



# 2+2 Degree Plan Checklist

## Associate of Science in Liberal Arts and Sciences Bachelor of Science in Mathematics – Applied Mathematics



### Pulaski Technical College<sup>1</sup> Associate of Science in Liberal Arts and Sciences<sup>2</sup>

Possible Prerequisites			Semester	Hours	Grade
DEVE	0314	Reading Improvement		N/C	
DEVE	0316	College Reading		N/C	
DEVE	0322	English Skills		N/C	
DEVE	0324	English Composition Fundamentals		N/C	
DEVE	0334	Pre-Algebra Skills		N/C	
DEVE	0336	Elementary Algebra		N/C	
DEVE	0338	Intermediate Algebra		N/C	

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

English/Communications (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	
COMM	1300	Speech Communication	SPCH 1300		3	

Mathematics (3 credit hours)			UCA	Semester	Hours	Grade
MATH	1302	College Algebra	MATH 1390		3	

Sciences (8 credit hours)			UCA	Semester	Hours	Grade
BIOL	1400	Biology for General Education (or other ASLAS Life Science with Lab)	BIOL 1400		4	
PHYS	1401	Physical Science (or other ASLAS Physical Science with Lab)	PHYS 1400		4	

Literature (3 credit hours)			UCA	Semester	Hours	Grade
ENGL	2337	World Literature from the Beginning to 1650 or	ENGL 2305		3	
ENGL	2338	World Literature from 1650 to the Present (or other ASLAS Literature)	ENGL 2306			

Humanities (3 credit hours)			UCA	Semester	Hours	Grade
ARTS	2300	Introduction to Visual Arts or	ART 2300		3	
MUSC	2300	Introduction to Music or	MUS 2300			
THEA	2300	Introduction to Theatre (or other ASLAS Humanities)	THEA 2300			

History/Government (3 credit hours)			UCA	Semester	Hours	Grade
HIST	2311	U.S. History to 1877 or	HIST 2301		3	
HIST	2312	U.S. History since 1877 or	HIST 2302			
POLS	1310	American National Government	PSCI 1330			

Social Science (6 credit hours)			UCA	Semester	Hours	Grade
GEOG	2310	Cultural Geography or	GEOG 1320		6	
PSYC	2300	Psychology and the Human Experience or	PSYC 1300			
SOCI	2300	Introduction to Sociology	SOC 1300			
		(or other ASLAS Social Science)				

#### Mathematics Foundation Courses & Ancillary BS Requirement (25 credit hours)<sup>4</sup>

			UCA	Semester	Hours	Grade
ECON	2322	Principles of Microeconomics <sup>4</sup>	ECON 2321		3	
ECON	2323	Principles of Macroeconomics <sup>4</sup>	ECON 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	
		ASLAS Approved Elective			3	
		ASLAS Approved Elective			2	

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



**2+2 Degree Plan Checklist**  
**Associate of Science in Liberal Arts and Sciences**  
**Bachelor of Science in Mathematics – Applied Mathematics**



**University of Central Arkansas**  
**Bachelor of Science in Mathematics (Applied Mathematics)**  
**UCA Courses (60 credit hours)<sup>6</sup>**

			Semester	Hours	Grade
MATH	2335	Transition to Advanced Mathematics		3	
MATH	2441	Mathematical Computation		4	
MATH	2471	Calculus III		4	
MATH	3320	Linear Algebra (UD Core: I)		3	
MATH	3311	Statistical Methods		3	
MATH	3331	Ordinary Differential Equations (UD Core: C)		3	
MATH	4306	Modeling and Simulation (UD 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 Core: R)		3	
		Math Major Elective (4000 Level – from Approved List – See your Advisor)		3	
		Math Major Elective (4000 Level – from Approved List – See your Advisor)		3	
		Upper Division Minor Field Course (UD 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>7</sup>**

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

<sup>2</sup> Agreement requirements are guaranteed in accordance with the academic year of initial enrollment at 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> The following course combinations will also satisfy the ancillary BS requirement (general elective credit hours may need to be adjusted based upon the courses chosen - please see your advisor if you have questions about this requirement):

- PHYS 1402 (UCA: PHYS 1410) and PHYS 1403 (UCA: PHYS 1420) or
- CHEM 1405 (UCA: CHEM 1450) and CHEM 1406 (UCA: CHEM 1451)

<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 be admitted to the BS in Mathematics (Applied Mathematics) 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 PTC and remaining 60 at UCA (40 of which must be upper-division).