

College of Arts and Sciences 2024-2025 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

UNIVERSITY CORE REQUIREMENTS:

► FUNDAMENTAL CORE COURSES

Year 1: Understanding & Creating

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

Year 2: Being & Becoming

	Credits	Sem/Yr
<i>Christianity & Catholic Traditions</i> RELI (see approved list)**	3	<input type="checkbox"/>
<i>Philosophy of Human Nature</i> PHIL 201 Philosophy of Human Nature	3	<input type="checkbox"/>

Year 3: Caring & Doing

	Credits	Sem/Yr
<i>World/Comparative Religion</i> RELI (see approved list)** (fulfills 3cr Global Studies)*	3	<input type="checkbox"/>
<i>Ethics</i> PHIL 301 Ethics or RELI 330 Principles-Christian Morality	3	<input type="checkbox"/>

Year 4: Imagining the Possible

	Credits	Sem/Yr
<i>Core Integration Seminar</i> Dept. 432	3	<input type="checkbox"/>

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

► BROADENING COURSES - see approved list**

	Credits	Sem/Yr
Social & Behavioral Science	3	<input type="checkbox"/>
Literature	3	<input type="checkbox"/>
History	3	<input type="checkbox"/>
Fine Arts & Design	3	<input type="checkbox"/>

► REQUIRED COURSE DESIGNATIONS - see approved list**

	Credits	Sem/Yr
*Writing Enriched	9 total	<input type="checkbox"/>
Social Justice	3 total	<input type="checkbox"/>
*Global Studies	6 total	<input type="checkbox"/>

****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

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

Choose one of the following sets of courses + labs: 5 credits

PHYS 111/111L	General Physics I + Lab	5	<input type="checkbox"/>
PHYS 121/121L	Physics I + Lab	5	<input type="checkbox"/>

Choose one of the following Math or Statistics courses: 3-4 credits

MATH 221	Applied Statistics	3	<input type="checkbox"/>
MATH 321	Statistics for Experimentalist	3	<input type="checkbox"/>
BIOL 305	Biological Data Analysis	4	<input type="checkbox"/>

UPPER DIVISION

27 Credits

BIOL 399	Advanced Topics	2	<input type="checkbox"/>
BIOL 495	Senior Evaluation	0	<input type="checkbox"/>
BIOL 499	Senior Colloquium	1	<input type="checkbox"/>

Biology Upper Division Electives:

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:

15 Credits

BIOL 313	Animal Behavior	3	<input type="checkbox"/>
BIOL 341/341L	Human Physiology + Lab	4	<input type="checkbox"/>
BIOL 351/351L	Cell Biology + Lab	4	<input type="checkbox"/>
BIOL 371/371L	Vertebrate Biology + Lab	4	<input type="checkbox"/>
BIOL 420	Physiological Ecology	3	<input type="checkbox"/>
BIOL 441	Advanced Physiology (+441L 1cr Lab if offered)	3	<input type="checkbox"/>
BIOL 451/451L	Comparative Endocrinology + Lab	4	<input type="checkbox"/>
BIOL 498	Approved Physiology Research	4	<input type="checkbox"/>
BIOL 301-498 incl.	courses not already counted for conc.*		<input type="checkbox"/>

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.*

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

Additional Science Electives:

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

9 credits

BIOL BIOL 301-498, if not used above		<input type="checkbox"/>
CHEM 102/102L	General Chemistry II + Lab	<input type="checkbox"/>
CHEM 231 and higher		<input type="checkbox"/>
CPSC 121 and higher		<input type="checkbox"/>
MATH any course 148 or higher		<input type="checkbox"/>
PHYS any course above 111		<input type="checkbox"/>

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