UW Bothell — B.S. in Biology Degree Checklist

Requirement	Do	ne? ✓	✓ Course Num		ber	Course Title / Notes	Cr		
Foundational Math and	Scie	nce Re	equirements						
Gen. Chemistry Series			BCHEM 143+144, 153+154		4, 163+164	Gen. Chemistry I, II, III + Labs	18		
Intro Biology Series			BBIO 180, 200, 220			Intro Biology I, II, III	15		
Calculus		STMAT	1ATH 124		Calculus I				
Choose one course.		BMATI	H 144		Calculus for L	ife and Social Sciences	5		
Physics Series	j	BPHYS 114+117, 115+118			Gen. Physics I,	II + Labs; 3rd course optional	1,0		
Choose one series.		BPI	HYS 121, 122		Calc-based Phy	ys. I, II; 3rd course optional	10		
		BHLTH	/BMATH 215		Statistics for	Health Sciences			
Statistics		BIS 21	5		Understandir	ng Statistics	5		
Choose one course .		STMAT	ГН 341		Statistical Inf	erence; calculus-based	1		
Biology Core Requireme	ents								
Genetics		BBIO 360			Genetics				
Evolution	П	BBIO 466			Evolution				
Ecology	П	BES 312			Ecology				
Choose one course.		BBIO 471 - Plant Ecology			**Alt option - see Aquatic Ecology below				
Call Dialage	П	BBIO 370 BBIO 372			Microbiology I				
Cell Biology					Stem Cells				
Choose one course .		BBIO 380			Cell Biology; spring quarter fulfills Writing				
Physiology	П	BBIO 3	551		Anatomy & Physiology I				
Choose one course.		BBIO 352			Anatomy & Physiology II; 351 not prereq				
Investigative Dielem	П	BBIO 4	195	Invest	tigative Biolog	y; automatically counts	5		
Investigative Biology					rgrad Research; must petition and present				
Choose one option .		Non-credit research (internships, etc.); must petition and present.					0		
Electives / General Ed									
Riology & Society		One co	urso (usually 5 crodi	ter ac le	ow as 3 crodits)	Paviow list of antions	Е		

Liectives / Genera	ii Luuca	tion ke	quireille	=116	3
D' 0 C ' 1		_	,	- 11	_

Biology & Society	On	course (usually 5 credits; as low as 3 credits). Review list of options.							
Upper Division	 	20 credits (about 4 courses). Must be from at least two out of three	20						
Biology Electives) !	categories: A (Ecology/Evolution), B (Cell/Molec), C (Physio/Neuro)	20						
General Education &	Diversity (DIV); almost always also counts as A&H or SSc								
Areas of Knowledge	Co	Composition; cannot overlap with any other requirements							
Requirements	<u>.</u>	Additional Writing (C or W)							
Can overlap with	! !	Arts & Humanities (A&H); cannot overlap w/ SSc	15						
other requirements!	<u> </u>	Social Sciences; cannot overlap w/ A&H	15						
Other Graduation	At	east 180 total credits? Includes transfer credits.							
Requirements	At	east 45 of last 60 required credits taken at UW Bothell?	st 45 of last 60 required credits taken at UW Bothell?						

Consider a minor!

Minors are optional sets of coursework you can take in addition to your major. These are common minors that Biology students take, but they are not the only ones!

Use the degree audit to explore additional minors and talk to your advisor to declare a minor.

Updated: 7/5/2023 Contact: sciadv@uw.edu

Chree of the following: Organic Chem I - BCHEM 237 OChem II+Lab - BCHEM 238+241					
OChem II+Lab - BCHEM 238+241					
At least one more chemistry					
lab course. Can fulfill with a					
course below marked with *.					
electives from at least three					
he following areas (18+ cr.):					
Analytical Chemistry					
BCHEM *315, 350, *426					
Biochemistry					
BCHEM 310, 364, 365,					
*366, 375, 494					
Chemistry Education					
BCHEM 497					
Inorganic Chemistry					
BCHEM 312, 313					
Physical Chemistry					
BCHEM 401, 402, *404					

Chamistry Minor

	Neuroscience Minor						
All	three of the following:						
	Behavioral Neurosci - BBIO 320						
	Anat & Phys I + Lab - BBIO 351						
	Neurobiology - BBIO 480						
Tw	o electives from the following:						
	Beh. Endocrinology - BBIO 355						
**	BBIO393 SPR24: Neurodevelopmer						
	Diseases Nerv. Syst BBIO 390 Spec. Topics Neuro - BBIO 394						
	Abnormal Psych BIS 270						
	Clinical Psych BIS 422						
lmp	oortant notes:						
[1]	BBIO 310 no longer counts						
for	the Neuroscience minor.						
[2]	BBIO 480 & BBIO 320 cannot also						
	count for the Biology major.						
	[3] Other "BBIO" courses can count						
for	the Biology major, but the "BIS"						
cou	rses cannot .						

-	١, ١١	11, 111	III					
I, III	I, II	II, III	varies					
I	I, II	II, III	III					
	I, II	II, III	III					
✓	√	√						
/	✓							
√	√	√	√					
✓	√	✓	✓					
/	/	✓	1					
√	√	√	varies					
√	√	✓	_					
√	√	✓	_					
Not o	ffered i	in 2023	-2024					
✓	_	✓	_					
Not o	ffered i	in 2023	-2024					
✓	_	√	-					
√	√	_	varies					
_	✓	√	_					
√	√	√	✓					
Arrange w/ instructor.								
Arrange w/ organization.								
How to find options								

Quarters Offered (tentative)

AUT WIN SPR SUM

How to find options

Read next page or uwb.edu/biologicalsciences/curricula

Use the search tool on MyPlan to look up these abbreviations: DIV, C, W, A&H, or SSc myplan.uw.edu/course

Check your degree audit! myplan.uw.edu/audit

	Health Studies Minor						
Bot	Both of the following:						
	Intro Public Health - BHS 201						
	Social Dimensions - BHS 302						
On	e of the following:						
	Health Research - BHS 300						
	Social Research - BIS 312						
	Sci. Methods & Pract - BES 301						
_	One elective from list at:						
On	e elective from list at:						
On	e elective from list at: uwb.edu/healthstudies/						
On	I						
	uwb.edu/healthstudies/						
Eco	uwb.edu/healthstudies/ degree-req/hs-electives						
Eco	uwb.edu/healthstudies/ degree-req/hs-electives ological Restoration Minor						
Eco	uwb.edu/healthstudies/ degree-req/hs-electives clogical Restoration Minor four of the following:						

for courses. Two electives from list at: uwb.edu/ias/undergraduate/ minors/ecological-restoration

UW Bothell — B.S. in Biology Elective Options

Updated: 10/26/2023

Contact: sciadv@uw.edu

The Biology Major has **TWO** separate elective requirements:

- [1] One "Biology & Society" course. This course can often fulfill Social Science (SSc) or other General Education credit.
- [2] 20 credits (usually 4 courses) of "Biology Elective" coursework, taken from at least two out of three categories (A, B, or C).

Requirement overlap: One course cannot fulfill more than one requirement for your major (except General Education reqs).

Substitutions: To use a course not on the list of approved courses below, submit a petition at uwb.edu/biological-sciences/forms
2023-2024 schedule is TENTATIVE: Actual offerings will vary depending on multiple factors, <a href="https://www.especially.e

	√ √		is TENTATIVE: Actual offerings will vary depending on a Course Title / Notes		Gen Ed		A	В	<u>ei</u> (1100	1130			CDD
Cat.	Ť		*	U.		DQ3			_		AUT	WIN	SPR
	⊢		Genes, Genomes, and Heredity	5	SSc	<u> </u>			_		_	√	
	_		Cancer: Biology, Risk, and Treatment	5	_	V		_	_		- Y		_
Only	L.		SPECIAL TOPICS: History and Philosophy of Science	-		V							V
. 0	⊢		Nature in the Northwest Intro to Environmental Issues	5	SSc	·/							
ciety y Ele	⊢		Environmental Justice	2	SSc	·/						ct Sch	
Soci ogy	\vdash		Ethics and the Environment	5	SSc	·/					Inter	discipl	inary
& S iolo	⊢		Bioethics	5	SSc	·/					Arts	& Scie	nces
	⊢		Environmental History of PNW Bioregion	5	SSc	√					at <u>iasa</u>	dv@u	w.edu
Biology ever "B	⊢		Environmental Education	5	330	√	_	_			for as:	sistanc	e with
Bic Nev	⊢		Critical Physical Geography	-	DIV	-/	_	_			BES, E	IS, or E	BISSTS
ے ا	Н		Conservation and Sustainable Development	5	SSc	\ -/	_	_	_		0	ffering	s.
	Н		Science, Technology, and Society	5	SSc	√		_	_			Ü	
	Н		Marine Biology	5	_	_	1	_	_		Not i	1 2023 [.]	-2024
₹	Н		Salmon and Society	5	SSc	√	1	_	_			1 2023	
versity)	**		SPECIAL TOPICS: Aquatic Ecology Section	5	_	_	\/	_	_		-	_	
A /oiv	一		Ecology	5	_	_	√	_	_		Contr	ot Colo	ool of
gory ution/	Н		Ecological Methods	5	_		<i></i>	_	_			ct Sch	
ategory Evolution	Н		Limnology (the study of lakes)	5	_	_	√ 	_	_			discipl	-
Cat /Eve	⊢		Intro to Restoration Ecology	5	SSc	_	<i></i>	_	_			k Scien	
C (Ecology/	Н		Conservation Biology	5	_	√	√	_	_		iasadv	@uw.e	du for
ojo:	Н		Marine Diversity and Conservation	5	SSc	_	√	_	_		help v	vith BE	S, BIS,
Ψ.	Н		Geographic Information Systems	5	SSc	_	√	_	_		or BIS	STS co	urses.
			Computational Biology / Intro to Bioinformatics	5	_	_	_	√	_		_	√	_
lar	Н		Biochemistry I	5	_		_	√	_		\checkmark	_	√
/ B lecular)	Н		Biochemistry II	5	_		_	√	_		_	√	_
gory	Н		Biochemistry Lab	3	_		_	√	_		\checkmark	-	_
a) 🔨	г		Stem Cells	5	_	_	_	✓	_		Not i	1 2023	2024
Cat Lla	Г	BBIO 375	Molecular Biology	5	_	_	_	√	_		√	_	√
Cato Cellular	Г	BBIO 380	Cell Biology; spring quarters & AUT23 fulfills Writing	5	_	_	_	✓	_		W	_	W
9		BBIO 460	Developmental Biology	5	_	_	_	✓	_		_	√	_
	Т	BBIO 310	Brain and Behavior; can't use for Neuro minor	5	_	√	_	_	√		√	_	√
_		BBIO 320	Behavioral Neuro; not Bio Elective if in Neuro minor	5	_		_	_	✓		_	✓	_
C uro)	Г	BBIO 351	Anatomy and Physiology I	5	_		_	_	✓		✓	√	_
~ 0		BBIO 352	Anatomy and Physiology 2	5	_		_	_	√		_	√	√
s ~		BBIO 355	Behavioral Endocrinology	5	_		_	_	√			✓	
Cate ysio		BBIO 390	Diseases & Disorders of the Nervous System	5	_	_	_	_	✓		_	√	_
Cate ₍ (Physio			Special Topics in Neuroscience	5	_	_	_	_	✓		√	✓	_
Ξ			Neurobiology; not Bio Elective if in Neuro minor	5	_	_	_	_	✓			_	✓
	**		SPECIAL TOPICS: Neurodevelopment Section	5	_	_	_	_	√			_	\checkmark
le ies			Microbiology I + Lab	5	_	_	✓	✓	_		√	_	\checkmark
Multiple Categories			Bioinformatics	5	_	_	✓	✓	_		Not in	ո 2023 [.]	-2024
Aulteg			Microbiology II; fulfills Writing	5	_	_	✓	✓	_		_	W	_
S S			Animal Behavior	5	_	_	\checkmark	_	√		_	-	√
			Seminar in Biology									eck wh	
es	*		Special Topics in Biology; lower level		Elective	_	-				sched		
Varies	**		Special Topics in Biology; upper level	_	redits fo				-		myp	lan.uw	.edu
_			Investigative Biology		check w	ith you	r acade	emic ad	visor			course	
Misc			Study Abroad: Advanced Biology		for help	ensuri	ng thes	se will f	ulfill			Arrange	
Σ			Independent Study in Biology		your	degree	e requir	ements	S.		430/4	98/499	with
		BBIO 499	Undergraduate Research in Biology								in	structo	r.