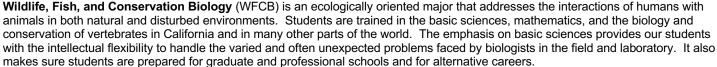
WFCB Bachelors of Science (BS) Requirements⁺





Preparatory Subject Matter Requirements (2023–2024)

Preparatory Subject Matt	ter (57-59 Units)	Quarter(s) Offered***	Units	Completed	Notes			
Written Expression								
University Writing Program 1	Expository Writing	I, II, III, IV	4					
Oral Expression (Choose one of the following)								
	ly CMN 1 additionally satisfies the College Com							
Communication 1	Introduction to Public Speaking	I, II, III, IV	4	-				
Chemistry Chemistry 2A	General Chemistry	I, II, IV	5					
Chemistry 2B	General Chemistry	II, III, IV	5					
Chemistry 8A	Organic Chemistry	I, III, IV	2					
Biological Sciences								
BIS 2A	Introductory Biology	I, II, III, IV	5					
BIS 2B	Introductory Biology	I, II, III, IV	5					
BIS 2C	Introductory Biology	I, II, III, IV	5					
Mathematics								
Mathematics 17A	Short Calculus	I, II, III, IV	3					
Mathematics 17B	Short Calculus	I, II, III, IV	3	-				
Physics								
Physics 1A	Principles of Physics	I, II	3		_			
Physics 1B	Principles of Physics	II, III	3		·			
Statistics (Choose one of the WFC 103			4					
	Applied Statistics for Wildlife Research Applied Statistics for Bio Sciences	ı I, II, III, IV	4 4					
	Applied Statistics in Ag Science	Ι	4					
Data Literacy								
WFC 098	Data Literacy for Wildlife Biologists	I	3					
Wildlife & Conservation (Choose one of the following)								
WFC 10	Wildlife Ecology and Conservation	I, III	4					
WFC 50	Natural History of CA Vertebrates	II	3					

⁺This checklist is to be used for guidance purposes. Other courses may be listed in course catalog that are not shown here due to them being offered irregularly. I = fall quarter, II = winter quarter, III = spring quarter, IV = summer session

^{***}Course offerings are subject to change. Check with your adviser for the most updated listings.

Depth Subject Matter Requirements

NOTE: Students graduating with this major are required to attain at least a C average (2.0 GPA) in all courses taken at the university in Depth Subject Matter and Area of Specialization and pass all coursework. See requirements of the College in the UCD General Catalog.

Depth Subject M		Prerequisites	Qtr(s)	Units	Completed			
Ecology (Choose ESP 100	e one of the following) General Ecology	BIS 2A-C; MAT 16A-B; STA 13 recommended	I, II, IV	4				
EVE 101	Introduction to Ecology	BIS 2A-C; MAT 16A-B (or equiv.)	I, II, III, IV	4				
Evolution EVE 100	Introduction to Evolution	BIS 2ABC, MAT 16AB or 17AB or 21AB, STA 100 recommended	I, II, III, IV	4				
Physiology WFC 130	Physiological Ecology	EVE 101 or ESP 100 or equivalent	II	4				
Animal Behavion	or (Choose one of the following) Animal Behavior	BIS 2A-C	I, II, III, IV	3				
WFC 141	Behavioral Ecology	EVE 101 or ESP 100 or equivalent	III	4				
Conservation Biology								
WFC 154	Conservation Biology	BIS 2B or equivalent	II	4				
WFC 122	logy (Choose one of the following) Population Dynamics and Estimation	MAT16A-B; STA13 or equiv; EVE 101, ESP 100, or equiv	III	4				
WFC 124 ^{††}	Sampling Animal Populations	ESP 100 or EVE 101; WFC 103 or STA 100 or PLS 120	TBA	4				
Organismal Core (Choose 3 lecture courses and 2 laboratory courses)								
WFC 110	Biology & Conservation of Wild Mammals	BIS 2A-C; EVE 101 or ESP 100 or equivalent	III	3				
WFC 110L	Lab in Biology & Conservation of Wild Mammals	WFC 110 (may be concurrent); consent of instructor	III	3				
WFC 111 WFC 111L	Biology & Conservation of Wild Birds Lab in Biology & Conservation of Wild Birds	BIS 2A-C, upper division ecology recommended WFC 111 (may be concurrent); consent of instructor	I I	3 3				
WFC 111L	Biology & Conservation of Fishes	BIS 2ABC, upper division ecology recommended	i I	3				
WFC 120L	Lab in Biology & Cons of Fishes	WFC 120 (may be concurrent)	i	2				
WFC 134	Herpetology	BIS 2ABC, upper division ecology recommended	i İl	3				
WFC 134L	Herpetology Laboratory	WFC 134 concurrently	II	3				
Research Methods (Choose one of the following)								
WFC 100	Field Methods in Wildlife, Fish, & Cons. Bio	BIS 2ABC, EVE 101 or ESP 100	III	4				
WFC 101/L ^{even}	Field Research in Wildlife Ecology + Lab	Consent of instructor; ESP 100 or EVE 101; WFC 103 or STA 100 or PLS 120; WFC 110 or WFC 111 or WFC 134	1	2/4				
WFC 102/L ^{odd}	Field Research in Fish Ecology + Lab	Consent of instructor; ESP 100 or EVE 101; WFC 103 or STA 100 or PLS 120; WFC 120; one aquatic biology course	III	1/6				
GIS Technolog ABT/LDA 150	y (Strongly recommended, but not required) Geographic Info Systems	PLS 21 or equivalent with consent of instructor	1	4				
Anatomy (Strong APC 100	gly recommended, but not required) Comparative Organology of Vertebrates	BIS 2A-B	II	4				
Statistics (Stron	Statistics (Strongly recommended, but not required)							
STA 104 odd	Nonparametric Statistics	STA 13, 32, or 100	II	4				
STA 106	Analysis of Variance	STA 13, 32, or 100	I, II, IV	4				
STA 108	Regression Analysis	STA 13, 32, or 100	I, II, III, IV	4				

I = fall quarter, II = winter quarter, III = spring quarter, IV = summer session

odd Course is offered in odd years only (2017, 2019, etc.)

even Course is offered in even years only (2018, 2020, etc.)

^{*} Complete a major modification petition to use this course until its addition is formally recognized by campus.

^{***}Course offerings are subject to change. Check with your adviser for the most updated listings.

^{††}Future availability unknown

Fish Biology

Why study Fish Biology?

Fish are the most diverse of all vertebrates, plus they are a major source of healthy food for the world's people. You really need no other reason to study them. Actually, the fish biology option is more of an aquatic biology option with an emphasis on fish. The curriculum prepares you for jobs with fisheries and conservation agencies, as well as for graduate school in diverse areas of aquatic biology. Internships and independent studies are encouraged, to gain experience while you are in school. Students in this option get wet on occasion and get to feel slime produced by a wiggling fish in their hands. Try it; you will like it.



Required Courses		Prerequisites	Qtr(s)	Units	Completed
WFC 120/L	Biology & Conservation of Fishes	BIS 2A-C	I	3	
	Lab in Biology & Cons of Fishes	WFC 120 (may be concurrent)	1	2	
Choose one Ir	vertebrates course				
EVE 112/L even	Biology of Invertebrates	BIS 2B-C	II	3	
	Biology of Invertebrates: Lab	EVE 112 concurrently	II	2	
ENT 116	Biology of Aquatic Insects	BIS 2B	III	3	
EVE 114 ^{††}	Experimental Invertebrate Biology	Bodega Course. BIS 2A-C, upper division standing	TBA	3	
Choose three Aquatic Syste		Water Policy/Law courses, with at least one from each cate	egory		
ANS 118 ^{††}	Fish Production	WFC 120 and 121	TBA	4	
ESM 100	Principles of Hydrologic Science	CHE 2B; Math 16B; PHY 7A or 9A	1	4	
ESP 116N even	Oceanography	GEL 1, 2, 16, or 50	İl	3	
ESP 150C	Biological Oceanography	Acceptance into the Bodega Marine Lab summer program	IV	4	
ESP 151/L	Limnology	BIS 2A; junior standing	III	4	
	Limnology Laboratory	ESP 151 concurrently	III	3	
ESP 152	Coastal Oceanography	Acceptance into the Bodega Marine Lab summer program	IV	3	
ESP 155 ^{††}	Wetland Ecology	BIS 2A, ESP 100 or EVE 101 recommended	TBA	4	
EVE 115 odd	Marine Ecology	EVE 101 or ESP 100 or BIS 2B	II.	4	
HYD 143 even	Hydrological Processes in Ecosystems	HYD 141 or ESM 100	II	3	
WFC 137* even	Applied Fisheries Conservation	WFC 120/L or WFC 110/L or WFC 111/L or WFC 134/L	III	3	
Water Policy/L	Law course				
HYD 150	Water Law	upper division standing or consent of instructor	II	3	
ESP 161	Environmental Law	Upper division standing; one course in env. science	III	4	
ESP 162	Environmental Policy	ECN 1A	II	4	
ESP 166	Ocean and Coastal Policy	ESP 1 or consent of instructor	II	3	
ESP 169	Water policy and politics	ECN 1A; POL 1	III	4	

I = fall quarter, II = winter quarter, III = spring quarter, IV = summer session

odd Course is offered in odd years only (2017, 2019, etc.)

even Course is offered in even years only (2018, 2020, etc.)

^{*} Complete a major modification petition to use this course until its addition is formally recognized by campus.

^{***}Course offerings are subject to change. Check with your adviser for the most updated listings.

^{††}Future availability unknown