

Bachelor of Sciences – Biology

Ecology and Evolutionary Biology

An undergraduate degree from Washington State University requires a minimum of 120 total semester hours. The University, College of Arts and Sciences, and School of Biological Sciences each have specific requirements for a degree; checklists for these requirements are provided on the second page of this sheet. Requirements and electives for the specific degree and option headlined above are listed below this paragraph. All official requirements for each student's specific degree are listed in the student's my.wsu.edu Academic Requirement Report. This sheet is only meant to serve as a guide.

Biology Core Requirements:

Biological Sciences Requirements:

	Credits	Grade
BIOLOGY 106 Intro Biology: Organismal	4	_____
BIOLOGY 107 Intro Biology: Cell Bio & Genetics	4	_____
BIOLOGY 301 General Genetics	4	_____
BIOLOGY 370 [M] Ecology of Health & Disease <u>OR</u>		
BIOLOGY 372 [M] General Ecology	4	_____
BIOLOGY 395 Evolutionary Medicine <u>OR</u>		
BIOLOGY 403 Evolutionary Biology <u>OR</u>		
BIOLOGY 405 Prin. of Organic Evolution	3	_____

Calculus Requirement:

MATH 140 Calculus for Life Scientists <u>OR</u>		
MATH 171 Calculus I	4	_____

Statistics Requirement:

STAT 212 Intro to Statistical Methods <u>OR</u>		
STAT 412 Stat Methods in Research I <u>OR</u>		
PSYCH 311 Statistics in Psychology	3-4	_____

Chemistry Requirement:

CHEM 105* Principles of Chemistry I	4	_____
CHEM 106* Principles of Chemistry II	4	_____
CHEM 345 Organic Chemistry I	4	_____

Physics Requirement:

PHYS 101* General Physics I <u>OR</u>		
PHYS 201* Physics for Sci. & Engineers I	4	_____
PHYS 102 General Physics II <u>OR</u>		
PHYS 202 Physics for Sci. & Engineers II	4	_____

Ecology & Evolutionary Biology Requirements:

Choose one of the following:

BIOLOGY 350 Comparative Physiology <u>OR</u>		
BIOLOGY 420 Plant Physiology	3-4	_____

Elective requirements: One course from the Ecology Emphasis **and**

One course from the Evolution/Organismal Emphasis **and**

Additional course work from either emphasis to total 12 credits.

Ecology Emphasis

BIOLOGY 330 Principles of Conservation	3	_____
BIOLOGY 410 Marine Ecology	3	_____
BIOLOGY 462 Community Ecology	3	_____
BIOLOGY 469 Ecosystem Eco & Global Change	3	_____
BIOLOGY 483 _{[M][CAPS]} Organisms & Global Change	3	_____
BIOLOGY 485 _[CAPS] Biology of the Oceans	3	_____

Evolution/Organismal Emphasis

	Credits	Grade
BIOLOGY 322 [M] Invertebrate Biology	3	_____
BIOLOGY 324 Comparative Vertebrate Anatomy	3	_____
BIOLOGY 332 [M] Systematic Botany	3	_____
BIOLOGY 335 [M] Genome Biology	3	_____
BIOLOGY 408 _{[M][CAPS]} Contemporary Genetics	3	_____
BIOLOGY 409 Plant Anatomy	3	_____
BIOLOGY 412 Biology of Fishes	3	_____
BIOLOGY 418 Parasitology	3	_____
BIOLOGY 423 Ornithology	3	_____
BIOLOGY 428 Mammalogy	3	_____
BIOLOGY 432 [M] Biology of Amphibians and Reptiles	3	_____
BIOLOGY 438 [M] Animal Behavior	3	_____

Additional electives should be selected in consultation with an academic advisor in the School of Biological Sciences.

School of Biological Sciences Requirements

- A minimum of 120 total semester hours.
- At least 40 semester hours must be 300 and 400 level coursework.
- A minimum of 19 semester hours of core BIOLOGY courses (BIOLOGY 106; 107; 301; 370 or 372; and 395 or 403 or 405).
- An additional 21 semester hours of biological sciences coursework selected in consultation with your biology advisor. The 21 semester hours must include 15 credits of 300 and 400 level courses, six of which must be BIOLOGY taken in residence at WSU. See guidelines for the many BIOLOGY options that are available to structure your course selections.
- An overall GPA of at least 2.0 must be maintained in all college and departmental requirements.
- A maximum of four credits of coursework that are graded S,F may be used toward fulfilling School requirements or program options, and no other courses taken S,F can be applied toward fulfilling School requirements or program options.
- Two BIOLOGY courses to satisfy the "Writing in the Major" [M] requirement.
- One BIOLOGY course to satisfy the "Capstone" [CAPS] requirement.

UCORE and College of Arts and Sciences Requirements

	Grade		Credits
[ROOT]	___	Roots of Contemporary Issues	(3)
[COMM]	___	Communication OR	(3)
[WRTG]	___	Written Communication	(3)
[WRTG]	___	Written Communication	(3)
[QUAN]	___	Quantitative Reasoning	(3)
[SSCI]	___	Inquiry in the Social Sciences	(3)
[HUM]	___	Inquiry in the Humanities	(3)
[ARTS]	___	Inquiry in the Arts	(3)
[BSCI]	___	Inquiry in the Biological Sciences	(3)
[PSCI]	___	Inquiry in the Physical Sciences	(3)
[EQJS]	___	Inquiry into Equity and Justice	(3)
[DIVR]	___	Diversity	(3)
[CAPS]	___	Integrative Biology Capstone	(3)
[M]	___	Writing in the Major (Biology)	(2-4)
[M]	___	Writing in the Major (Biology)	(2-4)

Note: Three UCORE courses of 3 credits (9 credits total) may fulfill major requirements.

- ___ Foreign Language 1 yr. or 2 yrs. HS (CAS)
- ___ Upper Division 3xx-4xx (Minimum 40 credits)
- ___ Minimum Total Credits (120)
- ___ University Writing Portfolio

<https://writingprogram.wsu.edu/uwpsubmission/>