



# 2+2 Degree Plan Checklist

## Associate of Science in Liberal Arts and Sciences Bachelor of Science in Physics (Applied Physics)



### 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	
MATH	0053	Beginning Algebra		N/C	
MATH	0103	Intermediate Algebra		N/C	
READ	0033	College Reading		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	BIOL 1440		4	
PHYS	2054	Advanced College Physics I	PHYS 1441		4	

Fine Arts/Humanities (6 credit hours)			UCA	Semester	Hours	Grade
ARHS COMM MUSI	1003 1303 1003	Art Appreciation or Public Speaking or Music Appreciation (or other ASLAS Fine Arts)	ART 2300 COMM 1300 MUS 2300		3	
ENG ENG	2213 2223	Survey of World Literature to 1650 or Survey of World Literature from 1650 (or other ASLAS Humanities)	ENGL 2305 ENGL 2306		3	

U.S. History/Government (3 credit hours)			UCA	Semester	Hours	Grade
HIST	2003	History of American People to 1877 or	HIST 2301		3	
HIST	2013	History of American People 1877 to Present or	HIST 2302			
PLSC	2003	American National Government	PSCI 1330			

Social Sciences (9 credit hours)			UCA	Semester	Hours	Grade
ANTH HIST HIST PHIL PHIL PSYC SOCI	1023 1033 1043 2003 2033 2003 2013	Introduction to Cultural Anthropology or World Civilizations to 1500 or World Civilizations from 1500 or Introduction to Philosophy or World Religions or General Psychology or General Sociology (or other ASLAS Social Science)	ANTH 1302 HIST 1310 HIST 1320 PHIL 1301 RELG 1320 PSYC 1300 SOC 1300		9	

#### Physics Foundation (24 credit hours)

			UCA	Semester	Hours	Grade
CHEM	1104	College Chemistry I	CHEM 1450		4	
CHEM	1124	College Chemistry II	CHEM 1451		4	
MATH	1213	Plane Trigonometry	MATH 1392		3	
MATH	2554	Calculus I	MATH 1496		4	
MATH	2564	Calculus II	MATH 1497		4	
PHYS	2074	Advanced College Physics II	PHYS 1442		4	
		ASLAS Approved Elective			1	

**Total Hours: 60<sup>4</sup>**



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**Associate of Science in Liberal Arts and Sciences**  
**Bachelor of Science in Physics (Applied Physics)**



**University of Central Arkansas**  
**Bachelor of Science in Physics (Applied Physics)**

UCA Courses (60 credit hours)<sup>5</sup>

			Semester	Hours	Grade
CSCI	1340	Introduction to Programming		3	
ECON	1310	Modern Political Economy		3	
MATH	2471	Calculus III		4	
MATH	3331	Ordinary Differential Equations		3	
MATH	4371	Introduction to Probability		3	
PHIL	3320	Ethics (I, R) or		3	
PHIL	3325	Political Philosophy (I, R)			
PHYS	2443	University Physics 3		4	
PHYS	3210	Experiments in Physics 1		2	
PHYS	3220	Experiments in Physics 2 <sup>6</sup>		2	
PHYS	3341	Mathematical Methods in Physics		3	
PHYS	3342	Mechanics		3	
PHYS	3343	Thermal Physics		3	
PHYS	3360	Electromagnetism 1		3	
PHYS	4303	Special Problems in Physics <sup>7</sup> or		3	
PHYS	4380	Internship in Applied Physics			
PHYS	4303	Special Problems in Physics <sup>7</sup> or		3	
PHYS	4380	Internship in Applied Physics			
PHYS	4111	Senior Capstone 1		1	
PHYS	4211	Senior Capstone 2 (Z)		2	
WRTG	3310	Technical Writing (C)		3	
		Upper Division Core Elective (D)		3	
		General Elective		3	
		General Elective		3	

**Total Hours: 120<sup>8</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 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, 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 (Applied Physics) 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> 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.

<sup>7</sup> PHYS 4303 or PHYS 4380 can be repeated for up to 6 credit hours.

<sup>8</sup> This agreement requires 120 credit hours: maximum 60 at NWACC and remaining 60 at UCA (40 of which must be upper-division).