

B.S. in Biophysics

(127 credits)

First Year

1st Semester		Term Credits
HUM 101	English Composition: Writing, Speaking, Thinking I	3
PHYS 111	Physics I	3
PHYS 111A	Physics I Laboratory	1
MATH 111	Calculus I	4
CS 113 or CS 115	Introduction to Computer Science or Intro. to CS I in C++	3
CHEM 121 or CHEM 125	Fundamentals of Chemical Principles I or General Chemistry I	3
FRSH SEM	Freshman Seminar	0
Term Credits		17

2nd Semester

PHYS 114	Introduction to Data Reduction with Applications	3
PHYS 121	Physics II	3
PHYS 121A	Physics II Laboratory	1
MATH 112	Calculus II	4
CHEM 122 or CHEM 126	Fundamentals of Chemical Principles II or General Chemistry II	3
CHEM 124	General Chemistry Laboratory	1
Physical Education:GUR Elective		1
Term Credits		16

Second Year**1st Semester**

R120 101	General Biology	4
MATH 225	Survey of Probability and Statistics	1
PHYS 234	Physics III	3
PHYS 231A	Physics III Laboratory	1
CHEM 243	Organic Chemistry I	3
MATH 211	Calculus III A	3
Physical Education:GUR Elective		1
Term Credits		16

2nd Semester

MATH 222	Differential Equations	4
MATH 328	Mathematical Methods for Scientists and Engineers	3
PHYS 335	Introductory Thermodynamics	3
R120 201	Foundations Of Biology	3
R120 202	Foundations Of Biology Lab	1
English Composition and Cultural History (lower-level):GUR Elective		3
Term Credits		17

Third Year**1st Semester**

R120 102	General Biology	4
PHYS 430	Classical Mechanics I	3
PHYS 432	Electromagnetism I	3
Social Sciences (lower-level):GUR Elective		3
Social Sciences (lower-level):GUR Elective		3
Term Credits		16

2nd Semester

OPSE 310	Virtual Instrumentation	3
PHYS 433	Electromagnetism II	3
R120 360	Biochemistry	3
Humanities and Social Sciences (upper-level):GUR Elective		3
English Composition and Cultural History (lower-level):GUR Elective		3

Term Credits	15
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Fourth Year**1st Semester**

Open Elective in Humanities and Social Sciences (upper-level):GUR Elective		3
PHYS 442	Introduction to Quantum Mechanics	3
PHYS 418	Fundamentals of Optical Imaging	3
300 or 400 level Physics Elective		3
PHYS 350	Biophysics I	3

Term Credits	15
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2nd Semester

Management:GUR Elective		3
PHYS 451	Biophysics II	3
PHYS 450	Advanced Physics Laboratory	3
OPSE 410	Biophotonics	3
Humanities and Social Sciences (upper-level) Capstone Seminar:GUR Elective		3

Term Credits	15
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Total Credits	127
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GUR Electives

Refer to the **General University Requirement** section of this catalog for further information on GUR electives.

This curriculum represents the maximum number of credits per semester for which a student is advised to register. A full-time credit load is 12 credits.

First-year students are placed in a curriculum that positions them for success which may result in additional time needed to complete curriculum requirements. Continuing students should consult with their academic advisor to determine the appropriate credit load.