

# Biophysics, Minor

Biophysics is concerned with the application of the concepts and methods of physics to the solution of biological problems and to the understanding of biological processes. Students who complete the biophysics minor achieve a grasp of physics as it relates to solving biological problems, a general understanding of the nature of biological problems and of proteins and cell membranes in particular and of several techniques based on physics principles that are used in biological investigations.

## Minor in Biophysics

Cognate requirements for the minor are one year each of introductory biology and introductory chemistry as follows:

Code	Title	Hours
Cognate Course Requirements:		
Required Biology Sequence:		6
BIOL 1001 & BIOL 1002	General Biology 1 and General Biology 2	
Required Chemistry Sequence:		8
CHEM 1001 & CHEM 1002	General Chemistry 1 and General Chemistry 2	
<b>Total Credit Hours:</b>		<b>14</b>

Biophysics Minor Course Requirements:

Code	Title	Hours
Required Introduction to Organic Chemistry: Choose one of the following.		1-8
CHEM 2111 & CHEM 2112	Organic Chemistry 1 and Organic Chemistry 2	
or		
CHEM 2113 & CHEM 2114	Organic Chemistry for Majors 1 and Organic Chemistry for Majors 2	
or		
BISC 2050	Organic Chemistry for the Health Sciences	
Required Differential and Integral Calculus: Choose one of the following.		3-4
MATH 1410	Calculus for the Biological Sciences	
MATH 1450	Calculus 1	
Required Physics Sequence: Choose one of the following sequences.		8
PHYS 1001 & PHYS 1002	General Physics 1 and General Physics 2	
PHYS 1003 & PHYS 1004	General Physics with Introductory Calculus 1 and General Physics with Introductory Calculus 2	
PHYS 1013 & PHYS 1014	Classical and Modern Physics with Calculus 1 and Classical and Modern Physics with Calculus 2	
Physics Course Requirements:		
PHYS 4046	The Physical Basis of Biological Structure and Function (or equivalent by consent of Physics Dept)	3
PHYS 4065	Experimental Methods in Molecular Biophysics	3
PHYS 4956	Undergraduate Research in Physics <sup>1</sup>	3
<b>Total Credit Hours:</b>		<b>21-29</b>

<sup>1</sup> PHYS 4956 Undergraduate Research in Physics must be taken for 3 cr. hrs.

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