

Bachelor of Sciences - Biology Ecology Evolutionary Biology Option

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 OR		
BIOLOGY 372 [M]	General Ecology	4	_____
BIOLOGY 395	Evolutionary Medicine OR		
BIOLOGY 403	Evolutionary Biology OR		
BIOLOGY 405	Prin. of Organic Evolution	3	_____

Calculus Requirement:

MATH 140	Calculus for Life Scientists OR		
MATH 171	Calculus I	4	_____

Statistics Requirement:

STAT 212	Intro to Statistical Methods OR		
STAT 412	Stat Methods in Research I OR		
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 OR		
PHYS 201*	Physics for Sci. & Engineers I	4	_____
PHYS 102	General Physics II OR		
PHYS 202	Physics for Sci. & Engineers II	4	_____

Ecology & Evolutionary Biology Requirements:

Choose one of the following:

BIOLOGY 350	Comparative Physiology OR		
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)
[]	_____	Inquiry in [SSCI], [HUM], or [ARTS] <small>(CAS)</small>	(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)
- _____ Junior Writing Portfolio

<https://writingprogram.wsu.edu/university-writing-portfolio/>