



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



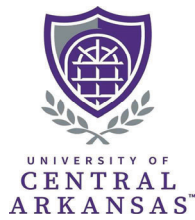
**University of Arkansas-Pulaski Technical College<sup>1</sup>**  
**Associate of Science in Liberal Arts and Sciences<sup>2</sup>**  
**General Education Requirements (35 credit hours)**

<b>English/Communication (9 credit hours)</b>			<b>UCA<sup>3</sup></b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
ENGL	1311	English Composition I	WRID 1310		3	
ENGL	1312	English Composition II	WRID 1320		3	
SPCH	1300	Speech Communications	COMM 1300		3	
<b>Mathematics (3 credit hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
MATH	1302	College Algebra	MATH 1390		3	
<b>Lab Sciences (8 credit hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
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	
<b>Arts and Humanities (3 credit hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
ARTS	2300	<b>Choose one:</b> Introduction to Visual Art	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			
<b>Literature (3 credit hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
ENGL	2337	<b>Choose one:</b> 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			
<b>History/Government (3 Credit Hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
HIST	2311	<b>Choose one:</b> US History to 1877	HIST 2301		3	
HIST	2312	US History since 1877	HIST 2302			
POLS	1310	American National Government	PSCI 1330			
<b>Social Science (6 credit hours)</b>			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
PSYC	2300	<b>Choose two:</b> Psychology and the Human Experience	PSYC 1300		6	
GEOG	2310	Cultural Geography	GEOG 1320			
SOCI	2300	Introduction to Sociology <i>(or other ASLAS Social Science)</i>	SOC 1300			

**Mathematics Foundation & Ancillary Program Requirement (25 credit hours)**

			<b>UCA</b>	<b>Semester</b>	<b>Hours</b>	<b>Grade</b>
MATH	1303	Trigonometry	MATH 1392		3	
MATH	1404	Calculus I	MATH 1496		4	
MATH	1405	Calculus II	MATH 1497		4	
ECON	2322	<b>Choose one of the course combinations listed below:</b> 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			
					6-8	

**Total Hours: 60<sup>4</sup>**



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**Associate of Science in Liberal Arts and Sciences**  
**BS in Mathematics (Applied Mathematics)**



**University of Central Arkansas**  
**Bachelor of Science in Mathematics (Applied Mathematics)**  
**UCA Courses (60 credit hours)<sup>5</sup>**

			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	<b>Choose one:</b> 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: 120<sup>6</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> 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.

<sup>5</sup> In order to receive important communications about transferring to UCA, students are encouraged to create a UCA student account at [admissions.uca.edu/apply/](https://admissions.uca.edu/apply/). For more information about the 2+2 program, students may also send email inquiries to [ucatransfer@uca.edu](mailto:ucatransfer@uca.edu).

<sup>6</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).