

**BACHELOR OF SCIENCE – BIOLOGY
ECOLOGY & EVOLUTIONARY BIOLOGY OPTION**

A B.S. degree from Washington State University requires a minimum of 120 total semester hours. At least 40 semester hours must be upper division coursework. A B.S. degree in Biology requires a minimum 40 semester hours of biological science coursework. Two courses must satisfy the "Writing in the Major" [M] requirement. An overall GPA of at least 2.0 must be maintained in all college and departmental requirements.

Core Requirements:

Biological Science Core Requirements:

			<u>Grade</u>
BIOL 106	General Biology	4 hrs.	_____
BIOL 107	General Biology	4 hrs.	_____
BIOL 301	General Genetics	4 hrs.	_____
BIOL 372 [M]	General Ecology	4 hrs.	_____
BIOL 405	Prin. Org. Evolution	3 hrs.	_____

Calculus Requirement:

MATH 140	Math Life Science OR		
MATH 171	Calculus	4 hrs.	_____

Statistics Requirement:

STAT 212	Intro Stats OR		
STAT 412	Biometry OR		
PSYCH 311	Elem Stats	3-4 hrs.	_____

Chemistry Requirements:

CHEM 105*	Chemistry I	4 hrs.	_____
CHEM 106*	Chemistry II	4 hrs.	_____
CHEM 345	Organic I	4 hrs.	_____

Physics Requirements:

PHYS 101 OR 201	Physics	4 hrs.	_____
PHYS 102 OR 202	Physics	4 hrs.	_____

Ecology and Evolution Option Requirements:

Ecology and Evolutionary Biology Option Electives

A minimum of 21 hours must be selected. At least one course must be taken from each of four *different* emphasis areas. Please consult your advisor to substitute other biological science courses, including 500-level courses.

1. Physiology /Biochemistry Emphasis

MBioS 303	Biochemistry	4 hrs.	_____
BIOL 320	Plant Physiology	4 hrs.	_____
BIOL 350	Comp. Physiology	4 hrs.	_____
BIOL 353	Mammalian Physiology	4 hrs.	_____
BIOL 352	Cell Physiology OR	3 hrs.	_____
MBioS 401	Intro Cell Biology	3 hrs.	_____
BIOL 461	Env. Physiol	3 hrs.	_____

2. Ecology Emphasis

BIOL 330	Prin. of Conservation	3 hrs.	_____
BIOL 410	Marine Ecology	3 hrs.	_____
BIOL 447	Behavioral Ecology	3 hrs.	_____
BIOL 462	Community Ecology	3 hrs.	_____
BIOL 486	Marine Invert Comm	2 hrs.	_____
ENTOM 441	Insect Ecology	3 hrs.	_____

3. Animal Emphasis

BIOL 321	Animal Development	4 hrs.	_____
BIOL 322	Invertebrate Biology	4 hrs.	_____
BIOL 324	Comp Vertebrate Anat	4 hrs.	_____
BIOL 393 [M]	Seminar	2 hrs.	_____
BIOL 412	Biol. & Mgt of Fishes	3 hrs.	_____
BIOL 418	Parasitology	4 hrs.	_____
BIOL 423	Ornithology	4 hrs.	_____
BIOL 428	Mammalogy	4 hrs.	_____
BIOL 432 [M]	Biol Amph & Reptiles	4 hrs.	_____
BIOL 438 [M]	Animal Behavior	3 hrs.	_____

4. Plant Emphasis

BIOL 320	Plant Physiol	4 hrs.	_____
BIOL 332	Systematic Botany	4 hrs.	_____
BIOL 393 [M]	Seminar	2 hrs.	_____
BIOL 409	Plant Anatomy	4 hrs.	_____

**GENERAL UNIVERSITY PLUS COLLEGE OF SCIENCES
REQUIREMENTS:**

Minimum Requirements

_____	World Civilization [A]	(6)
_____	Communication [W, C]	(6)
_____	Intercultural Studies [I, G, K]	(3)
_____	Arts & Humanities [H, G]	(3)
_____	Social Sciences [S, K]	(3)
_____	Hum or Soc Sci Elect	(9)

_____	Tier III [T]	(3)
_____	Foreign Language - 1 yr. OR	
_____	2 yrs. H.S.	

_____	UPPER DIVISION	(40)
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Writing Portfolio

(<http://www.writingprogram.wsu.edu/units/writingassessment/midcollege/>). One of the above courses must also fulfill diversity [D] requirement.

*Chemistry requires a grade of C or better to progress to the next level course.