

Biology with Physiology Concentration

Major

The physiology concentration within the biology major is intended for students interested in applications of biological concepts to human health.

Biology Core Courses

Item #	Title	Credits
BI 110	Biological Investigation	4.0
BI 207	Molecular Genetics	4.0
BI 238	Ecology and Evolution	4.0
BI 315	Anatomy and Physiology I	4.0
BI 316	Anatomy and Physiology II	4.0

Capstone

Student must complete a biology capstone in their final year (BI 401 and BI 402, HS 402, or BI404).

Item #	Title	Credits
BI 401	Research and Analysis I	2.0
BI 402	Research and Analysis II	2.0
HS 402	Senior Seminar	4.0
BI 404	Research Experience Capstone	3.0-4.0

Physiology Concentration

Additionally, students in the Physiology concentration of the biology major must complete a total of four semesters of Chemistry and quantitative elective courses, including at least one semester of each.

The chemistry courses available are:

Item #	Title	Credits
CH 110	General Chemistry	4.0
CH 203	Organic Chemistry I	4.0
CH 211	Quantitative Analysis	4.0
CH 231	Inorganic Chemistry	4.0
CH 304	Organic Chemistry II	4.0
CH 309	Biochemistry I	4.0

The quantitative electives available are:

Item #	Title	Credits
CS 160	Introduction to Computer Science	4.0
CS 170	Introduction to Data Structures	4.0
MA 201	Discrete Mathematics	4.0
MA 213	Calculus I	4.0
MA 223	Calculus II	4.0
PY 181 or PY 201		4.0

General Physics I or College Physics I

PY 181	General Physics I	4.0
PY 201	College Physics I	4.0
PY 182 or PY 202		4.0

General Physics II or College Physics II

PY 182	General Physics II	4.0
PY 202	College Physics II	4.0

Biology Electives

Additionally, students in the Physiology concentration choose two Biology electives from the following list:

Item #	Title	Credits
BI 306	Developmental Biology	4.0
BI 307	Cell and Molecular Biology	4.0
BI 310	Immunology	4.0
BI 311	Virology	4.0
BI 342	Parasitology	4.0
BI 345	Principles of Microbiology	4.0
KI 340	Exercise Physiology	4.0

Notes

Students completing the Physiology Concentration may also find KI 225 Nutrition helpful. Students preparing for specific graduate health professions training should consult the target programs and their advisors to select additional coursework as necessary.

Total Credits		48
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