

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

A Bachelor of Science 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. in Biology requires a minimum of 19 semester hours of core BIOLOGY courses (BIOLOGY 106, 107, 301, 372 and 405 or 403). An additional 21 semester hours of biological sciences coursework selected in consultation with your biology advisor is required. The 21 semester hours must include 15 upper division credits, six of which must be BIOLOGY taken in residence at WSU. [WSU defines "In Residence" as a course taken at any campus in the WSU system, including Pullman, the branch campuses, and the Global Campus.] An overall GPA of at least 2.0 must be maintained in all college and departmental requirements. Two courses must satisfy the "Writing in the Major" [M] requirement.\*\*

### Core Requirements:

#### Biological Science Core Requirements:

			<u>Grade</u>
BIOLOGY 106	General Biology	4 hrs.	_____
BIOLOGY 107	General Biology	4 hrs.	_____
BIOLOGY 301	General Genetics	4 hrs.	_____
BIOLOGY 372 [M]	General Ecology	4 hrs.	_____
BIOLOGY 405	Prin Org Evolution OR		
BIOLOGY 403	Evolutionary Biol	3 hrs.	_____

#### Calculus Requirement:

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

#### Statistics Requirement:

STAT 212	Intro Stats OR		
STAT 412	Intro Stat Meth of Res 1 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:

PHYSICS 101* OR 201*	Physics	4 hrs.	_____
PHYSICS 102 OR 202	Physics	4 hrs.	_____

### Option Requirements (Choose 1):

BIOLOGY 350	Comp. Physiology	4 hrs.	_____
<b>OR</b>			
BIOL 420	Plant Physiol	3 hrs.	_____

Ecology Emphasis and the Evolution/Organismal Emphasis: 12 total credits from courses in the Ecology Emphasis and the Evolution/Organismal Emphasis must be selected. At least one course must be from the Ecology Emphasis and one course from the Evolution/Organismal Emphasis.

#### Ecology Emphasis

· BIOLOGY 330	Prin of Conservation	3 hrs.	_____
· BIOLOGY 410	Marine Ecology	3 hrs.	_____
· BIOLOGY 462	Community Ecology	3 hrs.	_____
· BIOLOGY 469	Eco Ecol Global Chg	3 hrs.	_____
· BIOLOGY 483[M][CAPS]	Org Glob Chg	3 hrs.	_____

#### Evolution / Organismal Emphasis

· BIOL 322 [M]	Invertebrate Biology	4 hrs.	_____
· BIOL 324	Comp Vertebrate Anat	4 hrs.	_____
· BIOL 332[M]	Systematic Botany	4 hrs.	_____
· BIOL 335[M]	Genome Biology	3 hrs.	_____
· BIOL 408 [CAPS]	Contemp Genetics	3 hrs.	_____
· BIOL 409	Plant Anatomy	4 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.	_____

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

#### UCORE REQUIREMENTS (Including CAS additional req.):

[ROOT]	___ Roots of Contemporary Issues	(3)
[COMM]	___ Communication <b>OR</b>	
[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 Creative & Professional Arts	(3)
[BSCI][PSCI][SCI]		
	___ Inquiry in the Inquiry in the Nat. Sciences	(7)
[ ]	___ Inquiry in SSCI, HUM or ARTS (CAS)	(3)
[DIVR]	___ Diversity	(3)
[CAPS]	___ Integrative Capstone	(3)
[M]	___ Writing in the major (2 courses)	

**Note: three, 3 credit (9 total credits) UCORE courses may fulfill major requirements.**

_____	Foreign Language - 1 yr. OR 2 yrs. H.S.
_____	Upper division (Minimum 40 credits)
_____	Minimum Total Credits (120)
_____	Junior Writing Portfolio

<http://universitycollege.wsu.edu/units/writingprogram/units/writingassessment/juniorwritingportfolio/guidelines/index.html>

**\*\*All official requirements for each student's specific degree are listed in the MyWSU advisement report. This sheet is meant to serve as a guide.**