



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



**Northwest Arkansas Community College<sup>1</sup>**  
**Associate of Science in Liberal Arts and Sciences<sup>2</sup>**

Possible Prerequisites			Semester	Hours	Grade
ENGL	0063	Intermediate Writing		N/C	
READ	0033	College Reading		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 <sup>3</sup>	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	1204	College Algebra	MATH 1390		4	

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	

Fine Arts/Humanities (6 credit hours)			UCA	Semester	Hours	Grade
ARHS	1003	<b>Choose one:</b> 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	<b>Choose one:</b> 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	<b>Choose one:</b> 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	<b>Choose three:</b> 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	<b>Choose one of the course combinations listed below:</b> 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			
PHYS	2074	Advanced College Physics II	PHYS 1442			
		ASLAS Approved Electives			5-7	



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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	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	<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		1	

**Total Hours: 120<sup>6</sup>**

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

<sup>2</sup> 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.

<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 NWACC and remaining 60 at UCA (40 of which must be upper-division).