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

Arkansas State University - Beebe[1]
Associate of Science in Liberal Arts and Sciences[2]

Possible Prerequisites				Semester	Hours	Grade
UNIV	1003	Principles of Academic Success III (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	0112	Review for College Algebra (taken with MATH 1023 – College Algebra)			N/C	
MATH	0123	Pre-College Algebra			N/C	
MATH	0042	Review for Quantitative Literacy (taken with MATH 1043 – Quantitative Literacy)			N/C	

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	
		Choose one:				
ENG	2003	World Literature I	ENGL 2305		3	
ENG	2013	World Literature II	ENGL 2306			
PHIL	1103	Introduction to Philosophy	PHIL 1301			

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
		Choose one:				
ART	2503	Fine Arts - Visual	ART 2300		3	
MUS	2503	Fine Arts - Musical	MUS 2300			
THEA	2503	Fine Arts – Theatre *(or other ASLAS Fine Arts)*	THEA 2300			

Social Sciences (6 credit hours)			UCA	Semester	Hours	Grade
		Choose one:				
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			
		Choose one:				
HIST	1013	World Civilization to 1660	HIST 1310		3	
HIST	1023	World Civilization since 1660	HIST 1320			

Social or Behavioral Science Elective (3 credit hours)			UCA	Semester	Hours	Grade
		Choose one:				
PSY	2013	Introduction to Psychology	PSYC 1300		3	
SOC	2213	Principles of Sociology *(or other ASLAS Social Science)*	SOC 1300			

Mathematics Foundation & Ancillary BS Requirement (25 credit hours)

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

uca.edu/2plus2

Total Hours: 60[4]   Revised: AY 20

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

University of Central Arkansas
Bachelor of Science in Mathematics (Applied Mathematics)
UCA Courses (60 credit hours)[5]

			Semester	Hours	Grade
MATH	2335	Transition to Advanced Mathematics		3	
MATH	2441	Introduction to Mathematical Computation		4	
MATH	2471	Calculus III		4	
MATH	3320	Linear Algebra (UD UCA Core: I)		3	
MATH	3311	Statistical Methods		3	
MATH	3331	Ordinary Differential Equations I (UD UCA Core: C)		3	
MATH	4306	Modeling & Simulation (UD UCA 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 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	
		Minor Field Course		3	
		Minor Field Course		3	
		General Elective		1	

Total Hours: 120[6]