



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



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)

			UCA ³	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	1400	Biology for General Education <i>(or other ASLAS Life Science with Lab)</i>	BIOL 1400		4	
PHYS	1401	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	ART 2300		3	
MUSC	2300	Introduction to Music	MUS 2300			
THEA	2300	Introduction to Theatre <i>(or other ASLAS Arts and Humanities)</i>	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 <i>(or other ASLAS Literature)</i>	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 Sciences (6 credit hours)

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

Mathematics Major and Computer Science Minor Foundation (25 credit hours)⁴

			UCA	Semester	Hours	Grade
CIS	2514	Introduction to Computer Science I	CSCI 1470		4	
CIS	2644	Introduction to Computer Science II	CSCI 1480		4	
CIS	2733	Data Structures	CSCI 2320		3	
MATH	1303	Trigonometry	MATH 1392		3	
MATH	1404	Calculus I	MATH 1496		4	
MATH	1405	Calculus II	MATH 1497		4	
		ASLAS Approved Elective			3	

Total Hours: 60⁵



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



University of Central Arkansas
Bachelor of Science in Mathematics (Data Science)
UCA Courses (60 credit hours)⁶

				Semester	Hours	Grade
MATH	2441	Introduction to Mathematical Computation			4	
MATH	2471	Calculus III			4	
MATH	3311	Statistical Methods			3	
MATH	3320	Linear Algebra (UD UCA Core: I)			3	
MATH	3391	Nonparametric Statistics			3	
MATH	3392	Multivariate Analysis			3	
MATH	4371	Introduction to Probability (UD UCA Core: R)			3	
MATH	4373	Regression Analysis			3	
MATH	4381	Special Problems in Mathematics			3	
MATH	4381	Special Problems in Mathematics			3	
MATH	4391	Machine Learning			3	
MATH	4395	Practicum in Data Science			3	
MIS	4355	Project Management (UD UCA Core: Z)			3	
MIS	4380	Business Intelligence			3	
		Approved Upper Division Math Major Elective (UD UCA Core: D)			3	
		Approved Upper Division Math Major Elective			3	
		General Elective			3	
CSCI		Upper Division Computer Science Minor Course (UD UCA Core: C)			3	
CSCI		Upper Division Computer Science Minor Course			3	
CSCI		Upper Division Computer Science Minor Course			1	

Total Hours: 120⁷

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 This agreement recommends a minor in Computer Science.

⁵ 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 (Data Science) degree program as a junior.

⁶ 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.

⁷ 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).