



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	WRWG 1310		3	
ENGL	1312	English Composition II	WRWG 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 <i>(or other ASLAS Life Science with Lab)</i>	BIOL 1400		4	
PHYS	1100/1300	Physical Science and Lab <i>(or other ASLAS Physical Science with Lab)</i>	PHYS 1400		4	

Arts and Humanities (3 credit hours)			UCA	Semester	Hours	Grade
ARTS	2300	Choose one: Introduction to Visual Arts Introduction to Music Introduction to Theatre <i>(or other ASLAS Arts and Humanities)</i>	ART 2300		3	
MUSC	2300		MUS 2300			
THEA	2300		THEA 2300			

Literature (3 credit hours)			UCA	Semester	Hours	Grade
ENGL	2337	Choose one: World Literature from the Beginning to 1650 World Literature from 1650 to the Present <i>(or other ASLAS Literature)</i>	ENGL 2305		3	
ENGL	2338		ENGL 2306			

History/Government (3 Credit Hours)			UCA	Semester	Hours	Grade
HIST	2311	Choose one: US History to 1877 US History since 1877 American National Government	HIST 2301		3	
HIST	2312		HIST 2302			
POLS	1310		PSCI 1330			

Social Science (6 credit hours)			UCA	Semester	Hours	Grade
PSYC	2300	Choose two: Psychology and the Human Experience Cultural Geography Introduction to Sociology <i>(or other ASLAS Social Science)</i>	PSYC 1300		6	
GEOG	2310		GEOG 1320			
SOCI	2300		SOC 1300			

Mathematics Foundation & Ancillary BS 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 Principles of Macroeconomics	ECON 2321		6-8	
ECON	2323		ECON 2320			
CHEM	1105/1305	General Chemistry 1 and Lab	CHEM 1450			
CHEM	1106/1306	General Chemistry 2 and Lab	CHEM 1451			
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			
		<i>ASLAS Approved Electives</i>			6-8	

Total Hours: 60⁴



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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	
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 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	
		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).