

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:

	Semester/Year	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.

	Semester/Year	Credits	Grade
<u>Ecology Emphasis</u>			
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		Semester/Year	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.

UCORE and College of Arts and Sciences Requirements

	Grade		Credits	Semester/Year
[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/>

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.