WFCB Bachelors of Science (BS) Requirements

Wildlife, Fish, and Conservation Biology (WFCB) is an ecologically oriented major that addresses the interactions of humans with animals in both natural and disturbed environments. Students are trained in the basic sciences, mathematics, and the biology and conservation of vertebrates in California and in many other parts of the world. The emphasis on basic sciences provides our students with the intellectual flexibility to handle the varied and often unexpected problems faced by biologists in the field and laboratory. It also makes sure students are prepared for graduate and professional schools and for alternative careers.



Preparatory Subject Matter Requirements (2017-18)

December 0 Line Matter		Quarter(s)	11.26	Quarteria	Netes			
Preparatory Subject Matter	(57-59 Units)	Offered***	Units	Completed	Notes			
Written Expression								
University Writing Program 1	Expository Writing	I, II, III, IV	4	·				
Oral Expression (Choose one of the	e ,							
	I 1 additionally satisfies the College Comp							
Communication 1	Introduction to Public Speaking	I, II, III, IV	4					
Communication 3	Interpersonal Communication	I, II, III	4					
	Competence							
Dramatic Art 10	Introduction to Acting	I, II, III	3					
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					
Chemistry 8B	Organic Chemistry	I, II, IV	4					
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 16A	Short Calculus	I, II, III, IV	3					
Mathematics 16B	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 follow	ing)							
	Statistics for Bio Sciences	I, II, III, IV	4					
	Statistics in Ag Science	I	4					
Wildlife & Conservation (Choose one of the following)								
WFC 10	Wildlife Ecology and Conservation	1, 111	4					
WFC 50	Natural History of CA Vertebrates	I, III II	3					
WFC 50	Introduction to Conservation Biology		3					
WI 0 01	milloudelion to conservation biology		0	·				

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

*Course is offered in odd years only (2013, 2015, etc.)

**Course is offered in even years only (2012, 2014, etc.)

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

^{††}Future availability unknown

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	Matter (45-50 Units)	Prerequisites	Qtr(s)	Units	Completed
Ecology (Choo	se one of the following)				
ESP 100	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	
Genetics					
BIS 101	Genes and Gene Expression	BIS 2AB (C- or better), CHE 8A or CHE 118A or CHE 128A,			
		STA 13 or STA 100 or STA 102 or STA 130A	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	П	4	
	ior (Choose one of the following)				
NPB 102	Animal Behavior	BIS 2A-C	II, III, IV	3	
WFC 141	Behavioral Ecology	EVE 101 or ESP 100 or equivalent	11	4	
Conservation	•••			•	·
WFC 154	Conservation Biology	EVE 101 or ESP 100 or equivalent	1	4	
Population Bio				-	
•	••				
WFC 122 ^{††}	Population Dynamics and Estimation	MAT16A-B; STA13 or equiv; EVE 101, ESP 100, or equiv	III	4	<u> </u>
Organismal Co	ore (Choose 3 lecture courses and 2 laboratory cour	rses)			
WFC 110	Biology & Conservation of Wild Mammals	BIS 2A-C; EVE 101 or ESP 100 or equivalent	111	3	
WFC 110L	Lab in Biology & Conservation of Wild Mammals	WFC 110 (may be concurrent); consent of instructor	111	3	
WFC 111	Biology & Conservation of Wild Birds	BIS 2A-C, upper division ecology recommended	I	3	
WFC 111L	Lab in Biology & Conservation of Wild Birds	WFC 111 (may be concurrent); consent of instructor	I	3	
WFC 120	Biology & Conservation of Fishes	BIS 2ABC, upper division ecology recommended	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	II	3	
WFC 134L	Herpetology Laboratory	WFC 134 concurrently	II	3	
Research Met	hods (Choose one of the following)				
WFC 100	Field Methods in Wildlife, Fish, & Cons. Bio	BIS 2ABC, EVE 101 or ESP 100	111	4	
WFC 101/L**	Field Research in Wildlife Ecology + Lab	Consent of instructor & 1 upper division course in ecology,	I	2/4	
		statistics, and ornithology, mammalogy, or herpetology			
GIS Technolog	gy (Strongly recommended, but not required)				
ABT/LDA 150	Geographic Info Systems	PLS 21 or equivalent with consent of instructor	I	4	
Anatomy (Stroi	ngly recommended, but not required)				
APC 100	Comparative Organology of Vertebrates	BIS 2A-B	Ш	4	
	ngly recommended, but not required)				
STA 104*	Nonparametric Statistics	STA 13, 32, or 100	Ш	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	. <u> </u>
	= winter quarter. III = spring quarter. IV = summer se		, , .,		

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*Course is offered in odd years only (2017, 2019, etc.) **Course is offered in even years only (2018, 2020, etc.)

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Wildlife and Conservation Biology



Required Courses		Prerequisites	Qtr(s)	Units	Completed
Complete Wild					
WFC 151	Wildlife Ecology	BIS 2A-B	I	4	<u> </u>
Choose one P					
Note: Students in PLS/PLB 102	terested in certification as a Wildlife Biologist from California Floristics	n The Wildlife Society need 13.5 units in botany. PLS 2 or BIS 2C or equivalent	Ш	5	
PLS 131*	Identification and Ecology of Grasses	BIS 2C, PLB 102 recommended, must be available in		2	
FL3 131	identification and Ecology of Grasses	summer for field work	111	2	
PLS 144	Trees and Forests	PLS 2 or BIS 2C or equivalent	I	4	
PLS 147/L	California Plant Communities + Lab	PLS 2 or BIS 2C or equivalent	Ш	3/1	
PLS 178*	Biology & Management of Aquatic Plants	PLS 2 or BIS 2C; CHE 8B or 118B	I	3	
PLB 108	Systematics & Evolution of Angiosperms	BIS 2A-C	III	5	
PLB/EVE 117	Plant Ecology	BIS 2A-C; PLB 111 recommended	I	4	
PLB 119	Population Biology of Weeds	BIS 2ABC, introductory STA course recommended	III	3	. <u> </u>
PLB 148	Introductory Mycology	BIS 2A-C	I	4	
	/ildlife courses				
	annot be used to simultaneously satisfy a depth a				
WFC 110	Biology & Conservation of Wild Mammals	BIS 2A-C; EVE 101 or ESP 100 or equivalent	III	3	
WFC 111	Biology & Conservation of Wild Birds	BIS 2A-C, upper division ecology recommended	I	3	
WFC 120	Biology & Conservation of Fishes	BIS 2A-C, upper division ecology recommended	I 	3	
WFC 134	Herpetology	BIS 2A-C, upper division ecology recommended	11	3	<u> </u>
WFC 136**	Ecology of Waterfowl & Game Birds	WFC 111, 111L, or equivalent, or consent of instructor	 	3	
WFC 152*	Ecology of Human-Wildlife Conflicts	BIS 002B; Or equivalent	II	3	
WFC 141	Behavioral Ecology	EVE 101 or ESP 100	II	4	·
WFC 144 ^{††}	Marine Conservation Science	EVE 101 or ESP 100		4	
WFC 155/L ⁺⁺	Habitat Conservation & Restoration + Lab	EVE 101 or ESP 100 or equivalent;		3/2	
WI 0 100/L		WFC 154 & ENH 160 recommended		0/2	
WFC 160	Animal Coloration	BIS 2A-C	Ш	0	
WFC 160	Animal Coloration	BIS ZA-C	111	3	
WFC 156 ^{††}	Plant Geography	EVE 101 or ESP 100 or equivalent;		4	. <u> </u>
		PLB 102 or 108 strongly recommended			
WFC 157 ⁺⁺	Coastal Ecosystems	EVE 101, ESP 100 or equiv; course work in		4	
	·	organismal bio, phys geography, & geology rec			

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