

Bachelor of Science - Biology

OSU Graduation Requirements:

Students pursuing a degree at OSU must meet the following requirements in addition to program and college requirements.

- 180—total number of credits required to graduate from OSU
- 60—number of upper division credits required (300-400 level courses)
- Maintain a 2.0 or better university GPA
- Max 18 course withdraws (W grade)
- Max 11 credits PAC

BACCALAUREATE CORE Requirements-

- Search Bacc Core classes in the Schedule of Classes.
- Transfer students who have an AAOT have all Skills and Perspectives completed.
- Students with AAOT still need to complete Synthesis for Bacc Core.

Skills		Grade
Lifetime Fitness (2cr)	HHS 231 (2cr)	
Lifetime Fitness PAC (1cr)	Physical Activity Course (PAC)	
Mathematics (3-4cr)	Fulfilled by major; must complete in 1st 45 OSU credits	
Writing I (4cr)	WR 121z	
Writing II (4cr)	Fulfilled by major; must complete 1st 90 credits (45 if transfer)	
Speech (4cr)	Fulfilled by major; must complete 1st 45 credits (45 if transfer)	
Perspectives: No more than two courses from	n the same department may be used to satisfy the Perspectives	
Categories.		
Cultural Diversity (3-4cr)		
Literature & Arts (3-4cr)		
Soc. Processes & Institutions	PSY for pre-health professions	
Western Culture (3-4cr)		
Physical Science (4cr)	Fulfilled by Major (CH 2XX sequence)	
Biological Science (4cr)	Fulfilled by Major (BI 2XX sequence)	
Additional Phys or Bio Science (4cr)	Fulfilled by Major (CH 2XX & BI 2XX sequence)	
Difference, Power, & Discrimination (3-4cr)	Some major courses are also DPD courses	
Synthesis: Must be upper division and no mo	re than two courses from the same department may be used.	
Contemporary Global Issues (3-4cr)	Some major courses are also CGI courses	
Science, Tech & Society (3-4cr)	Some major courses are also STS courses	

BIOLOGY MAJOR Rules:

- **GPA requirement:** The Biology major requires a 2.0 cumulative OSU **and** major GPA to graduate. C- requirement for Biology (BI 2XX), Math (MTH) and Chemistry (CH).
- S/U and withdraw (W): Biology students cannot S/U major courses and are only allowed 18 course withdraws
- Class Retakes: OSU academic regulations often result in retakes not working the way students expect in terms of their GPA and requirements. If you are considering repeating a course you first completed at OSU or another school or you are repeating any OSU course for the third time, you should bring this to the attention of your advisor and reference Academic Regulation 20.
- Major courses are listed in order of priority. Students planning to finish in four years should average 15 credits a term.

Biology Major Requirements					
Biology Core Courses	Pre(Co)Requisites	Notes	Grade		
BI 198-Biology Seminar (1) or		Required first year at OSU; take			
BI 197: Prof. Dev. Health Professions (1)		BI 197 if pre-health			
COMM 111z – Public Speaking (4)		Must complete 1st 45 credits			
WR 227z – Technical Writing (4)	WR 121z (C-)	Must complete 1st 90 credits			
MTH 251 – Calculus I(4)	MTH 112z (C-)				
MTH 252 – Calculus II(4)	MTH 251 (C-)				
ST 351 Intro to Statistical Methods (4)		MTH 111z recommended			
ST 352 Intro to Statistical Methods (4)	ST 351				
CH 231 & 261 General Chem. & Lab	MTH Placement				
(4+1)					
CH 232 & 262 General Chem. & Lab (5)	CH 231/261 (C-)				
CH 233 & 263 General Chem. & Lab (5)	CH 232/262 (C-)				
BI 221 Principles of Biology: Cells (5)	CH 231/261	May be taken concurrently			
BI 222 Principles of Biology: Organisms	BI 221 (C-)	, ,			
(4)	, ,				
BI 223 Principles of Biology: Populations	BI 221 (C-)				
(4)	, ,				
CH 331 Organic Chemistry (4)	CH 233/263 (C-)				
CH 332 Organic Chemistry (4)	CH 331 (C-)				
CH 337 Organic Chemistry Lab (4)	CH 332				
BB 450 General Biochemistry (4)	CH 332	BB 314 recommended			
BB 451 General Biochemistry (3)	BB 450				
BB 314 Cell and Molecular Biology (4)	BI 221, 222, 223 (C-); CH	Typically offered in winter			
	331	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
BI 311 Genetics (4)	BI 221, 222, 223 (C-)	Typically offered in fall			
BI 370 Ecology (3)	BI 221, 222, 223 (C-)	Typically offered in winter			
BI 445 Evolution (3)	BI 311	Typically offered in spring			
MB 302 Gen. Microbiology & 303 Lab (5)	CH 332; BI 221 and 222 (C-)	BB 314 recommended			
Physics or Computational and Quantitative		22 02 : 1000			
TRACK I:	(
PH 201, 202 & 203 General Physics (15)	MTH 112z or higher				
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TRACK II:					
BDS 211 Use, Abuse of Data (3)	MTH 251, 241 or 245	May be taken concurrently			
BB 345 Python for MB (3)	, , , , ,				
BB 485 Applied Bioinformatics (4)	BI 221 and BB 345				
GEOG 360 Geog. Info Systems (3)					
Biology and Society (Select one from the	following)	1	1		
BB 332 Molecular Medicine (3)	Any biology course	Also fulfills Bacc Core STS;			
- \-',	recommended	typically offered in fall			
MB 330 Disease and Society (3)		Also fulfills Bacc Core DPD;			
, , ,		typically offered in winter			
AEC 352: Environmental Econ & Policy	ECON 201	Also fulfills BACC Core CGI;			
		typically offered in winter			
FW 350: Endangered Species, Society	FW 251 recommended	Also fulfills Bacc Core STS;			
and Sustainability		typically offered in winter			
Z 349 Biodiversity (3)		Also fulfills Bacc Core CGI;			
, \-,		typically offered in spring			
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Organismal Biology (Select one from the	following)				
Z 477 Aquatic Entomology (4)	BI 22X (C-), junior standing	Typically offered in fall			
Z371 Vertebrate Bio. & Z 372 Lab (3+2)	BI 221, 222, 223 (C-)	Offered in spring; cannot			
		double-count for track req.			
Physiology (Select one from the following	g)				
Z 423 Environmental Physiology (3)	BI 22X (C-); CH 233/263 (C-)	Typically offered in fall			
Writing Intensive Course (WIC) (select one of the following or see option)					
BI 319 Critical Thinking & Comm. (3)	BI 221, 222, 223 (C-), ST 351	Offered Spring 2024			
BI 371 Ecological Methods (3)	BI 370	Not offered Spring 2024			
MB 385 Emerging Infectious Diseases	BI 221, 222, 223	Offered Spring 2024			
and Epidemics (3)					
Experiential Learning or Integrative Biology Elective (Complete one of the two tracks below)					
Track I: Experiential Learning					
BI 410: Internship (3), BI 401: Research	Dept approval required				
(3), or BI 309 (3) Teaching Practicum					
Track II: Integrative Biology Course (select one course)					
Z 371 Vertebrate Bio. AND Z 372 Lab	BI 211, 212, 213 (C-)	Cannot double count in major;			
(3+2)		offered Spring 2024			
BB 315 Molecular Bio Lab (3)	Pre or co-req BB 314	Offered Winter 2024			
BI 375 Field Methods Eco. Restoration		Requires instructor approval;			
(4)		offered Summer 2024			
BI 498 Senior Biology Major Field Test -)					
BI 498 (0 credits)	Register your last term; you will need to complete Canvas module.				

^{*}Disclaimer: Information is for OSU-Cascades <u>only</u> and is subject to change with curriculum changes. Catalog year refers to the year students are admitted to OSU and declare the Biology Major.