2+2 Degree Plan Checklist
Associate of Science in STEM
BS in Mathematics (Applied Mathematics)

University of Arkansas Community College at Batesville[1]

Associate of Science in STEM[2]

Possible Prerequisites			Semester	Hours	Grade
MTH	0203	Essentials of Math		N/C	
ENG	0023	Integrated Reading/Writing		N/C	

General Education Requirements (35 credit hours)

English/Communication (9 credit hours)			UCA[3]	Semester	Hours	Grade
ENG	1103	English Composition I	WRID 1310		3	
ENG	1203	English Composition II	WRID 1320		3	
SPC	1003	Oral Communication	COMM 1300		3	

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

Lab Sciences (8 credit hours)			UCA	Semester	Hours	Grade
BIO	1103/01	Biology for Majors and Lab	BIOL 1440		4	
PHS	2014	Physics for Health Sciences	PHYS 1410		4	

Fine Arts/Humanities (6 credit hours)			UCA	Semester	Hours	Grade
		Choose one:				
FAV	2023	Fine Arts - Visual Art	ART 2300		3	
FAM	2003	Fine Arts - Music	MUS 2300			
FAT	2013	Fine Arts - Theatre	THEA 2300			
		Choose one:				
ENG	2113	World Literature I	ENGL 2305		3	
ENG	2213	World Literature II	ENGL 2306			
PHI	1003	Introduction to Philosophy	PHIL 1301			

Social Sciences (6 credit hours)			UCA	Semester	Hours	Grade
		Choose one:				
HIS	2003	United States History I	HIST 2301		3	
HIS	2013	United States History II	HIST 2302			
POS	2103	United States Government	PSCI 1330			
		Choose one:				
HIS	1013	World Civilization I	HIST 1310		3	
HIS	1023	World Civilization II	HIST 1320			

Social or Behavioral Science Elective (3 Credit Hours)			UCA	Semester	Hours	Grade
		Choose one:				
PSY	1003	General Psychology	PSYC 1300		3	
SOC	2003	Principles of Sociology	SOC 1300			
		(or other AS STEM Social Science)				

Mathematics Foundation & Ancillary Program Requirement (25 credit hours)

			UCA	Semester	Hours	Grade
CHM	1103/01	College Chemistry I and Lab	CHEM 1450		4	
CHM	1123/21	College Chemistry II and Lab	CHEM 1451		4	
MTH	1013	Trigonometry	MATH 1392		3	
MTH	2004	Calculus I, Calculus & Analytic Geometry	MATH 1496		5	
MTH	2014	Calculus II, Calculus & Analytic Geometry	MATH 1497		5	
		AS STEM Approved Elective			3	
		AS STEM Approved Elective			1	

Total Hours: 60[4]

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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	2341	Introduction to Mathematical Computation		3	
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	
MATH MATH MATH	4315 4340 4373	**Choose one:** Introduction to Partial Differential Equations Numerical Methods Regression Analysis		3	
MATH	4371	Introduction to Probability (UD UCA 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 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		2	

Total Hours: 120[6]

[1] Please see your UACCB advisor for degree and graduation information.

[2] Agreement requirements are guaranteed in accordance with the academic year of initial enrollment at UACCB, not to precede theacademic year during which the agreement first took effect. A period of non-enrollment of 12 months or more requires that the studentadhere 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] Students completing the AS in STEM degree, as shown above, with a minimum 2.0 cumulative GPA, will have satisfied the UCA LowerDivision Core and will be admitted to the BS in Mathematics (Applied Mathematics) degree program as a junior.

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

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