

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

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/BHLTH 215/BIS 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 393 (with Dr. Jensen)	Field Ecology + lab (possible new course)	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 quarter 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.</i>	B BIO 495	Investigative Biology	5	✓	✓	✓	✓
	B BIO 499 or other research for credit. Must <u>petition</u> and <u>present</u> . Instructor Permission Req'd.		5	see biology website			
	Non-credit internship or other experience. Must <u>petition</u> and <u>present</u> .		0				

Elective Requirements

Biology & Society	choose one Bio & Society course			See next page.
Upper Division Biology Electives	300 level or above upper division approved Biology electives	usually four courses; must meet two out of three categories: A, B, and/or C	20	See next page.
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. Students can complete any minor. Examples include chemistry, neuroscience, and Health Studies. **BBIO 480 cannot count toward biology major electives if doing neuroscience minor.**

Chemistry Minor	Neuroscience Minor	Health Studies Minor
See website for complete requirements	Complete the Intro Biology series, plus all three of the following:	In addition to your major coursework, complete both of the following:
BCHEM 143+144, 153+154, 163+164	BBIO 320 Behavioral Neuroscience	BHS 201 (Intro to Public Health)
BCHEM 237	BBIO 351 Anatomy & Physio I	BHS 302 (Soc. Dimensions Hlth)
BCHEM 238	BBIO 480 Neuroscience	Choose one Health Research course:
BCHEM 241	Choose 10 credits of elective work:	BHS 300 (Health Research)
18 or more upper division credits	BBIO 355 (Behav. Endocrinology)	BIS 312 (Social Research)
consisting of 5 or more classes	BBIO 385 (Animal Behavior)	BES 301 (Science Meth. & Pract.)
from three of five specific areas	BBIO 390 (Diseases & Disorders)	Choose one BHS/BHLTH course on list:
and one upper division level lab	BBIO 394 (special topics)	uwb.edu/healthstudies/degree-req/
See UWB chemistry website and	BIS 270 (Abnormal Psychology)	hs-electives
minor degree audit for details	BIS 422 (Clinical Psychology)	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 232	Embryos, Genes and Reproductive Technology	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> <i>Estimated offerings for BES, BIS, and BISSTS courses are subject to change.</i> <i>B BIO 285, 293, and all special topics courses accepted on case-by-case basis. Check with your advisor. BBIO 293 is often but not always taught as BIO&SOC; see time schedule each quarter to verify;</i>	✓	B BIO 285	Seminar in Biology [see note on left]	3	—	—	?	—	
	—	B BIO 293	Special Topics [not always offered as Bio&Soc; see notes]	5	✓	✓	✓	?	
	—	B BIO 310	Brain and Behavior	5	✓	—	✓	—	
	✓	B BIO 335	Salmon and Society	5	✓	—	—	—	
	—	BES 485	Conservation Biology (Once a yr; either WIN or SPR)	5	—	✓	✓	—	
	—	BES 489	Pacific Northwest Ecosystems	5	—	—	✓	—	
	—	BIS 241	Nature and the Northwest	5	—	—	✓	✓	
	✓	BIS 243	Environmental Issues	5	✓	✓	✓	—	
	✓	BIS 246	Intro to Sustainability (Once a yr; either AUT or SPR)	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	—	—	✓	—	
	—	BIS 405	Environmental Education	5	✓	—	—	—	
	✓	BIS 459	Conservation and Sustainable Development	5	—	✓	—	—	
	✓	BISSTS 307	Science, Technology, and Society	5	✓	—	✓	—	
	—	Special Topics	Approved case by case Courses (B BIO 393, BES 397/497, BISSTS 397/497)	5	?	?	?	?	
Biology Electives <i>Choose 20 credits of elective coursework</i>	Category	B BIO 330	Marine Biology	5	—	—	✓	—	
		B BIO 335	Salmon and Society [fulfills I&S credit]	5	✓	—	—	—	
		B BIO 393	special topics [NOTE: SPR22: Entomology; Field Ecology]	5	—	—	✓	—	
		B BIO 471	Plant Ecology + lab [not offered SPR22; see advisor]	5	—	—	—	—	
		BES 312	Ecology	5	✓	✓	✓	—	
		BES 316	Ecological Methods	5	—	—	✓	—	
		BES 330	Limnology (offered every other SPR)	5	—	—	✓	—	
		A	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 (either WIN or SPR)	5	—	✓	✓	—	
		BES 489	Pacific Northwest Ecosystems	5	?	?	?	—	
		BES 490	Pacific Northwest Plants in Restoration and Conservation	5	?	?	?	—	
		BIS 306	Marine Diversity and Conservation	5	—	?	?	—	
		BIS 342	Geographic Information Systems [fulfills I&S credit]	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 373	Medical Microbiology* new course offered WIN22			5	—	✓	—	—	
B BIO 383	Bioinformatics			5	—	—	✓	—	
B BIO 470	Microbiology II [prerequisite: BBIO 370; fulfills Writing]			5	—	W	—	—	
A or C	B BIO 385			Animal Behavior	5	—	✓	—	—
One course, one requirement. Although many courses can fulfill elective credit <u>or</u> core requirement, a single course cannot fulfill both.	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 [AUT21/WIN22 this academic year]	5	✓	✓	—	—	
		B BIO 380	Cell Biology ["W" in SPRING quarter only]	5	✓	—	W	—	
		B BIO 393	Epigenetics [New Class SPR22!]	5	—	—	✓	—	
		B BIO 460	Developmental Biology	5	—	—	—	—	
<i>Estimated offerings BES and BIS courses are subject to change.</i> <i>B BIO 480 can count for the Biology major or Neuroscience minor not both.</i>	C	B BIO 310	Brain and Behavior	5	✓	—	✓	—	
		B BIO 320	Behavioral Neuroscience (req'd for neuroscience minor)	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 BIO 480	Neuroscience [see note on left]	5	—	—	✓	—	
Misc.	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.					
		NOTE:	All listed (page 1 & 2) course options, requirements, and policies listed are subject to change; checklist shows typical offerings but may change in given qtr.						

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