

UW Bothell — B.S. in Biology Degree Checklist [Autumn 2018 - Summer 2019]

Quarters Offered

Admission Prerequisites	✓	Course Number	Course Title	Cr.	AUT	WIN	SPR	SUM
Gen. Chemistry 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	—

Core Requirements

Course	Course Number	Course Title	Cr.	I	II	III	IV
Physics I & II <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
Calculus <i>Choose one course.</i>	STMATH 124	Calculus I	5	✓	✓	✓	✓
	B MATH 144	Calculus for the Life and Social Sciences	5	✓	✓	✓	—
Statistics <i>Choose one course.</i>	B MATH 215	Statistics for Health Sciences	5	✓	✓	✓	✓
	STMATH 341	Introduction to Statistical Inference	5	✓	✓	✓	—
Genetics	B BIO 360	Introduction to Genetics	5	✓	✓	✓	✓
Evolution	B BIO 466	Evolution	5	✓	✓	✓	?
Ecology <i>Choose one course.</i>	BES 312	Ecology	5	✓	✓	—	—
	B BIO 471	Plant Ecology + lab	5	—	—	✓	—
Cell Biology <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	—
Physiology <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	—	—	—	✓
Investigative Biology <i>Choose one option. Visit uw.edu/biology for info.</i>	B BIO 495	Investigative Biology	5	✓	✓	✓	✓
	B BIO 499 or other research for credit. Must petition and present .		5	Check with instructor.			
	Non-credit internship or other experience. Must petition and present .		0	Check with internship.			

Elective Requirements

Biology & Society				See next page.
Upper Division Biology Electives <i>Choose 20 credits of elective coursework (usually four courses).</i>				See next page. Must select from at least two different categories (A, B, C).
General Education & Area of Knowledge Coursework <i>Can overlap with other degree requirements!</i>	Diversity (DIV) [can be combined with VLPA or I&S]		3	You can search on your MyPlan 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		
Other Graduation Requirements	At least 180 total credits? [accepted transfer + UW credits]			Check your degree audit!
	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.

UWB Biology students often take the minors to the right, but you can take any minor at any UW campus!

Questions?

Contact stemadv@uw.edu!

Chemistry Minor	
<i>Complete the General Chemistry series, plus 30 credits of 200+ level BCHEM coursework. Common choices include, but are not limited to:</i>	
BCHEM 237 (Organic Chem I)	4
BCHEM 238+241 (OChem II + lab)	7
BCHEM 239+242 (OChem III + lab)	7
BBIO/BCHEM 364 (Biochem I)	5
BBIO/BCHEM 365 (Biochem II)	5
BBIO/BCHEM 366 (Biochem Lab)	3
BBIO/BCHEM 375 (Molecular Bio)	5
Other:	

Neuroscience Minor	
<i>Complete the Intro Biology series, plus all three of the following:</i>	
BBIO 310 (Brain & Behavior)	5
BBIO 351 (Anatomy & Physio I)	5
BBIO 480 (Neuroscience)	5
<i>Choose 10 credits of elective work:</i>	
BBIO 355 (Behav. Endocrinology)	5
BBIO 385 (Animal Behavior)	5
BBIO 394 (Special Topics Neuro)	5
BIS 270 (Abnormal Psychology)	5
BIS 422 (Clinical Psychology)	5
Other:	

Health Studies Minor	
<i>In addition to your major coursework, complete both of the following:</i>	
BHS 201 (Intro to Public Health)	5
BHS 302 (Soc. Dimensions Hlth)	5
<i>Choose one Health Research course:</i>	
BHS 300 (Health Research)	5
BIS 312 (Social Research)	5
BES 301 (Science Meth. & Pract.)	5
<i>Choose one BHS/BHLTH course on list: uw.edu/healthstudies/degree-req/hs-electives</i>	
	5

Requirement	I&S?	Course Number	Course Title	Cr.	AUT	WIN	SPR	SUM
Biology & Society <i>Choose one course.</i>	✓	B BIO 231	Genes, Genomes, and Heredity	5	—	✓	—	—
	—	B BIO 233	Cancer: Biology, Risk, and Treatment	5	—	—	✓	—
<i>Many Biology and Society courses can also fulfill I&S credit! See "I&S" column.</i>	✓	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 489	Pacific Northwest Ecosystems	5	—	—	✓	—
	✓	BIS 240	Sustainable Practices	5	✓	—	✓	✓
	—	BIS 241	Nature and the Northwest	5	—	—	✓	✓
	✓	BIS 243	Environmental Issues	5	✓	✓	✓	—
	✓	BIS 307	Environmental Justice	5	✓	✓	—	—
	✓	BIS 356	Ethics and Environment	5	✓	✓	—	—
	✓	BIS 380	Bioethics	5	✓	✓	✓	—
	✓	BIS 391	Environmental History of the Pacific Northwest	5	—	—	✓	—
<i>B BIO 285 is accepted on case-by-case basis. Check with your advisor.</i>	—	BIS 405	Environmental Education	5	✓	—	—	—
	✓	BIS 459	Conservation and Sustainable Development	5	—	✓	—	—
	✓	BISSTS 307	Science, Technology, and Society	5	✓	—	✓	—

Requirement	Category	Course Number	Course Title	Cr.	AUT	WIN	SPR	SUM
Biology Electives <i>Choose 20 credits of elective coursework (usually four courses).</i>	A	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 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	5	✓	✓	—	—
		BES 488	Wetland Ecology	5	—	—	✓	—
		<i>Miscellaneous electives do not count towards any category, but can be used towards the 20-credit elective total.</i>	A or B	B BIO 370	Microbiology I + lab	5	✓	—
B BIO 383	Bioinformatics			5	—	—	✓	—
B BIO 470	Microbiology II			5	—	✓	—	—
A or C	B BIO 385		Animal Behavior	5	—	✓	—	—
<i>One course, one requirement. Although many courses can fulfill elective credit <u>or</u> a core requirement, a single course cannot fulfill both.</i>	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 BIO 460	Developmental Biology	5	✓	—	—	—
<i>Estimated offerings for BES and BIS courses are subject to change.</i>	C	B BIO 310	Brain and Behavior	5	✓	✓	✓	—
		B BIO 351	Anatomy and Physiology I + lab	5	✓	✓	—	—
		B BIO 352	Anatomy and Physiology II + lab	5	—	✓	✓	—
		B BIO 353	Plant Physiology	5	—	—	—	✓
		B BIO 355	Behavioral Endocrinology	5	—	—	✓	—
		B BIO 394	Special Topics in Neuroscience	5	—	✓	—	—
		B BIO 480	Neuroscience [see note on left]	5	—	—	✓	—
<i>B BIO 480 can count for the Biology major or Neuroscience minor, but not both.</i>	Misc.	B BIO 485	Advanced Seminar in Biology	3	—	✓	✓	—
		B BIO 495	Investigative Biology	5	✓	✓	✓	✓
		B BIO 498	Independent Study in Biology	1-5	Check with instructor.			
		B BIO 499	Undergraduate Research in Biology	1-5	Check with internship.			

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 for the full list.

Petitions: Visit uwb.edu/biological-sciences/petitions if you want to try substituting alternative coursework for any requirement.