



2+2 Degree Plan Checklist

Associate of Science in Liberal Arts and Sciences BS in Mathematics (Applied Mathematics)



Arkansas State University – Beebe¹ Associate of Science in Liberal Arts and Sciences²

Possible Prerequisites			Semester	Hours	Grade
UNIV	1003	Principles of Academic Success (required if registering for a remedial course)		(3)	
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	

General Education Requirements (35 credit hours)

English/Communication (12 credit hours)			UCA ³	Semester	Hours	Grade
ENG	1003	Freshman English I	WRTG 1310		3	
ENG	1013	Freshman English II	WRTG 1320		3	
SPCH	1203	Oral Communications	COMM 1300		3	
ENG	2003	World Literature I or	ENGL 2305		3	
ENG	2013	World Literature II	ENGL 2306			

Mathematics (3 credit hours)			UCA	Semester	Hours	Grade
MATH	1023	College Algebra	MATH 1390		3	

Lab Sciences (8 credit hours)			UCA	Semester	Hours	Grade
BIOL	1004	Biology for General Education (or other ASLAS Life Science with Lab)	BIOL 1400		4	
PHSC	1204	Physical Science (or other ASLAS Physical Science with Lab)	PHYS 1400		4	

Fine Arts (3 credit hours)			UCA	Semester	Hours	Grade
ART	2503	Fine Arts – Visual or	ART 2300		3	
MUS	2503	Fine Arts – Musical or	MUS 2300			
THEA	2503	Fine Arts – Theatre or (or other ASLAS Fine Arts)	THEA 2300			

Social Sciences (6 credit hours)			UCA	Semester	Hours	Grade
HIST	2763	The United States to 1876 or	HIST 2301		3	
HIST	2773	The United States Since 1876 or	HIST 2302			
POSC	2103	Introduction to United States Government	PSCI 1330			
HIST	1013	World Civilization to 1660 or	HIST 1310		3	
HIST	1023	World Civilization since 1660	HIST 1320			

Social or Behavioral Science Elective (3 credit hours)			UCA	Semester	Hours	Grade
GEOG	2613	Introduction to Geography or	GEOG 1305		3	
GEOG	2603	World Regional Geography or	GEOG 1300			
SOC	2213	Principles of Sociology or	SOC 1300			
PSY	2013	Introduction to Psychology	PSYC 1300			
		(or other ASLAS Social Science)				

Mathematics Foundation & Ancillary BS Requirement (25 credit hours)⁴

			UCA	Semester	Hours	Grade
ECON	2313	Principles of Macroeconomics ⁴	ECON 2320		3	
ECON	2323	Principles of Microeconomics ⁴	ECON 2321		3	
MATH	1033	Plane Trigonometry	MATH 1392		3	
MATH	2205	Calculus I	MATH 1496		5	
MATH	2215	Calculus II	MATH 1497		5	
		ASLAS Approved Elective			3	
		ASLAS Approved Elective			3	

Total Hours: 60⁵



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University of Central Arkansas Bachelor of Science in Mathematics (Applied Mathematics) UCA Courses (60 credit hours)⁶

			Semester	Hours	Grade
MATH	2335	Transition to Advanced Mathematics		3	
MATH	2441	Mathematical Computation		4	
MATH	2471	Calculus III		4	
MATH	3320	Linear Algebra (UD Core: I)		3	
MATH	3311	Statistical Methods		3	
MATH	3331	Ordinary Differential Equations (UD Core: C)		3	
MATH	4306	Modeling and Simulation (UD Core: Z)		3	
		Choose one:			
MATH	4315	Introduction to Partial Differential Equations		3	
MATH	4340	Numerical Methods			
MATH	4373	Regression Analysis			
MATH	4371	Introduction to Probability (UD Core: R)		3	
		Math Major Elective (4000 Level – from Approved List – See your Advisor)		3	
		Math Major Elective (4000 Level – from Approved List – See your Advisor)		3	
		Upper Division Minor Field Course (UD 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		1	

Total Hours: 120⁷

¹ Please see your ASUB advisor for degree and graduation information.

² 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.

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

⁴ The following course combinations will also satisfy the ancillary BS requirement (general elective credit hours may need to be adjusted based upon the courses chosen - please see your advisor if you have questions about this requirement):

- PHYS 2074 (UCA: PHYS 1441) and PHYS 2084 (UCA: PHYS 1442) **or**
- PHYS 2054 (UCA: PHYS 1410) and PHYS 2064 (UCA: PHYS 1420) **or**
- CHEM 1014 (UCA: CHEM 1450) and CHEM 1024 (UCA: CHEM 1451)

⁵ 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 be admitted to the BS in Mathematics (Applied Mathematics) degree program as a junior.

⁶ In order to receive important communications about transferring to UCA, students are encouraged to create a UCA student account at gopurple.uca.edu. For more information about the 2+2 program, students may also send email inquiries to ucatransfer@uca.edu.

⁷ This agreement requires 120 credit hours as follows: maximum 60 at ASUB and remaining 60 at UCA (40 of which must be upper-division).