



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



University of Arkansas Community College at Batesville¹
Associate of Science in STEM²

Possible Prerequisites				Semester	Hours	Grade
ENGL	191	Writing Studio			N/C	
ENGL	203	Integrated Reading/Writing			N/C	
MATH	131	Math Skills			N/C	
MATH	2043	Essentials of Math			N/C	

General Education Requirements (35 credit hours)

English/Communication (9 credit hours)				UCA ³	Semester	Hours	Grade
ENGL	10103	English Composition I		WRTG 1310		3	
ENGL	10203	English Composition II		WRTG 1320		3	
SPCH	10003	Oral Communication		COMM 1300		3	

Mathematics (3 credit hours)				UCA	Semester	Hours	Grade
MATH	11003	College Algebra		MATH 1390		3	

Lab Sciences (8 credit hours)				UCA	Semester	Hours	Grade
BIOL	10143/31	Biology for Majors and Lab		BIOL 1440		4	
PHYS	20104	Physics for Health Sciences		PHYS 1410		4	

Fine Arts/Humanities (6 credit hours)				UCA	Semester	Hours	Grade
ARHS	10003	<u>Choose one:</u> Fine Arts - Visual Art		ART 2300		3	
MUSC	10003	Fine Arts - Music		MUS 2300			
THTR	10003	Fine Arts - Theatre		THEA 2300			
ENGL	21103	<u>Choose one:</u> World Literature I		ENGL 2305		3	
ENGL	21203	World Literature II		ENGL 2306			
PHIL	11003	Introduction to Philosophy		PHIL 1301			

Social Sciences (6 credit hours)				UCA	Semester	Hours	Grade
HIST	21103	<u>Choose one:</u> United States History I		HIST 2301		3	
HIST	21203	United States History II		HIST 2302			
PLSC	20003	United States Government		PSCI 1330			
HIST	11103	<u>Choose one:</u> World Civilization I		HIST 1310		3	
HIST	11203	World Civilization II		HIST 1320			

Social or Behavioral Science Elective (3 Credit Hours)				UCA	Semester	Hours	Grade
PSYC	11003	<u>Choose one:</u> General Psychology		PSYC 1300		3	
SOCI	10103	Principles of Sociology (or other AS STEM Social Science)		SOC 1300			

Mathematics Foundation & Ancillary Program Requirement (25 credit hours)

				UCA	Semester	Hours	Grade
CHEM	14103/01	College Chemistry I and Lab		CHEM 1450		4	
CHEM	14203/01	College Chemistry II and Lab		CHEM 1451		4	
MATH	12003	Trigonometry		MATH 1392		3	
MATH	24005	Calculus I, Calculus & Analytic Geometry		MATH 1496		5	
MATH	25005	Calculus II, Calculus & Analytic Geometry		MATH 1497		5	
		AS STEM Approved Elective				3	
		AS STEM Approved Elective				1	

Total Hours: 60⁴



2+2 Degree Plan Checklist
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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	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	4315	Choose one: 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 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	
		Upper Division Minor Field Course		3	
		Minor Field Course		3	
		Minor Field Course		3	
		General Elective		2	
Total Hours:				120⁶	

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 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 Students completing the AS in STEM degree, 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.

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).