CURRICULUM FOR BACHELOR OF SCIENCE IN CHEMISTRY AND PHYSICS
BIOCHEMISTRY OPTION
(120-CREDIT HOURS))

Minimum Grade of "C" in ALL STEM Courses

FALL SEMESTER					SPRING SEMESTER			
FRESHMAN YEAR								
English Composition I	ENGL	1311	3		English Composition II	ENGL	1321	3
General Chemistry I	CHEM	1330	3		General Chemistry II	CHEM	1340	3
General Chemistry I Lab	CHEM	1130	1		General Chemistry II Lab	CHEM	1140	1
College Algebra **OR**	MATH	1330	3		Calculus I	MATH	2510	5
College Trigonometry **OR**	MATH	1340			Personal Health & Safety **OR**	HLPE	1310	3
Pre-Calculus	MATH	1550			Nutrition and Wellness	HUSC	1311	
Personal & Social Dev	BAS	1210	2					
General Psychology **OR**	PSYC	2300	3					
Intro to Social Sciences	SOCI	1320						
			15-17					**15**
SOPHOMORE YEAR								
Oral Communication	MCOM	2390	3		Art History Appreciation **OR**	ART	2340	3
Foreign Language I	MDFL		3		Music History Appreciation	MUSI	2330	
Humanities **OR**	HUMN	2301	3		Comp Sci/Vis Basic	CPSC	2322	3
Effective Thinking/Logic **OR**	HUMN	2340			English Literature	ENGL	2300/2360/ 2361	3
Theatre Appreciation	THTR	2324			Principles of Economics **OR**	ECON	2310	3
Career & Life Planning	BAS	1120	1		Introduction to Sociology	SOCI	2310	
Organic Chemistry I	CHEM	3311	3		Organic Chemistry II	CHEM	3321	3
Organic Chem. I lab	CHEM	3111	1		Organic Chem. II lab	CHEM	3121	1
Physical Education Elective	HLPE	1110-1125	1					
			15					**16**
JUNIOR YEAR								
					Intro to Computer Prog.	CPSC	2363	3
General Physics I	PHYS	2310	3		General Physics II	PHYS	2320	3
General Physics I Lab	PHYS	2110	1		General Physics II Lab	PHYS	2120	1
Quantitative Analysis	CHEM	2330	3		Principles of Biology II	BIOL	1456	4
Quantitative Analysis	CHEM	2130	1		Foreign Language II	MDFL		3
Principles of Biology I	BIOL	1455	4		Physical Education Elective **OR**	HLPE	1110-1125	1
U.S. History **OR**	HIST	2315	3		Learning to Lead 1 (for 1-hr PE)	MLSC	1210	
American Government	PSCI	2312						
			15					15-16
SENIOR YEAR								
Research Chemistry I	CHEM	4210	2		Biochemistry II	CHEM	3322	3
Biochemistry I	CHEM	3313	3		Research Chemistry II	CHEM	4212	2
Biochemistry I Lab	CHEM	3113	1		Chemistry Seminar	CHEM	4110	1
Cell Biology	BIOL	3480	4		Biology Elective	BIOL		4
Physical Chemistry I	CHEM	4312	3		Chemistry Elective	CHEM		4
Physical Chemistry I Lab	CHEM	4112	1					
			14					15

UNIVERSITY of ARKANSAS AT PINE BLUFF 1873

School of Arts and Sciences
Department of Chemistry and Physics
Bachelor of Science Degree in Chemistry and Physics-
<u>Biochemistry</u> Concentration (120-Credit Hours)

A Minimum Grade of C is required for All STEM Courses

DATE OF ENTRY: _____ **I.D. NUMBER** _____ **Email:** _____
NAME: _____ **ADDRESS:** _____
HOME TELEPHONE: _____ **WORK:** _____ **CELL:** _____

COURSE	HRS	COURSE	HRS
General Education Institutional Requirement (3-Hours)		___ ENGL 1321 English Composition II	3
___ BAS 1210 Personal and Social Development	2	___ MCOM 2390 Oral Communication	3
___ BAS 1120 Career and Life Planning	1	**Select 1 course from the following:**	3
Mathematics & Natural Sciences (11-13 Hours)		___ ENGL 2300 Introduction to Literature	
___ BIOL 1455 Principles of Biology	4	___ ENGL 2360 World Literature I	
___ CHEM 1330 General Chemistry I	3	___ ENGL 2361 World Literature II	
___ CHEM 1130 General Chemistry I Lab	1	**Common Core Program Requirement (50-Hours)**	
Select 1 course from the following:	3-5	___ CPSC 2322 Special Topics: Visual Basic	3
___ MATH 1330 College Algebra		___ CPSC 2363 Intro. to Business Programming	3
___ MATH 1340 College Trigonometry		___ Foreign Language I	3
___ MATH 1550 Pre-Calculus I		___ Foreign Language II	3
Humanities (6-Hours)		___ MATH 2510 Calculus I	5
Select 2 courses from the following:	6	___ CHEM 1340 General Chemistry II	3
___ ART 2340 Art Appreciation		___ CHEM 1140 General Chemistry II Lab	1
___ MUSI 2330 Music Appreciation		___ CHEM 3311 Organic Chemistry I	3
___ HUMN 2301 Humanities		___ *CHEM 3111 Organic Chemistry I Lab*	1
___ HUMN 2340 Effective Thinking / Logic		___ CHEM 3321 Organic Chemistry II	3
___ THTR 2324 Theatre Appreciation		___ CHEM 3121 Organic Chemistry II Lab	1
Social Sciences (9-Hours)		___ CHEM 2330 Quantitative Analysis	3
Select 1 course from the following:	3	___ CHEM 2130 Quantitative Analysis Lab	1
___ HIST 2315 U. S. History to 1877		___ CHEM 4312 Physical Chemistry I	3
___ HIST 2318 U. S. History Since 1877		___ CHEM 4112 Physical Chemistry I Lab	1
___ PSCI 2312 American Government		___ CHEM 3313 Biochemistry I	3
Select 2 from the following	6	___ CHEM 3113 Biochemistry I Lab	1
___ ECON 2310 Principles of Economics I		___ CHEM 4210 Chemical Research I	2
___ PSYC 2300 General Psychology		___ CHEM 4212 Chemical Research II	2
___ SOCI 1320 Introduction to Social Science		___ CHEM 4110 Chemistry Seminar	1
___ SOCI 2310 Introduction to Sociology		___ BIOL Biology Elective-3440, 3460, 3470 or 3490	4
Health & Physical Education (6-Hours)		**Biochemistry Options (23-Hours)**	
Select 1 course from the following:	3	___ Chemistry Elective	4
___ HUSC 1311 Nutrition and Wellness		___ CHEM 3322 Biochemistry II	3
___ HLPE 1310 Personal Health & Safety		___ PHYS 2310 General Physics I*	3
Select any 2 from the following:	3	___ PHYS 2110 General Physics I Lab**	1
___ HLPE 1110 through HLPE 1125 Phys. Educ.		___ PHYS 2320 General Physics II***	3
___ MLSC 1210: Learning to Lead I (for 1 hour PE)		___ PHYS 2120 General Physics II Lab****	1
Communication (12-Hours)		___ BIOL 1456 Principles of Biology II	4
___ ENGL 1311 English Composition I	3	___ BIOL 3480 Cell Biology	4

<u>CAN BE USED AS SUBSTITUTE</u>

*PHYS 3310 University Physics I
**PHYS 3310 University Physics I Lab
***PHYS 3320 University Physics II
****PHYS 3320 University Physics II Lab

<u>CHECKLIST OF COMPLETION:</u>

_____AAGE (Rising Junior Exam)
_____Exit University College
_____Senior Comprehensive Exam
_____English Proficiency Exam

<u>SIGNATURES:</u>

Student: _____ Date: _____
Advisor: _____ Date: _____
Chair: _____ Date: _____
Dean: _____ Date: _____