

# Chemistry B.S.

## Chemistry B.S. Eight-Semester Degree Program

Students wishing to follow the eight-semester degree plan should see the Eight-Semester Degree Policy (<http://catalog.uark.edu/undergraduatecatalog/academicregulations/eightsemesterdegreecompletionpolicy>) in the Academic Regulations chapter for university requirements of the program. Core requirement hours may vary by individual, based on placement and previous credit granted. Once all core requirements are met, students may substitute a three-hour (or more) general elective in place of a core area. Students must complete at least 124 hours and this must be considered when scheduling upper-level hours in the senior year.

This program meets the minimum requirements for certification by the American Chemical Society if CHEM 3813 (or CHEM 4813H/CHEM 4843H or CHEM 5813/CHEM 5843) is included.

First Year	Units	
	Fall	Spring
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013)	3	
MATH 2554 Calculus I (ACTS Equivalency = MATH 2405) <sup>1</sup>	4	
Select one of the following:	4	
CHEM 1203 Chemistry for Majors I & CHEM 1201L Chemistry for Majors I Laboratory		
CHEM 1103 University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture) & CHEM 1101L University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414 Lab)		
University/State Core U.S. History requirement	3	
General Elective	3	
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023)		3
MATH 2564 Calculus II (ACTS Equivalency = MATH 2505) <sup>1</sup>		4
Select one of the following:		4
CHEM 1223 Chemistry for Majors II & CHEM 1221L Chemistry for Majors II Laboratory		
CHEM 1123 University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture) & CHEM 1121L University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)		
University/State Core Social Science requirement		3
Year Total:	17	14

Second Year	Units	
	Fall	Spring
MATH 2574 Calculus III (ACTS Equivalency = MATH 2603) <sup>1</sup>	4	

PHYS 2054 University Physics I (ACTS Equivalency = PHYS 2034) <sup>1</sup>	4	
CHEM 3703 Organic Chemistry I Lecture for Chemistry Majors & CHEM 3702L Organic Chemistry I Lab for Chemistry Majors <sup>1,2</sup>	5	
University/State Core Fine Arts or Humanities requirement		3
PHYS 2074 University Physics II (ACTS Equivalency = PHYS 2044 Lecture) <sup>1</sup>		4
CHEM 3713 Organic Chemistry II Lecture for Chemistry Majors & CHEM 3712L Organic Chemistry II Lab for Chemistry Majors <sup>1,2</sup>		5
University/State Core Humanities or Fine Arts requirement (as needed)		3
University/State Core Social Science requirement		3
Year Total:	16	15

Third Year	Units	
	Fall	Spring
CHEM 3504 Physical Chemistry I <sup>1,2</sup>	4	
CHEM 2263 Analytical Chemistry Lecture & CHEM 2261L Analytical Chemistry Laboratory <sup>1</sup>	4	
Select one of the following:	3-4	
BIOL 1543 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 1541L Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab) <sup>1</sup>		
General Elective		
University/State Core Social Science requirement	3	
CHEM 3514 Physical Chemistry II & CHEM 3512L Physical Chemistry Laboratory <sup>1,2</sup>		6
Advanced Level Elective Course <sup>1</sup>		4
Select one of the following:		3-4
BIOL 1543 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 1541L Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)		
General Elective		
General Elective		3
Year Total:	14	16

Fourth Year	Units	
	Fall	Spring
CHEM 4123 Advanced Inorganic Chemistry I <sup>1,2</sup>	3	
CHEM 4723 Experimental Methods in Organic Chemistry <sup>1,2</sup>	3	
CHEM 3813 Elements of Biochemistry <sup>1,2</sup>	3	
CHEM Elective	3	
General Elective	3	
CHEM 4213 Instrumental Analysis & CHEM 4211L Instrumental Analysis Laboratory <sup>1,2</sup>		4
CHEM 4853 Biochemical Techniques <sup>1,2</sup>		3

General Electives (as needed to total 120)		6
Year Total:	15	13

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Total Units in Sequence: 120

<sup>1</sup> Meets 40-hour advanced credit hour requirement. See College Academic Regulations on page 131 of this chapter

<sup>2</sup> Meets 24-hour rule (24 hours of 3000-4000 level courses in Fulbright College), in addition to meeting the 40-hour rule. See College Academic Regulations on page 131 of this chapter.