

Bachelor of Science in Chemistry with a Concentration in Biochemistry
University of Arkansas - Fort Smith
In Partnership with Phillips Community College of the University of Arkansas
Associate of Science with an Emphasis in Chemistry
[UAFS course numbers are italicized in brackets.]

Hours	Courses	Notes	Grade
PCCUA AS with an emphasis in Chemistry/Pre-Medical (57 hours)			
6	English [<i>English Composition requirement</i>] *EN 113 Composition I [<i>ENGL 1203</i>] *EN 123 Composition II [<i>ENGL 1213</i>]	1 1	
3	Speech [<i>Speech requirement</i>] *SP 243 Fundamentals of Speech [<i>SPCH 1203</i>]	1	
9	Social Sciences [<i>History and Social Sciences requirement</i>] Select one course from the following [<i>History/Government requirement</i>] *HY 213 United States History I [<i>HIST 2753</i>] *HY 223 United States History II [<i>HIST 2763</i>] Select one course from the following PCCUA requirement [<i>Social Science requirement</i>] HY 113 Western Civilization I HY 123 Western Civilization II Select one additional Social Science requirement for PCCUA General Education Core.	1	
Science and Math Requirements			
8	Select eight hours from the following. [<i>Counts for Additional degree requirements</i>] BY 114 General Biology I BY 124 General Biology II *BY 134 General Zoology [<i>BIOL 2703/2701</i>] *BY 144 General Botany [<i>BIOL 2303/2301</i>]	3	
16	*CY 114 General Chemistry I [<i>CHEM 1403/1401</i>] *CY 124 General Chemistry II [<i>CHEM 1413/1411</i>] CY 214 Organic Chemistry I [<i>CHEM 2703/2701</i>] CY 224 Organic Chemistry II [<i>CHEM 2713/2711</i>]	2	
10	*MS 215 Calculus I [<i>MATH 2804</i>] *MS 225 Calculus II [<i>MATH 2854</i>] [<i>Eight hours for requirements and two hours for Additional degree requirements</i>]	2 & 3	
Approved Electives			
5	*PS 215 General Physics I [<i>PHYS 2803/2811</i>] [<i>One hour will count for Additional degree requirements</i>]	2 & 4	
Additional Lower Level Courses for Transfer to BS in Chemistry (10 hours)			
6	[<i>Fine Arts and Humanities requirements</i>] Select one course with a prefix of FA, MSC, or SP-Theatre [<i>Fine Arts requirement</i>] Select one course from a prefix of EH or PHIL [<i>Humanities requirement</i>]	1	
4	World Language	6	
67 Maximum Credit Hours Total			
Additional BS Chemistry Requirements (53 hours)			
Courses must be taken at UAFS or approved as transfer from another bachelor's degree granting institution. 50% of the major must be completed in residency at UAFS.			
4	PHYS 2823/2831 College Physics II/Lab	2	
3	BIOL 2003 Introduction to Cell Biology	2	

4	CHEM 3403/3401 Biochemistry I/Lab	2	
4	CHEM 3423/3421 Biochemistry II/Lab	2	
3	CHEM 4203 Biophysical Chemistry	2, 3 & 5	
4	BIOL 3803/3801 Genetics/Lab	2	
4	CHEM 3604 Analytical Chemistry	2	
4	BIOL 4604 General Physiology	2	
2	CHEM 3202 Chemical Literature and Seminar	2	
4	BIOL 4803/4801 Cell and Molecular Biology/Lab	2	
3	CHEM 4903 Special Topics: Chemistry	2	
3	HIST 3053 History of Modern Science		
11	Additional degree requirements-must be upper-level	3	

Total Hours 120

NOTES

1. General Education Core Requirements, see Graduation Requirements section of [UAFS Undergraduate Academic Catalog](#) OR follow PCCUA General Education core requirements.

2. These courses are used to determine major courses in residency, see Graduation Requirements, [UAFS Undergraduate Academic Catalog](#).

3. Additional degree requirements. 22 hours. Consult with advisor. Ten hours of electives must be upper-level to ensure completion of 45 upper-level hours for graduation.

4. Consult with faculty advisor. Sequence of physics. Recommend Technical Physics (PCCUA) but some professional programs will accept General Physics.

5. If planning to take CHEM 4504 as an elective, please note it is offered every other year. Consult with faculty advisor.

6. World language, 4 hours. Select any world language.

Prior to graduation students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 Personal Finance Applications (or approved substitution) with a grade of C or better, or a score of 70% or more on a challenge exam for FIN 1521.