



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



Northwest Arkansas Community College¹
Associate of Science in Liberal Arts and Sciences²

Possible Prerequisites

			Semester	Hours	Grade
ENGA	0033	College Reading		N/C	
ENGA	0063	Intermediate Writing		N/C	
MATH	0053	Beginning Algebra		N/C	
MATH	0103	Intermediate Algebra		N/C	

General Education Requirements (36 credit hours)

English Composition (6 credit hours)			UCA ³	Semester	Hours	Grade
ENGL	1013	Composition I	WRTG 1310		3	
ENGL	1023	Composition II	WRTG 1320		3	

Mathematics (4 credit hours)			UCA	Semester	Hours	Grade
MATH	1203	College Algebra	MATH 1390		3	

Lab Sciences (8 credit hours)			UCA	Semester	Hours	Grade
BIOL	1544	Principles of Biology I <i>(or other ASLAS Life Science with Lab)</i>	BIOL 1440		4	
PHSC	2004	Introduction to Physical Science <i>(or other ASLAS Physical Science with Lab)</i>	PHYS 1400		4	

			UCA	Semester	Hours	Grade
ARHS	1003	Choose one: Art Appreciation	ART 2300		3	
MUSI	1003	Music Appreciation	MUS 2300			
COMM	1303	Public Speaking <i>(or other ASLAS Fine Arts)</i>	COMM 1300			
ENGL	2213	Choose one: Survey of World Literature to 1650	ENGL 2305		3	
ENGL	2223	Survey of World Literature from 1650 <i>(or other ASLAS Humanities)</i>	ENGL 2306			

US History/Government (3 credit hours)			UCA	Semester	Hours	Grade
HIST	2003	Choose one: History of American People to 1877	HIST 2301		3	
HIST	2013	History of American People from 1877 to Present	HIST 2302			
PLSC	2003	American National Government	PSCI 1330			

Social Sciences (9 Credit Hours)			UCA	Semester	Hours	Grade
ANTH	1023	Choose three: Introduction to Cultural Anthropology	ANTH 2300		9	
PSYC	2003	General Psychology	PSYC 1300			
SOCI	2013	General Sociology <i>(or other ASLAS Social Science)</i>	SOC 1300			

Mathematics Foundation Courses & Ancillary BS Requirement (24 credit hours)

STEM Directed Electives (8 credit hours)			UCA	Semester	Hours	Grade
MATH	2554	Calculus I	MATH 1496		4	
MATH	2564	Calculus II	MATH 1497		4	

General Directed Electives (16 credit hours)			UCA	Semester	Hours	Grade
MATH	1213	Plane Trigonometry	MATH 1392		3	
ECON	2013	Choose one of the course combinations listed below: Principles of Macroeconomics	ECON 2320		6-8	
ECON	2023	Principles of Microeconomics	ECON 2321			
CHEM	1104	College Chemistry I	CHEM 1450			
CHEM	1124	College Chemistry II	CHEM 1451			
PHYS	2014	College Physics I	PHYS 1410			
PHYS	2034	College Physics II	PHYS 1420			
PHYS	2054	Advanced College Physics I	PHYS 1441		5-7	
PHYS	2074	Advanced College Physics II	PHYS 1442			
ASLAS Approved Electives						



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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	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	
MATH	4315	Choose one: 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: 120⁶

¹ Please see your NWACC advisor for degree and graduation information.

² Agreement requirements are guaranteed in accordance with the academic year of initial enrollment at NWACC, 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.

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

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

⁵ In order to receive important communications about transferring to UCA, students are encouraged to create a UCA student account at gopurple.uca.edu. For more information about the 2+2 program, students may also send email inquiries to ucatransfer@uca.edu.

⁶ This agreement requires 120 credit hours as follows: maximum 60 at NWACC and remaining 60 at UCA (40 of which must be upper-division).