

College of Arts and Sciences 2026-2027 Degree Worksheet

B.S. BIOLOGY with Concentration in Physiology

COLLEGE of ARTS & SCIENCES

Language Requirement

All students who major in the College of Arts & Sciences are required to demonstrate competence in a second language. For complete details:

<https://www.gonzaga.edu/college-of-arts-sciences/about/information-for-students/language-requirement-information>

Credits Sem/Yr

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UNIVERSITY CORE REQUIREMENTS:

► FUNDAMENTAL CORE COURSES

Year 1: Understanding & Creating

Writing	Credits Sem/Yr
ENGL 101 Writing (fulfills 3 credits Writing Enriched) [▲]	3
Reasoning	
PHIL 101 Reasoning	3
First Year Seminar	
Dept. 193	3
Communication & Speech	
COMM 100 Communication & Speech	3
Math	
MATH (must be above Math 100)	3
Scientific Inquiry (2cr + 1cr lab) *	
BIOL or CHEM or PHYS 104/104L (taken year 1 or 2)	3

Year 2: Being & Becoming

Christianity & Catholic Traditions	Credits Sem/Yr
RELI (see approved list)**	3
Philosophy of Human Nature	
PHIL 201 Philosophy of Human Nature	3

Year 3: Caring & Doing

World/Comparative Religion	Credits Sem/Yr
RELI (see approved list)** (fulfills 3cr Global Studies) [♦]	3
Ethics	
PHIL 301 Ethics or RELI 330 Principles-Christian Morality	3

Year 4: Imagining the Possible

Core Integration Seminar	Credits Sem/Yr
Dept. 432	3

NOTE: some courses have pre-requisites, check the catalog carefully!

► BROADENING COURSES - see approved list**

Social & Behavioral Science	Credits Sem/Yr
	3
Literature	
	3
History	
	3
Fine Arts & Design	
	3

► REQUIRED COURSE DESIGNATIONS - see approved list**

[▲] Writing Enriched	Credits Sem/Yr
	9 total
Social Justice	
	3 total
[♦] Global Studies	
	6 total

****for list of approved RELI, Broadening & Designated courses, see :**
<https://my.gonzaga.edu/academics/undergraduate-programs/general-degree-requirements-procedures/university-core>

*BIOL 105/105L meets the Scientific Inquiry requirement of the University Core for Biology Majors and Minors

Credits from BIOL 497 Biology Internship, do not satisfy any requirements for the Biology Major or Minor.

Students must earn C- grade or better in BIOL 105/105L & BIOL 106 to take BIOL 205, 206, or 207. Students must get C- grade or better in BIOL 205/205L, 206/206L, 207/207L & BIOL 399 to take BIOL 499.

Upper division BIOL electives: minimum of 10 credits(BS), 6 credits(BA), 4 credits(Minor) must be taken from GU faculty. Study abroad students take note.

B.S. BIOLOGY -

Physiology Concentration

63-64 CREDITS

LOWER DIVISION

36-37 Credits

28 credits

Course	Course Title	Credits	Grade
BIOL 105/105L	Info Flow in Biological Systems + Lab*	4	
BIOL 106	Energy Flow in Biological Systems	3	
BIOL 111	Biology Pathways	1	
BIOL 205/205L	Physiology & Biodiversity + Lab	4	
BIOL 206/206L	Ecology + Lab	4	
BIOL 207/207L	Genetics + Lab	4	
CHEM 101/101L	General Chemistry + Lab	4	
CHEM 230/230L	Organic Chemistry I + Lab	4	

Choose one of the following sets of courses + labs:

5 credits

PHYS 111/111L	General Physics I + Lab	5	
PHYS 121/121L	Physics I + Lab	5	

Choose one of the following Math or Statistics courses:

3-4 credits

MATH 221	Applied Statistics	3	
MATH 321	Statistics for Experimentalist	3	
BIOL 305	Biological Data Analysis	4	

UPPER DIVISION

27 Credits

3 Credits

BIOL 399	Advanced Topics	2	
BIOL 495	Senior Evaluation	0	
BIOL 499	Senior Colloquium	1	

Biology Upper Division Electives:

15 Credits

A minimum of 15 credits of upper-division BIOL electives.

At least 10 credits must be taken from this list and at least

one course must include a lab:

BIOL 313	Animal Behavior	3	
BIOL 341/341L	Human Physiology + Lab	4	
BIOL 351/351L	Cell Biology + Lab	4	
BIOL 371/371L	Vertebrate Biology + Lab	4	
BIOL 376	Cellular Neurophysiology	3	
BIOL 420	Physiological Ecology	3	
BIOL 441	Advanced Physiology (+ 441L 1cr Lab if offered)	3	
BIOL 451	Comparative Endocrinology (+ 451L 1cr Lab if offered)	3	
BIOL 498	Approved Physiology Research	4	

Choose enough credits to reach a minimum of 15 credits when combined with the upper-division BIOL electives above:

BIOL 301-498 incl. courses not already counted for conc.¹

¹ BIOL 399, 495, 497, 499 do not qualify

Additional Science Electives:

9 credits

Any upper-division BIOL courses not already counted toward the concentration (BIOL 399, 495, 497, 499 do not qualify)

BIOL 301-498, if not used above	
CHEM 102/102L General Chemistry II + Lab	
CHEM 231 and higher	
CPSC 121 and higher	
MATH 148 and higher	
PHYS 112 and higher	

ALL courses should be chosen in consultation with a Biology faculty advisor.