



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



**University of Arkansas-Pulaski Technical College<sup>1</sup>**  
**Associate of Science in Liberal Arts and Sciences<sup>2</sup>**

**General Education Requirements (35 credit hours)**

**English/Communication (9 credit hours)**

			UCA <sup>3</sup>	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 <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	<b>Choose one:</b> 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	<b>Choose one:</b> 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	<b>Choose one:</b> US History to 1877 US History since 1877 American National Government	HIST 2301		3	
HIST	2312		HIST 2302			
POLS	1310		PSCI 1330			

**Social Sciences (6 credit hours)**

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

**Mathematics Major and Computer Science Minor Foundation (25 credit hours)<sup>4</sup>**

			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: 60<sup>5</sup>**



**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)<sup>6</sup>**

			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 & Data Visualization		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: 120<sup>7</sup>**

<sup>1</sup> Please see your UA-PTC advisor for degree and graduation information.

<sup>2</sup> 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.

<sup>3</sup> UCA course is either guaranteed by ACTS (acts.adhe.edu) or by UCA Department Chair approval (if blank, elective credit will be awarded).

<sup>4</sup> This agreement recommends a minor in Computer Science.

<sup>5</sup> 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.

<sup>6</sup> In order to receive important communications about transferring to UCA, students are encouraged to create a UCA student account at [gopurple.uca.edu](http://gopurple.uca.edu). For more information about the 2+2 program, students may also send email inquiries to [ucatransfer@uca.edu](mailto:ucatransfer@uca.edu).

<sup>7</sup> 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).