

Degree Worksheet for the College of Arts and Sciences: 2023-2024

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

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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 & Minors.

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

60-65 CREDITS

LOWER DIVISION

Course	Course Title	Credits	Grade
BIOL 105 & 105L	Info Flow in Biological Systems + Lab*	3	
BIOL 106	Energy Flow in Biological Systems	3	
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	5	

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 pre-requisite)	3	
MATH 147	Precalculus or Math course for Science majors	3	
BIOL 305	Biological Data Analysis	4	

UPPER DIVISION

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

Choose one of the following two courses:

BIOL 323 & 323L	Conservation Biology	4	
BIOL 334	Advanced Evolution	3	

Biology Upper Division Electives

15 Credits

At least one course must include a lab or BIOL 498 Research.

Must select courses from two of the following three groups - A,B,C.

Group A:

BIOL 335	Advanced Genetics	4	
BIOL 351 & 351L	Cell Biology + Lab	4	
BIOL 370 & 370L	Microbiology + Lab	4	
BIOL 374	Immunology	4	
BIOL 375	Virology	4	
BIOL 456 & 456L	Molecular Biology + Lab	4	
BIOL 441 & 441L	Advanced Physiology Neurophysiology + 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	Plant Biology	4	
BIOL 367 & 367L	Entomology + Lab	4	
BIOL 371 & 371L	Vertebrate Biology + Lab	4	
BIOL 441 & 441L	Advanced Physiology + Lab	4	
BIOL 451 & 451L	Comparative Endocrinology + Lab	4	

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

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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(B.S.), 6 credits(B.A.), or 4 credits(Minor) must be taken from Gonzaga faculty. Students participating in study abroad programs take note.

Group C:

BIOL 303 & 303L Population Ecology + Lab	4	
BIOL 323 & 323L Conservation Biology + Lab	4	
BIOL 333 Community Ecology	3	
BIOL 344 & 344L GIS & Ecological Techniques + Lab	4	
BIOL 357 & 357L Principles of Wildlife Mgmt + Lab	4	
BIOL 359 & 359L Studies in Biodiversity + Lab	4	
BIOL 403 & 403L Marine Biology + Lab	4	
BIOL 420 Physiological Ecology	3	

Other Science electives - choose two:

6-9 credits

BIOL 305 Biological Data Analysis	
CHEM 205 and higher	
CPSC 121 and higher	
MATH 148 and higher, if not used above	
PHYS 122 and higher	