



## 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>

Possible Prerequisites			Semester	Hours	Grade
DEVE	0316	College Reading		N/C	
DEVE	0322	English Skills		N/C	
DEVE	0324	English Composition Fundamentals		N/C	
DEVE	0336	Elementary Algebra		N/C	
DEVE	0338	Intermediate Algebra		N/C	

#### 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	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	<b>Choose one:</b> 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	<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			

History/Government (3 Credit Hours)			UCA	Semester	Hours	Grade
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			

Social Science (6 credit hours)			UCA	Semester	Hours	Grade
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 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 I	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	1405	General Chemistry I	CHEM 1450			
CHEM	1406	General Chemistry II	CHEM 1451			
PHYS	1402	College Physics I	PHYS 1410			
PHYS	1403	College Physics II	PHYS 1420			
PHYS	1404	Advanced College Physics II	PHYS 1441			
PHYS	1405	Advanced College Physics II	PHYS 1442			
		ASLAS Approved Electives			6-8	

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



**2+2 Degree Plan Checklist**  
**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	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	
		<b>Choose one:</b>			
MATH	4315	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: 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 [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>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).