



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	10103	English Composition I		WRTG 1310		3	
ENGL	10203	English Composition II		WRTG 1320		3	
SPCH	10003	Speech Communications		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	10031/10043	Biology for Non-Majors and Lab (or other ASLAS Life Science with Lab)		BIOL 1400		4	
PHSC	10043/10031	Physical Science and Lab (or other ASLAS Physical Science with Lab)		PHYS 1400		4	
Arts and Humanities (3 credit hours)				UCA	Semester	Hours	Grade
ARHS	10003	Choose one: Introduction to Visual Art		ART 2300		3	
MUSC	10003	Introduction to Music		MUS 2300			
THTR	10003	Introduction to Theatre (or other ASLAS Arts and Humanities)		THEA 2300			
Literature (3 credit hours)				UCA	Semester	Hours	Grade
ENGL	21103	Choose one: World Literature from the Beginning to 1650		ENGL 2305		3	
ENGL	21203	World Literature from 1650 to the Present (or other ASLAS Literature)		ENGL 2306			
History/Government (3 Credit Hours)				UCA	Semester	Hours	Grade
HIST	21103	Choose one: US History to 1877		HIST 2301		3	
HIST	21203	US History since 1877		HIST 2302			
PLSC	20003	American National Government		PSCI 1330			
Social Science (6 credit hours)				UCA	Semester	Hours	Grade
PSYC	11003	Choose two: Psychology and the Human Experience		PSYC 1300		6	
GEOG	21103	Cultural Geography		GEOG 1320			
SOCI	10103	Introduction to Sociology (or other ASLAS Social Science)		SOC 1300			

Mathematics Foundation & Ancillary Program Requirement (25 credit hours)

			UCA	Semester	Hours	Grade
MATH	12003	Trigonometry	MATH 1392		3	
MATH	14004	Calculus I	MATH 1496		4	
MATH	15004	Calculus II	MATH 1497		4	
ECON	22003	Choose one of the course combinations listed below: Principles of Microeconomics	ECON 2321		6-8	
ECON	21003	Principles of Macroeconomics	ECON 2320			
CHEM	14101/14103	General Chemistry 1 and Lab	CHEM 1450			
CHEM	14201/14203	General Chemistry 2 and Lab	CHEM 1451			
CPSI	25174	Introduction to Computer Science I	CSCI 1470			
CPSI	26474	Introduction to Computer Science II	CSCI 1480			
PHYS	20103/20101	College Physics 1 and Lab	PHYS 1410			
PHYS	20203/20201	College Physics 2 and Lab	PHYS 1420			
PHYS	20343/20331	Advanced College Physics I and Lab	PHYS 1441			
PHYS	20443/20431	Advanced College Physics II and Lab	PHYS 1442			
		ASLAS Approved Electives			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	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 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		2	
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 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 UA-PTC and remaining 60 at UCA (40 of which must be upper-division).