

Chemistry B.A. with Biochemistry Option

Chemistry B.A. with Biochemistry Concentration
Eight-Semester Degree Plan

Students enrolling in the eight-semester degree plan should review the Eight-Semester Degree Completion Policy (<http://catalog.uark.edu/undergraduatecatalog/academicregulations/eightsemesterdegreecompletionpolicy/>).

State minimum core requirements may vary by individual, based on placement and previous credit granted. Once all core requirements are met, students may substitute with general electives in consultation with their academic advisor.

First Year	Units	
	Fall	Spring
ENGL 10103 Composition I (ACTS Equivalency = ENGL 1013) (Satisfies General Education Outcome 1.1) ¹	3	
MATH 13004 Precalculus Mathematics (ACTS Equivalency = MATH 1305) (Satisfies General Education Outcome 2.1) ¹	4	
Select one of the following: (Satisfies General Education Outcome 3.4) ¹	4	
CHEM 12073 Chemistry for Majors I & CHEM 12071 Chemistry for Majors I Laboratory		
CHEM 14103 University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture) & CHEM 14101 University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414 Lab)		
Elementary I World Language (10103) Course	3	
General Elective ¹	1	
ENGL 10203 Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.2)		3
MATH 24004 Calculus I (ACTS Equivalency = MATH 2405)		4
Select one of the following:		4
CHEM 12283 Chemistry for Majors II & CHEM 12281 Chemistry for Majors II Laboratory		
CHEM 14203 University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture) & CHEM 14201 University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)		
Elementary II World Language (10203) Course		3
General Electives ¹		1
Year Total:	15	15

Second Year	Units	
	Fall	Spring
CHEM 37073 Organic Chemistry I Lecture for Chemistry Majors & CHEM 37072 Organic Chemistry I Lab for Chemistry Majors	5	
Choose 1:	4	
CHEM 22673 Analytical Chemistry Lecture & CHEM 22671 Analytical Chemistry Laboratory		
BIOL any (BIOL 10103 & 10101 recommended)		
Intermediate I World Language (20103) Course (Meets Humanities State core and General Education Outcomes 3.2 and 4.1) ¹		3
University/State Core Fine Arts requirement (Satisfies General Education Outcome 3.1) ¹		3
CHEM 37203 Organic Chemistry II Lecture for Chemistry Majors & CHEM 37202 Organic Chemistry II Lab for Chemistry Majors		5
Choose 1:		4
CHEM 22673 Analytical Chemistry Lecture & CHEM 22671 Analytical Chemistry Laboratory ¹		
BIOL any (BIOL 10103 & 10101 recommended)		
Social Science State Minimum Core (Satisfies General Education Outcome 3.3) ¹		3
Social Science State Minimum Core (Satisfies General Education Outcome 5.1) ¹		3
Year Total:	15	15

Third Year	Units	
	Fall	Spring
PHYS 20103 College Physics I (ACTS Equivalency = PHYS 2014 Lecture) & PHYS 20101 College Physics I Laboratory (ACTS Equivalency = PHYS 2014 Lab)	4	
or		
PHYS 20304 University Physics I (ACTS Equivalency = PHYS 2034) ²		
BIOL any		3
U.S. History or Government State Minimum Core (Satisfies General Education Outcome 4.2) ¹		3
General Electives ¹		5
PHYS 20203 College Physics II (ACTS Equivalency = PHYS 2024 Lecture) & PHYS 20201 College Physics II Laboratory (ACTS Equivalency = PHYS 2024 Lab)		4
or		
PHYS 20404 University Physics II (ACTS Equivalency = PHYS 2044 Lecture) ²		
BIOL 30000+		3
BIOL any		3
Social Science State Minimum Core (Satisfies General Education Outcome 3.3) ¹		3
General Elective ¹		2

Year Total: 15 15

Fourth Year	Units	
	Fall	Spring
CHEM 38103 Elements of Biochemistry	3	
CHEM 34603 Elements of Physical Chemistry & CHEM 34601 Elements of Physical Chemistry Laboratory	4	
Physical Chemistry Lab meets General Education Outcome 6.1		
General Electives (Electives should be 30000+ as needed) ¹	8	
CHEM 48503 Biochemical Techniques		3
CHEM 42203 Instrumental Analysis & CHEM 42101 Instrumental Analysis Laboratory		4
General Electives as needed to reach 120 hours (Electives should be 3000+ as needed) ¹		8
Year Total:	15	15

Total Units in Sequence: 120

¹ Students must complete the State Minimum Core (<https://catalog.uark.edu/undergraduatecatalog/gened/stateminimum/>) and the requirements of their major(s) as outlined in the Catalog of Studies. These courses also fulfill many, if not all, of the General Education Requirements (<https://nam11.safelinks.protection.outlook.com/?url=http%3A%2F%2Fcatalog.uark.edu%2Fundergraduatecatalog%2Fgened%2Fgeneraleducation%2F&data=04%7C01%7Crc003%40uark.edu%7C92f936f375f845bf930708d8e3ec5fa1%7C79c742c4e61c4fa5be89a3cb566a80d1%7C0%7C637509951644028245%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IjEhaWwiLCJXVCi6Mn0%3D%7C1000&sdata=r35av68n3oEQW9FslqBgmbstnUENpJF7EoP4AD4Bks%3D&reserved=0>). Please visit these pages in the links provided and consult with your academic advisor when making course selections to fulfill these requirements.

² Students who take PHYS 20304 University Physics I will need to ensure they have taken the appropriate prerequisite: MATH 24004 Calculus I
Students who take PHYS 20404 University Physics II will need to ensure they have taken the appropriate prerequisite: PHYS 20304 University Physics I and MATH 25004 Calculus II