



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



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

Possible Prerequisites			Semester	Hours	Grade
LAN	0973	Language Enhancement		N/C	
MTH	0873	Mathematical Applications I		N/C	

General Education Requirements (35 credit hours)

English/Communication (9 credit hours)			UCA ³	Semester	Hours	Grade
ENG	1013	English Composition I	WRTG 1310		3	
ENG	1023	English Composition II	WRTG 1320		3	
SPE	1003	Introduction to Oral Communication	COMM 1300		3	

Mathematics (3 credit hours)			UCA	Semester	Hours	Grade
MTH	1113	College Algebra	MATH 1390		3	

Lab Sciences (8 credit hours)			UCA	Semester	Hours	Grade
BIO	1014	General Biology <i>(or other ASLAS Life Science with Lab)</i>	BIOL 1440		4	
PHS	1214	Physical Science with Lab <i>(or other ASLAS Physical Science with Lab)</i>	PHYS 1400		4	

Fine Arts/Humanities (6 credit hours)			UCA	Semester	Hours	Grade
ART	1003	Choose one: Art Appreciation	ART 2300		3	
MUS	1003	Music Appreciation	MUS 2300			
DRA	1003	Theatre Appreciation <i>(or other ASLAS Fine Arts)</i>	THEA 2300			
ENG	2073	Choose one: World Literature I	ENGL 2305		3	
ENG	2083	World Literature II <i>(or other ASLAS Humanities)</i>	ENGL 2306			

Social Sciences (6 credit hours)			UCA	Semester	Hours	Grade
HIS	2033	Choose one: United States History Before 1865	HIST 2301		3	
HIS	2043	United States History Since 1865	HIST 2302			
PSC	2003	American Government	PSCI 1330			
HIS	1013	Choose one: Western Civilization I	HIST 1310		3	
HIS	1023	Western Civilization II <i>(or other ASLAS Social Science)</i>	HIST 1320			

Social or Behavioral Science Elective (3 credit hours)			UCA	Semester	Hours	Grade
PSY	1003	Choose one: General Psychology	PSYC 1300		3	
SOC	1013	Introduction to Sociology <i>(or other ASLAS Social Science)</i>	SOC 1300			

Mathematics Foundation & Ancillary Program Requirement (25 credit hours)

			UCA	Semester	Hours	Grade
MTH	1123	College Trigonometry	MATH 1392		3	
MTH	2214	Calculus I	MATH 1496		4	
MTH	2224	Calculus II	MATH 1497		4	
ECO	2103	Choose one of the two-course combinations listed below: Principles of Macroeconomics	ECON 2320		6-8	
ECO	2203	Principles of Microeconomics	ECON 2321			
CHE	1214	College Chemistry I	CHEM 1450			
CHE	1234	College Chemistry II	CHEM 1451			
PHY	2114	General Physics I	PHYS 1410			
PHY	2134	General Physics II	PHYS 1420		6-8	
		ASLAS Approved Electives			6-8	

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	2341	Introduction to Mathematical Computation		3	
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	
		Choose one:			
MATH	4315	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		2	

Total Hours: 120⁶

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

² Agreement requirements are guaranteed in accordance with the academic year of initial enrollment at EACC, 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 admissions.uca.edu/apply/. 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 EACC and remaining 60 at UCA (40 of which must be upper-division).