	2103	Introduction to United States Government	PSCI 1330			
<b>Choose one:</b>						
HIST	1013	World Civilization to 1660	HIST 1310		3	
HIST	1023	World Civilization since 1660	HIST 1320			
<b>Social or Behavioral Science Elective (3 credit hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
<b>Choose one:</b>						
PSY	2013	Introduction to Psychology	PSYC 1300		3	
SOC	2213	Principles of Sociology <i>(or other ASLAS Social Science)</i>	SOC 1300			

**Mathematics Foundation & Ancillary Program Requirement (25 credit hours)**

			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
MATH	1033	Plane Trigonometry	MATH 1392		3	
MATH	2205	Calculus I	MATH 1496		5	
MATH	2215	Calculus II	MATH 1497		5	
<b>Choose one of the two-course combinations listed below:</b>						
ECON	2313	Principles of Macroeconomics	ECON 2320		6-8	
ECON	2323	Principles of Microeconomics	ECON 2321			
CHEM	1014	General Chemistry I	CHEM 1450		6-8	
CHEM	1024	General Chemistry II	CHEM 1451			
PHYS	2054	General Physics I	PHYS 1410			
PHYS	2064	General Physics II	PHYS 1420		4-6	
PHYS	2074	University Physics I	PHYS 1441			
PHYS	2084	University Physics II	PHYS 1442			
<i>ASLAS Approved Electives</i>					4-6	

**Total Hours: 60<sup>4</sup>**



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**University of Central Arkansas**  
**Bachelor of Science in Mathematics (Applied Mathematics)**  
**UCA Courses (60 credit hours)<sup>5</sup>**

			Semester	Hours	Grade
MATH	2335	Transition to Advanced Mathematics		3	
MATH	2341	Introduction to Mathematical Computation		3	
MATH	2471	Calculus III		4	
MATH	3311	Statistical Methods		3	
MATH	3320	Linear Algebra (UD UCA Core: I)		3	
MATH	3331	Ordinary Differential Equations I (UD UCA Core: C)		3	
MATH	4306	Modeling & Simulation (UD UCA Core: Z)		3	
		<b>Choose One:</b>			
MATH	4315	Introduction to Partial Differential Equations		3	
MATH	4340	Numerical Methods			
MATH	4373	Regression Analysis			
MATH	4371	Introduction to Probability (UD UCA Core: R)		3	
		Math Major Elective (4000 Level - From Approved List - See Advisor)		3	
		Math Major Elective (4000 Level - From Approved List - See Advisor)		3	
		Upper Division Minor Field Course (UD UCA Core: D)		3	
		Upper Division Minor Field Course		3	
		Upper Division Minor Field Course		3	
		Upper Division Minor Field Course		3	
		Upper Division Minor Field Course		3	
		Upper Division Minor Field Course		3	
		Upper Division Minor Field Course		3	
		Minor Field Course		3	
		Minor Field Course		3	
		General Elective		2	

**Total Hours: 120<sup>6</sup>**

<sup>1</sup> Please see your ASUB advisor for degree and graduation information.

<sup>2</sup> Agreement requirements are guaranteed in accordance with the academic year of initial enrollment at ASUB, not to precede the academic year during which the agreement first took effect. A period of non-enrollment of 12 months or more requires that the student adhere to the agreement revision corresponding with the academic year of re-enrollment.

<sup>3</sup> UCA course is either guaranteed by ACTS (acts.adhe.edu) or by UCA Department Chair approval (if blank, elective credit will be awarded).

<sup>4</sup> Students completing the AS in Liberal Arts and Sciences degree requirements, as shown above, with a minimum 2.0 cumulative GPA, will have satisfied the UCA Lower-Division Core and will be admitted to the BS in Mathematics (Applied Mathematics) degree program as a junior.

<sup>5</sup> In order to receive important communications about transferring to UCA, students are encouraged to create a UCA student account at [admissions.uca.edu/apply/](https://admissions.uca.edu/apply/). For more information about the 2+2 program, students may also send email inquiries to [ucatransfer@uca.edu](mailto:ucatransfer@uca.edu).

<sup>6</sup> This agreement requires 120 credit hours as follows: maximum 60 at ASUB and remaining 60 at UCA (40 of which must be upper-division).