



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



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

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	BIOL 1440		4	
PHYS	2054	Advanced College Physics I	PHYS 1441		4	

Fine Arts/Humanities (6 credit hours)			UCA	Semester	Hours	Grade
ARHS	1003	Choose one: Art Appreciation	ART 2300		3	
MUSI	1003	Music Appreciation	MUS 2300			
COMM	1303	Public Speaking (or other ASLAS Fine Arts)	COMM 1300			
ENGL	2213	Choose one: Survey of World Literature to 1650	ENGL 2305		3	
ENGL	2223	Survey of World Literature from 1650 (or other ASLAS Humanities)	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	
HIST	1033	World Civilization to 1500	HIST 1310			
HIST	1043	World Civilization from 1500	HIST 1320			
PHIL	2003	Introduction to Philosophy	PHIL 1301			
PSYC	2003	General Psychology	PSYC 1300			
SOCI	2013	General Sociology	SOC 1300			
		(or other ASLAS Social Science)				

Physics Foundation (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)				Semester	Hours	Grade
MATH	1213	Plane Trigonometry	MATH 1392		3	
PHYS	2074	Advanced College Physics II	PHYS 1442		4	
		ASLAS Approved Elective			3	
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Total Hours: 60⁴



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University of Central Arkansas
Bachelor of Science in Physics (Physics)
UCA Courses (60 credit hours)^{5,6}

			Semester	Hours	Grade
CSCI	1340	Introduction to Programming I		3	
MATH	2471	Calculus III		4	
MATH	3331	Ordinary Differential Equations I (UD UCA Core: C)		3	
		Choose One:			
PHIL	3320	Ethics (UD UCA Core: I, R)		3	
PHIL	3325	Political Philosophy (UD UCA Core: I, R)			
PHYS	2320	Introductory Computational Physics		3	
PHYS	2443	University Physics 3		4	
PHYS	3210	Experiments in Physics 1		2	
PHYS	3220	Experiments in Physics 2		2	
PHYS	3341	Mathematical Methods in Physics		3	
PHYS	3342	Mechanics		3	
PHYS	3343	Thermal Physics		3	
PHYS	3353	Quantum Theory 1		3	
PHYS	3360	Electromagnetism 1		3	
PHYS	3361	Electromagnetism 2		3	
PHYS	4111	Senior Capstone 1		1	
PHYS	4211	Senior Capstone 2 (UD UCA Core: Z)		2	
WRTG	3310	Technical Writing (UD UCA Core: C)		3	
		Upper Division Core (UD UCA Core: D)		3	
		Upper Division Major Elective		3	
		Upper Division Major Elective		3	
		General Elective		3	

Total Hours: 120⁷

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 Physics (Physics) 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 PHYS 2443, 3210, 3220, 4111 and 4211 is a 5-semester sequence of courses which will require PHYS 3220 to be taken over a summer term.

⁷ This agreement requires 120 credit hours as follows: maximum 60 at NWACC and remaining 60 at UCA (40 of which must be upper-division).