

# Physics B.S. with Biophysics Concentration

## Physics B.S. with Biophysics Concentration Eight-Semester Degree Plan

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 as well as Fulbright College requirements.

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. Well prepared students may skip BIOL 1543/BIOL 1541L, and go immediately into the biology core courses. Students should consult their advisers.

First Year	Units	
	Fall	Spring
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013)	3	
BIOL 2533 Cell Biology & BIOL 2531L Cell Biology Laboratory	4	
MATH 2554 Calculus I (ACTS Equivalency = MATH 2405) <sup>1</sup>	4	
PHYS 2054 University Physics I (ACTS Equivalency = PHYS 2034) <sup>1</sup>	4	
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023)		3
MATH 2564 Calculus II (ACTS Equivalency = MATH 2505) <sup>1</sup>		4
BIOL 2323 General Genetics (Highly recommended; serves as a prerequisite to many upper-level BIOL courses.)		3
PHYS 2074 University Physics II (ACTS Equivalency = PHYS 2044 Lecture) <sup>1</sup>		4
University Core Fine Arts or Humanities		3
Year Total:	15	17

Second Year	Units	
	Fall	Spring
PHYS 2094 University Physics III <sup>1</sup>	4	
MATH 2574 Calculus III (ACTS Equivalency = MATH 2603) <sup>1</sup>	4	
CHEM 1103 University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture) & CHEM 1101L University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414 Lab)	4	
University Core Humanities or Fine Arts requirement (as needed)		3
PHYS 3613 Modern Physics <sup>1,2</sup>		3

CHEM 1123 University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture) & CHEM 1121L University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)		4
MATH 2584 Elementary Differential Equations <sup>1,2</sup>		4
BIOL 2013 General Microbiology (ACTS Equivalency = BIOL 2004 Lecture) & BIOL 2011L General Microbiology Laboratory (ACTS Equivalency = BIOL 2004 Lab) <sup>1,3</sup>		4
Year Total:	15	15

Third Year	Units	
	Fall	Spring
University Core Social Science requirement	3	
MATH 3083 Linear Algebra	3	
University Core U.S. History Requirement	3	
CHEM 3603 Organic Chemistry I & CHEM 3601L Organic Chemistry I Laboratory <sup>1,2</sup>	4	
PHYS 3453 Electromagnetic Theory I <sup>1,2</sup>		3
PHYS 4333 Thermal Physics		3
CHEM 3613 Organic Chemistry II & CHEM 3611L Organic Chemistry II Laboratory <sup>2</sup>		4
University Core Social Science requirement		3
Year Total:	13	13

Fourth Year	Units	
	Fall	Spring
PHYS 4073 Introduction to Quantum Mechanics <sup>1,2</sup>	3	
BIOL 4003 (Or other 3000-level or higher PHYS, ASTR, BIOL, or CHEM course as approved by adviser) <sup>1,2,3</sup>	3	
University Core Social Science requirement	3	
General Electives	7	
BIOL 3023 Evolutionary Biology (Or other 3000-level or higher PHYS, ASTR, BIOL, or CHEM course as approved by advisor) <sup>2</sup>		3
PHYS 4991 Physics Senior Seminar <sup>1,2</sup>		1
General Electives as needed to total 120 degree credit hours		12
Year Total:	16	16
Total Units in Sequence:		120

<sup>1</sup> Meets 40-hour advanced credit hour requirement. See College Academic Regulations.

<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.

<sup>3</sup> Any astronomy or physics elective numbered 3000 or above, or another chemistry or biology elective.