



2+2 Degree Plan Checklist
Associate of Science in Liberal Arts and Sciences
BS in Cybersecurity (Cyberphysical Security)



Arkansas State University - Mountain Home¹
Associate of Science in Liberal Arts and Sciences²

Possible Prerequisites				Semester	Hours	Grade
CPT	0053	Basic Math			N/C	
CPT	0103	College Writing			N/C	
CPT	0123	College Reading			N/C	
CPT	0243	Foundations of Reading and Writing			N/C	
MATH	0003	Beginning Algebra			N/C	
MATH	0103	Intermediate Algebra			N/C	

General Education Requirements (35 credit hours)

English/Communication (9 credit hours)				UCA ³	Semester	Hours	Grade
BUS	2563	Business Communications	MGMT 2301			3	
ENG	1003	Composition I	WRTG 1310			3	
ENG	1013	Composition II	WRTG 1320			3	

Mathematics (3 credit hours)				UCA	Semester	Hours	Grade
MATH	1023	College Algebra	MATH 1390			3	

Lab Sciences (8 credit hours)				UCA	Semester	Hours	Grade
BIOL	1004	Biological Science and Lab <i>(or other ASLAS Life Science with Lab)</i>	BIOL 1400			4	
PHYS	1204	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	2503	Choose one: Fine Arts - Visual	ART 2300			3	
MUS	2503	Fine Arts - Music	MUS 2300				
THEA	2503	Fine Arts - Theatre	THEA 2300				
ENG	2003	Choose one: World Literature to 1660	ENGL 2305			3	
ENG	2013	World Literature since 1660	ENGL 2306				

Social Sciences (9 credit hours)				UCA	Semester	Hours	Grade
POSC	1003	Introduction to International Relations	PSCI 2300			3	
POSC	2103	United States Government	PSCI 1330			3	
GEOG	2703	Choose one: World Geography	GEOG 1300			3	
PSY	2513	Introduction to Psychology	PSYC 1300				
SOC	2213	Principles of Sociology <i>(or other ASLAS Social Science)</i>	SOC 1300				

Cybersecurity Foundation (25 credit hours)

				UCA	Semester	Hours	Grade
CIS	1023	Programming Fundamentals/Logic	CSCI 1470			3	
CIS	1106	CICSO Networking I	CSCI 2335			6	
CIS	1206	CICSO Networking II	CSCI 4315			6	
CIS	1513	Object Oriented Programming	CSCI 1480			3	
CIS	2683	Computer Forensics	CSEC 3320			3	
CIS	2723	Cybersecurity Essentials	CSEC 2300			3	
		<i>ASLAS Approved Elective</i>				1	

Total Hours: 60⁴



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University of Central Arkansas
Bachelor of Science in Cybersecurity (Cyberphysical Security)
UCA Courses (60 credit hours)⁵

Major Requirements (47 credit hours)			Semester	Hours	Grade
CSCI	2320	Data Structures		3	
CSCI	3330	Algorithms		3	
CSCI	3360	Database Systems (UD UCA Core: C)		3	
CSCI	4300	Operating Systems		3	
CSCI	4305	Linux/UNIX Systems		3	
CSCI	4321	Ethical Implications (UD UCA Core: D, R)		3	
CSEC	3300	Introduction to Number Theory and Cryptography		3	
CSEC	4490	Cybersecurity Capstone (UD UCA Core: Z)		4	
		Choose one:			
MATH	2311	Elementary Statistics		3	
PSCI	2312	Statistical Methods for Political Analysis			
QMTM	2330	Business Statistics			
CSCI	2330	Discrete Mathematics for Computing		3	
MATH	1491	Applied Calculus for the Life Sciences		4	
MIS	4355	Project Management (UD UCA Core: Z)		3	
MIS	4361	Cybersecurity Governance and Policy		3	
PSCI	3316	Cybersecurity Law & Policy (UD UCA Core: C)		3	
		Upper-Division Core Requirement (UD UCA Core: I)		3	

Cyberphysical Security Concentration (12 credit hours)			Semester	Hours	Grade
CSCI	3V75	Internship		3	
CSEC	4320	Ethical Hacking		3	
CSEC	4335	Network Security		3	
CSEC	4345	Cyber-Physical Security		3	

Elective (1 credit hour)			Semester	Hours	Grade
		General Elective		1	

Total Hours: 120⁶

¹ See your ASUMH advisor for degree and graduation information.

² Agreement requirements are guaranteed in accordance with the academic year of initial enrollment at ASUMH, 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, as shown above, will have satisfied the UCA Lower-Division Core and will be admitted to the BS in Cybersecurity (Cyberphysical Security) 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 ASUMH and remaining 60 at UCA (40 of which must be upper-division).



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University of Central Arkansas

M. Emre Celebi

03/01/2021

Date

Dr. M. Emre Celebi
Chairperson, Computer Science

Arkansas State University-Mountain Home

Tamara Daniel

08/19/2021

Date

Dr. Tamara Daniel
Provost/Vice Chancellor for Academic Affairs