

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

University of Arkansas-Pulaski Technical College¹
Associate of Science in Liberal Arts and Sciences²

General Education Requirements (35 credit hours)

English/Communication (9 credit hours)			UCA³	Semester	Hours	Grade
ENGL	1311	English Composition I	WRTG 1310		3	
ENGL	1312	English Composition II	WRTG 1320		3	
SPCH	1300	Speech Communications	COMM 1300		3	
Mathematics (3 credit hours)			UCA	Semester	Hours	Grade
MATH	1302	College Algebra	MATH 1390		3	
Lab Sciences (8 credit hours)			UCA	Semester	Hours	Grade
BIOL	1100/1300	Biology for Non-Majors and Lab (or other ASLAS Life Science with Lab)	BIOL 1400		4	
PHYS	1100/1300	Physical Science and Lab (or other ASLAS Physical Science with Lab)	PHYS 1400		4	
Arts and Humanities (3 credit hours)			UCA	Semester	Hours	Grade
ARTS	2300	Choose one: Introduction to Visual Art	ART 2300		3	
MUSC	2300	Introduction to Music	MUS 2300			
THEA	2300	Introduction to Theatre (or other ASLAS Arts and Humanities)	THEA 2300			
Literature (3 credit hours)			UCA	Semester	Hours	Grade
ENGL	2337	Choose one: World Literature from the Beginning to 1650	ENGL 2305		3	
ENGL	2338	World Literature from 1650 to the Present (or other ASLAS Literature)	ENGL 2306			
History/Government (3 Credit Hours)			UCA	Semester	Hours	Grade
HIST	2311	Choose one: US History to 1877	HIST 2301		3	
HIST	2312	US History since 1877	HIST 2302			
POLS	1310	American National Government	PSCI 1330			
Social Science (6 credit hours)			UCA	Semester	Hours	Grade
PSYC	2300	Choose two: Psychology and the Human Experience	PSYC 1300		6	
GEOG	2310	Cultural Geography	GEOG 1320			
SOCI	2300	Introduction to Sociology (or other ASLAS Social Science)	SOC 1300			

Mathematics Foundation & Ancillary Program Requirement (25 credit hours)

			UCA	Semester	Hours	Grade
MATH	1303	Trigonometry	MATH 1392		3	
MATH	1404	Calculus I	MATH 1496		4	
MATH	1405	Calculus II	MATH 1497		4	
ECON	2322	Choose one of the course combinations listed below: Principles of Microeconomics	ECON 2321		6-8	
ECON	2323	Principles of Macroeconomics	ECON 2320			
CHEM	1105/1305	General Chemistry 1 and Lab	CHEM 1450			
CHEM	1106/1306	General Chemistry 2 and Lab	CHEM 1451			
CIS	2514	Introduction to Computer Science I	CSCI 1470			
CIS	2644	Introduction to Computer Science II	CSCI 1480			
PHYS	1102/1302	College Physics 1 and Lab	PHYS 1410			
PHYS	1103/1303	College Physics 2 and Lab	PHYS 1420			
PHYS	1105/1305	Advanced College Physics I and Lab	PHYS 1441			
PHYS	1106/1306	Advanced College Physics II and Lab	PHYS 1442			
		ASLAS Approved Electives			6-8	

Total Hours: 60⁴

2+2 Degree Plan Checklist
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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	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: 120⁶

¹ Please see your UA-PTC advisor for degree and graduation information.

² Agreement requirements are guaranteed in accordance with the academic year of initial enrollment at UA-PTC, 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 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.

⁵ 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.

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