Northwest Arkansas Community College[1]
Associate of Science in Liberal Arts and Sciences[2]

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[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	1204	College Algebra	MATH 1390		4	
Lab Sciences (8 credit hours)			**UCA**	**Semester**	**Hours**	**Grade**
BIOL	1544	Principles of Biology I *(or other ASLAS Life Science with Lab)*	BIOL 1440		4	
PHSC	2004	Introduction to Physical Science *(or other ASLAS Physical Science with Lab)*	PHYS 1400		4	
Fine Arts/Humanities (6 credit hours)			**UCA**	**Semester**	**Hours**	**Grade**
ARHS MUSI COMM	1003 1003 1303	**Choose one:** Art Appreciation Music Appreciation Public Speaking *(or other ASLAS Fine Arts)*	ART 2300 MUS 2300 COMM 1300		3	
ENGL ENGL	2213 2223	**Choose one:** Survey of World Literature to 1650 Survey of World Literature from 1650 *(or other ASLAS Humanities)*	ENGL 2305 ENGL 2306		3	
US History/Government (3 credit hours)			**UCA**	**Semester**	**Hours**	**Grade**
HIST HIST PLSC	2003 2013 2003	**Choose one:** History of American People to 1877 History of American People from 1877 to Present American National Government	HIST 2301 HIST 2302 PSCI 1330		3	
Social Sciences (9 Credit Hours)			**UCA**	**Semester**	**Hours**	**Grade**
ANTH PSYC SOCI	1023 2003 2013	**Choose three:** Introduction to Cultural Anthropology General Psychology General Sociology *(or other ASLAS Social Science)*	ANTH 2300 PSYC 1300 SOC 1300		9	

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

Total Hours: 60[4]

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	
		Minor Field Course		3	
		Minor Field Course		3	
		General Elective		1	

Total Hours: 120[6]

[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).