College of Arts and Sciences 2024-2025 Degree Worksheet

B.S. BIOLOGY with Concentration in Evolution and Integrative Biology (EIB)

Page 1 of 2

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-forstudents/language-requirement-information

Credits Sem/Yr

UNIVERSITY CORE REQUIREMENTS: Year 1: Understanding & Creating

► FUNDAMENTAL CORE COURSES

PHIL 101

Writing		Credits Sem/Yr
ENGL 101 Writing	(fulfills 3 credits Writing Enriched)*	3
Reasoning		
PHIL 101 Reasoning		3

First Year Seminar 3 Dept. 193 Communication & Speech 3 COMM 100 Communication & Speech Math

MATH (must be above Math 100) Scientific Inquiry (2cr + 1cr lab) *

BIOL or CHEM or PHYS 104/104L 3 (taken year 1 or 2) Vear 2: Reina & Recomina

	rear 2. Deing a Decoming	
Christiani	ty & Catholic Traditions	Credits Sem/Yr
RELI	(see approved list)**	3
Dhilosoph	u of Humann Matura	

Philosophy of Human Nature PHIL 201 Philosophy of Human Nature 3 Year 3: Caring & Doing

World/Comp	arative Religion	Cre	dits Se	em/Yr
RELI	(see approved list)**	(fulfills 3cr Global Studies)*	3	
Fthics				

PHIL 301 Ethics or RELI 330 Principles-Christian Morality 3 Year 4: Imagining the Possible

Credits Sem/Yr Core Integration Seminar Dept. 432 3

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

BROADENING COLLESES - see approved list**

BROADLINING COOKSES - see approved list	
Social & Behavioral Science	Credits Sem/Yr
	3
Literature	
	3
History	
,	3
Fine Arts & Design	
	2

REQUIRED COURSE DESIGNATIONS - see approved list**

NEQUINED COOKSE DESIGNATIO	113 - 3CC 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 : //my.gonzaga.edu/academics/undergraduate-programs/general requirements-procedures/university-core

B.S. BIOLOGY- Evolution and 60-65 CREDITS Integrative Biology (EIB) Concentration

LOWER DIVISION

Course	Course Title	Credits 3rac
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:

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

Choose one of the following Math or Statistics courses:

MATH 121 Statistics	3	
MATH 221 Applied Statistics (MATH 148 is a pre-requisite)	3	
MATH 147 Precalculus	3	
BIOL 305 Biological Data Analysis	4	

UPPER DIVISION 24-28 Credits BIOL 399 Advanced Topics 2 BIOL 495 Senior Evaluation 0

BIOL	499 Senior Colloquium	1
Choos	se one of the following:	3-4 credits
BIOL	323/323L Conservation Biology + Lab	4

Biology Upper Division Electives

334 Advanced Evolution

12 Credits At least one course must include a lab (or BIOL 498 4cr Research). Must select courses from two of the following three groups - A,B,C.

Group A:

BIOL	335 Advanced Genetics	3	
BIOL	351/351L Cell Biology + Lab	4	
BIOL	370/370L Microbiology + Lab	4	
BIOL	374 Immunology	3	
BIOL	375 Virology	3	
BIOL	456/456L Molecular Biology + Lab	4	
BIOL	441/441L Advanced Physiology + Lab	4	

Group B:

BIOL	313 Animal Behavior	3	
BIOL	331 Parasitology	3	
BIOL	334 Advanced Evolution	3	
BIOL	337 Developmental Biology	3	
BIOL	340/340L Field Botany + Lab	4	
BIOL	341/341L Human Physiology + Lab	4	
BIOL	360/360L Plant Biology + Lab	4	
BIOL	367/367L Entomology + Lab	4	
BIOL	371/371L Vertebrate Biology + Lab	4	
BIOL	441 Advanced Physiology (+441L 1cr Lab if offered)	3	
BIOL	451/451L Comparative Endocrinology + Lab	4	

continued on Page 2

^{*}BIOL 105/105L meets the Scientific Inquiry requirement of the University Core for Biology Majors & Minors.

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Page 2 of 2

Group C:

BIOL 420 Physiological Ecology

continued

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

Students must earn a C- grade or better in BIOL 105/105L and BIOL 106 in order to take BIOL 205, 206, or 207.

Students must also earn a C- grade or better in BIOL 205/205L, 206/206L, 207/207L & BIOL 399 in order to take BIOL 499.

Upper division BIOL electives: minimum of 10 credits(BS), 6 credits(BA), or 4 credits(Minor) must be taken from Gonzaga faculty. Students participating in study abroad programs take note.

BIOL	303/303L Population Ecology + Lab	4	
BIOL	323/323L Conservation Biology + Lab	4	
BIOL	333 Community Ecology	Э	
BIOL	342/342L Plant Population Ecology + Lab	4	
BIOL	343 Plant Community Ecology	Э	
BIOL	344 GIS & Ecological Techniques (+344L 1cr Lab if offered)	ы	
BIOL	357/357L Principles of Wildllife Mgmt + Lab	4	
BIOL	359/359L Studies in Biodiversity + Lab	4	
BIOL	403/403L Marine Biology + Lab	4	

Additional Science electives - choose at least two: 6-9 cred	lits
BIOL 305 Biological Data Analysis (if not used above)	
CHEM 102/102L General Chem II, and any CHEM course above 230)
CPSC 121 and higher	
MATH 148 and higher, if not used above	
PHYS 112 and higher, if not used above	