

# 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 38103 (or CHEM 481H3/CHEM 484H3 or CHEM 58103/CHEM 58403) is included.

First Year	Units	
	Fall	Spring
ENGL 10103 Composition I (ACTS Equivalency = ENGL 1013)	3	
MATH 24004 Calculus I (ACTS Equivalency = MATH 2405) <sup>1</sup>	4	
Select one of the following:	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)		
University/State Core U.S. History requirement	3	
General Elective	3	
ENGL 10203 Composition II (ACTS Equivalency = ENGL 1023)		3
MATH 25004 Calculus II <sup>1</sup>		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)		
University/State Core Social Science requirement		3
Year Total:	17	14

Second Year	Units	
	Fall	Spring
MATH 26004 Calculus III <sup>1</sup>	4	
PHYS 20304 University Physics I (ACTS Equivalency = PHYS 2034) <sup>1</sup>	4	

CHEM 37073 Organic Chemistry I Lecture for Chemistry Majors	5	
& CHEM 37072 Organic Chemistry I Lab for Chemistry Majors <sup>1,2</sup>		
University/State Core Fine Arts or Humanities requirement	3	
PHYS 20404 University Physics II (ACTS Equivalency = PHYS 2044 Lecture) <sup>1</sup>		4
CHEM 37203 Organic Chemistry II Lecture for Chemistry Majors		5
& CHEM 37072 Organic Chemistry I Lab for Chemistry Majors <sup>1,2</sup>		
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 35004 Physical Chemistry I <sup>1,2</sup>	4	
CHEM 22673 Analytical Chemistry Lecture & CHEM 22671 Analytical Chemistry Laboratory <sup>1</sup>	4	
Select one of the following:	3-4	
BIOL 10103 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 10101 Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab) <sup>1</sup>		
General Elective		
University/State Core Social Science requirement	3	
CHEM 35204 Physical Chemistry II & CHEM 35102 Physical Chemistry Laboratory <sup>1,2</sup>		6
Advanced Level Elective Course <sup>1</sup>		4
Select one of the following:		3-4
BIOL 10103 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 10101 Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)		
General Elective		
General Elective		3
Year Total:	14	16

Fourth Year	Units	
	Fall	Spring
CHEM 41203 Advanced Inorganic Chemistry I <sup>1,2</sup>	3	
CHEM 47203 Experimental Methods in Organic Chemistry <sup>1,2</sup>	3	
CHEM 38103 Elements of Biochemistry <sup>1,2</sup>	3	
CHEM Elective	3	
General Elective	3	
CHEM 42203 Instrumental Analysis & CHEM 42101 Instrumental Analysis Laboratory <sup>1,2</sup>		4
CHEM 48503 Biochemical Techniques <sup>1,2</sup>		3
General Electives (as needed to total 120)		6
Year Total:	15	13

---

**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.