

UW Bothell — B.S. in Biology Degree Checklist [Autumn 2020 - forward]

Quarters Offered

Admission Prereqs	✓	Course Number	Course Title	Cr.	AUT	WIN	SPR	SUM
Gen. Chem Series		B CHEM 143 + 144, 153 + 154, 163 + 164	Gen. Chem I, II, III + labs	18	I	I, II	II, III	III
Intro Biology Series		B BIO 180, 200, 220	Intro Biology I, II, III + labs	15	I, III	I, II	II, III	III

Core Requirements

<b>Physics I &amp; II</b> <i>Choose one series.</i>	B PHYS 114 + 117, 115 + 118	General Physics I, II + labs	10	I	I, II	II, III	III
	B PHYS 121, 122	Calculus-based Physics I, II + labs	10	I	I, II	II, III	III
<b>Calculus</b> <i>Choose one course.</i>	STMATH 124	Calculus I	5	✓	✓	✓	✓
	B MATH 144	Calculus for the Life and Social Sciences	5	✓	✓	✓	—
<b>Statistics</b> <i>Choose one course.</i>	B MATH 215	Statistics for Health Sciences	5	✓	✓	✓	✓
	STMATH 341	Introduction to Statistical Inference	5	✓	✓	✓	—
<b>Genetics</b>	B BIO 360	Introduction to Genetics	5	✓	✓	✓	✓
<b>Evolution</b>	B BIO 466	Evolution	5	✓	✓	✓	?
<b>Ecology</b> <i>Choose one course.</i>	BES 312	Ecology	5	✓	✓	✓	—
	B BIO 471	Plant Ecology + lab	5	—	—	✓	—
<b>Cell Biology</b> <i>Choose one course.</i>	B BIO 370	Microbiology I + lab	5	✓	—	✓	—
	B BIO 372	Stem Cells	5	—	✓	—	?
	B BIO 380	Cell Biology [spring class fulfills Writing]	5	✓	—	W	—
<b>Physiology</b> <i>Choose one course.</i>	B BIO 351	Anatomy and Physiology I + lab	5	✓	✓	—	—
	B BIO 352 [351 is not prereq]	Anatomy and Physiology II + lab	5	—	✓	✓	—
	B BIO 353	Plant Physiology	5	—	—	—	?
<b>Investigative Biology</b> <i>Choose one option.</i> <a href="http://uwb.edu/biology">uwb.edu/biology</a>	B BIO 495	Investigative Biology	5	✓	✓	✓	✓
	B BIO 499 or other research for credit. Must <b>petition</b> and <b>present</b> . Instructor Permission Req'd.		5	see biology website			
	Non-credit internship or other experience. Must <b>petition</b> and <b>present</b> .		0				

Elective Requirements

<b>Biology &amp; Society</b>				See next page.
<b>Upper Division</b>				See next page. Must select from <b>at least two different categories (A, B, C).</b>
<b>Biology Electives</b>				
<i>Choose 20 credits of elective coursework (usually four courses).</i>				
<b>General Education &amp; Area of Knowledge Coursework</b> <i>Can overlap with other degree requirements!</i>	Diversity (DIV) [can be combined with VLPA or I&S]		3	You can search on your <b>MyPlan</b> app for courses that fulfill these requirements!
	Composition (C)		5	
	Additional Writing (C or W)		10	
	Visual, Literary, and Performing Arts (VLPA)		15	
	Individuals and Societies (I&S)		15	
<b>Other Graduation Requirements</b>	At least 180 total credits? [accepted transfer + UW credits]			Check your <b>degree audit!</b>
	At least 45 of last 60 credits taken at UW Bothell as a matriculated student?			

**Minors**  
Minors are optional sets of coursework you can do in addition to your major. Major courses and minor courses **can** overlap in most cases. UW Bothell Biology students often take the minors to the right, but you can take any minor at any UW campus!

**Chemistry Minor**  
*Note: The Chemistry Minor is undergoing changes beginning AUT20. Visit [www.uwb.edu/chemistry](http://www.uwb.edu/chemistry) for updates.*  
The Neuroscience minor will require BBIO 320 instead of BBIO 310 beginning AUT20.

**Neuroscience Minor**  
Complete the Intro Biology series, plus **all three** of the following:

BBIO 320 (Brain & Behavior)	5
BBIO 351 (Anatomy & Physio I)	5
BBIO 480 (Neuroscience)	5

Choose **10 credits** of elective work:

BBIO 355 (Behav. Endocrinology)	5
BBIO 385 (Animal Behavior)	5
BBIO 390 (Diseases & Disorders)	5
BIS 270 (Abnormal Psychology)	5
BIS 422 (Clinical Psychology)	5

**Health Studies Minor**  
In addition to your major coursework, complete **both** of the following:

BHS 201 (Intro to Public Health)	5
BHS 302 (Soc. Dimensions Hlth)	5

Choose **one** Health Research course:

BHS 300 (Health Research)	5
BIS 312 (Social Research)	5
BES 301 (Science Meth. & Pract.)	5

Choose **one** BHS/BHLTH course on list: [uwb.edu/healthstudies/degree-req/hs-electives](http://uwb.edu/healthstudies/degree-req/hs-electives)

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Requirement	I&S?	Course Number	Course Title	Cr.	AUT	WIN	SPR	SUM	
<b>Biology &amp; Society</b>	✓	B BIO 231	Genes, Genomes, and Heredity	5	—	✓	✓	—	
<i>Choose one course.</i>	—	B BIO 233	Cancer: Biology, Risk, and Treatment	5	—	—	✓	—	
<b>Many <i>Biology and Society</i> courses can also fulfill I&amp;S credit! See "I&amp;S" column.</b>	✓	B BIO 285	Seminar in Biology [see note on left]	3	—	—	✓	—	
	—	B BIO 310	Brain and Behavior	5	✓	—	✓	—	
	✓	B BIO 335	Salmon and Society	5	✓	—	—	—	
	—	BES 485	Conservation Biology (Once a yr; <b>either WIN or SPR</b> )	5	—	✓	✓	—	
	<b>Estimated offerings for BES, BIS, and BISSTS courses are subject to change.</b>	—	BES 489	Pacific Northwest Ecosystems	5	—	—	✓	—
	—	BIS 241	Nature and the Northwest	5	—	—	✓	✓	
	✓	BIS 243	Environmental Issues	5	✓	✓	✓	—	
	✓	BIS 307	Environmental Justice	5	✓	✓	—	—	
	✓	BIS 246	Intro to Sustainability (Once a yr; <b>either AUT or SPR</b> )	5	✓	—	✓	—	
	✓	BIS 356	Ethics and Environment	5	—	✓	—	—	
	✓	BIS 380	Bioethics	5	✓	✓	✓	—	
	✓	BIS 391	Environmental History of the Pacific Northwest	5	—	—	✓	—	
	—	BIS 405	Environmental Education	5	✓	—	—	—	
	✓	BIS 459	Conservation and Sustainable Development	5	—	✓	—	—	
	✓	BISSTS 307	Science, Technology, and Society	5	✓	—	✓	—	
<b>Biology Electives</b> <i>Choose 20 credits of elective coursework (usually four courses).</i>  <i>You must select electives from at least two different categories:</i> <b>A - Ecology/Diversity</b> <b>B - Cell/Molecular</b> <b>C - Physio/Neurobiology</b>  <i>Miscellaneous electives do not count towards any category, but can be used towards the 20-credit elective total.</i>  <b>One course, one requirement.</b> Although many courses can fulfill elective credit <b>or</b> a core requirement, a single course cannot fulfill both.  <b>Estimated offerings</b> <i>BES and BIS courses are subject to change.</i>  <b>B BIO 480</b> can count for the Biology major or Neuroscience minor, but <b>not both</b> .	<b>Category</b>	B BIO 330	Marine Biology	5	—	—	✓	—	
		B BIO 335	Salmon and Society [fulfills I&S credit]	5	✓	—	—	—	
		B BIO 471	Plant Ecology + lab	5	—	—	✓	—	
		BES 312	Ecology	5	✓	✓	✓	—	
		BES 316	Ecological Methods	5	—	—	✓	—	
		BES 330	Limnology (offered <b>every other SPR</b> )	5	—	—	✓	—	
		BES 362	Introduction to Restoration Ecology	5	✓	—	✓	—	
		BES 462/3/4	Restoration Ecology Capstone [must take all three]	10	I	II	III	—	
		BES 485	Conservation Biology ( <b>either WIN or SPR</b> )	5	—	✓	✓	—	
		BIS 342	Geographic Information Systems [fulfills I&S credit]	5	✓	✓	✓	—	
	<b>A or B</b>	B BIO 370	Microbiology I + lab	5	✓	—	✓	—	
		B BIO 373	Medical Microbiology* new course offered Win	5	—	✓	—	—	
		B BIO 383	Bioinformatics	5	—	—	✓	—	
		B BIO 470	Microbiology II (prerequisite: BBIO 370)	5	—	✓	—	—	
	<b>A or C</b>	B BIO 385	Animal Behavior	5	—	✓	—	—	
	<b>B</b>	B BIO 340	Computational Biology	5	—	✓	—	—	
		B BIO 364	Biochemistry I	5	✓	✓	✓	✓	
		B BIO 365	Biochemistry II	5	✓	✓	✓	—	
		B BIO 366	Biochemistry Lab	3	✓	✓	—	—	
		B BIO 372	Stem Cells	5	—	✓	—	?	
		B BIO 375	Molecular Biology	5	✓	—	✓	—	
		B BIO 380	Cell Biology [spring class fulfills Writing]	5	✓	—	W	—	
	<b>C</b>	B BIO 460	Developmental Biology	5	—	—	—	—	
		B BIO 310	Brain and Behavior	5	✓	—	✓	—	
		B BIO 320	Behavioral Neuroscience *new course coming WIN21	5	—	✓	—	—	
		B BIO 351	Anatomy and Physiology I + lab	5	✓	✓	—	—	
		B BIO 352	Anatomy and Physiology II + lab	5	—	✓	✓	—	
		B BIO 355	Behavioral Endocrinology	5	—	—	✓	—	
		B BIO 390	Diseases & Disorders of the Nervous System	5	—	✓	—	—	
		B BIO 394	Special Topics in Neuroscience	5	—	✓	—	—	
	<b>Misc.</b>	B BIO 480	Neuroscience [see note on left]	5	—	—	✓	—	
		B BIO 485	Advanced Seminar in Biology	3	—	✓	✓	—	
		B BIO 495	Investigative Biology	5	✓	✓	✓	✓	
B BIO 498 or 499		Independent Study or Undergraduate Research in Biology	1-5	Check with instructor.					

**Subject to change:** All course options, requirements, and policies are subject to change.  
Check with your advisor to confirm your courses!

**More options:** This resource only lists courses offered within the past two years.  
Visit [uwb.edu/biological-sciences/curricula](http://uwb.edu/biological-sciences/curricula) for the full list.

**Petitions:** Visit [www.uwb.edu/biological-sciences/forms](http://www.uwb.edu/biological-sciences/forms) if you want to try substituting alternative coursework for any requirement.





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