

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



Pulaski Technical College

Associate of Science in Liberal Arts and Sciences¹

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/Co	mmunicati	ons (9 credit hours)	UCA ²	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	
Mathemat	Mathematics (3 credit hours)		UCA	Semester	Hours	Grade
MATH	1302	College Algebra	MATH 1390		3	
Sciences (8	credit hou	rs)	UCA	Semester	Hours	Grade
BIOL	1400	Biology for General Education	BIOL 1400		4	
PHYS	1401	Physical Science	PHYS 1400		4	
iterature	(3 credit ho	purs)	UCA	Semester	Hours	Grade
ENGL	2337	World Literature from the Beginning to 1650 or	ENGL 2305		2	
ENGL	2338	World Literature from 1650 to the Present	ENGL 2306		3	
lumanitie	s (3 credit h	nours)	UCA	Semester	Hours	Grade
ARTS	2300	Introduction to Visual Arts or	ART 2300			
MUSC	2300	Introduction to Music or	MUS 2300		3	
PHIL	1310	Introduction to Philosophy or	PHIL 1301		3	
THEA	2300	Introduction to Theatre	THEA 2300			
History/Go	vernment	(3 credit hours)	UCA	Semester	Hours	Grade
HIST	2311	U.S. History to 1877 or	HIST 2301			
HIST	2312	U.S. History since 1877 or	HIST 2302		3	
POLS	1310	American National Government	PSCI 1330			
Social Science (6 credit hours) UCA			Semester	Hours	Grade	
GEOG	1310	Physical Geography or	GEOG 1315			
GEOG	2310	Cultural Geography or	GEOG 1320			
HIST	1311	History of Civilization I or	HIST 1310		C	
HIST	1312	History of Civilization II or	HIST 1320		6	
PSYC	2300	Psychology and the Human Experience	PSYC 1300			
SOCI	2300	Introduction to Sociology	SOC 1300			

Mathematics Foundation Courses & Ancillary BS Requirement (25 credit hours)

			UCA	Semester	Hours	Grade
ECON	2322	Principles of Economics I ³	ECON 2321		3	
ECON	2323	Principles of Economics II	ECON 2320		3	
MATH	1303	Trigonometry	MATH 1392		3	
MATH	1404	Calculus I	MATH 1496		4	
MATH	1405	Calculus II	MATH 1497		4	
		General Elective			3	
		General Elective			3	
		General Elective			2	

Total Hours: 60⁴



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University of Central Arkansas

Bachelor of Science in Mathematics (Applied Mathematics)

UCA Courses (60 credit hours)⁵

			Semester	Hours	Grade
MATH	2335	Transition to Advanced Mathematics		3	
MATH	2441	Mathematical Computation		4	
MATH	2471	Calculus III		4	
MATH	3320	Linear Algebra		3	
MATH	3331	Ordinary Differential Equations		3	
MATH	4306	Modeling and Simulation		3	
MATH	4371	Introduction to Probability		3	
MATH	4372	Introduction to Statistical Inference		3	
		Choose one:			
MATH	4315	Introduction to Partial Differential Equations		3	
MATH	4340	Numerical Methods		5	
MATH	4373	Regression Analysis			
		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		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	1 206	

Total Hours: 120⁶

¹ See your PTC advisor for degree and graduation information.

² UCA transfer course designations are either guaranteed by ACTS (acts.adhe.edu) or have been approved as a substitution by UCA. Unless otherwise noted, courses for which no UCA equivalent course is listed would transfer in as elective credit.

³ PHYS 1402 (UCA: PHYS 1410) and PHYS 1403 (UCA: PHYS 1420) or CHEM 1405 (UCA: CHEM 1450) and CHEM 1406 (UCA: CHEM 1451) can also be used to fulfill this ancillary BS requirement (general elective credits may need to be adjusted based upon the courses chosen to fulfill this requirement). Please see your advisor if you have questions.

⁴ 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 requirements and will be admitted to the BS in Mathematics (Applied Mathematics) degree program as a junior.

⁵ For more specific information about degree requirements within the junior and senior years at UCA, please review the UCA Undergraduate Bulletin (<u>http://uca.edu/ubulletin</u>) and consult your UCA academic advisor.

⁶ This degree program requires a total of <u>120</u> semester credit hours, including at least 40 upper-division credit hours.