

College of Science  
Department of Physics  
Minor: BIOLOGICAL PHYSICS  
For students graduating in calendar year 2019

The Minor in Biological Physics requires the completion of 22 credit hours.

**I. Required courses (13 credit hours)**

PHYS 2305 Foundations of Physics I (Pre: MATH 1225, Co: MATH 1226)	4	<input type="checkbox"/>
PHYS 2306 Foundations of Physics I (Pre: PHYS 2305, MATH 1226)	4	<input type="checkbox"/>
PHYS 4714 Introduction to Biophysics (Pre: PHYS 2206 or PHYS 2306)	3	<input type="checkbox"/>
BIOL 2124 Cell and Molecular Biology for Engineers <sup>A</sup> (Pre: COS/ENGR 2164)	2	<input type="checkbox"/>

**II. Select 9 credit hours from the below:**

PHYS 3704 Thermal Physics (Pre: PHYS 2306, PHYS 3324, Co: PHYS 2504, MATH 2214)	3	<input type="checkbox"/>
PHYS 4564 Polymer Physics (Pre: PHYS 2306)	3	<input type="checkbox"/>
PHYS 4574 Nanotechnology (Pre: PHYS 2205, 2206 or PHYS 2305, 2306)	3	<input type="checkbox"/>
PHYS 4614 Optics (Pre: PHYS 2306, MATH 2214, MATH 2204)	3	<input type="checkbox"/>
PHYS 4755 Intro to Computational Physics (Pre: PHYS 2306, CS 1044)	3	<input type="checkbox"/>
BIOL 3124 Cell Physiology (Pre: BIOL 2104, CHEM 2536)	3	<input type="checkbox"/>
BIOL 3774 Molecular Biology (Pre: BIOL 2104)	3	<input type="checkbox"/>
BIOL 4884 Cell Biology (Pre: BIOL 3774 or BCHM 4116)	3	<input type="checkbox"/>
SYSB 2025 Introduction to Systems Biology (Pre: ISC 1106 or (BIOL 1105, CHEM 1036, MATH 1026))	3	<input type="checkbox"/>

Total 22 credit hours.

**III. Notes**

- (1) Minimum GPA  
Must have a 2.0 or higher for all courses used to complete this minor.
- (2) <sup>A</sup>Acceptable substitution  
BIOL 2104 Cell and Molecular Biology is an acceptable substitution for BIOL 2124.
- (3) Prerequisites  
Some courses in the minor requirements listed above may have prerequisites. Be sure to consult the University Course Catalog or check with your advisor.