

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 (2023–2024)

Preparatory Subject Matter	(57-59 Units)	Quarter(s) Offered***	Units	Completed	Notes
Written Expression					
University Writing Program 1	Expository Writing	I, II, III, IV	4	_____	_____
Oral Expression (<i>Choose one of the following</i>)					
Note: Of the below courses, only CMN 1 additionally satisfies the College Composition requirement.					
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 (<i>Choose one of the following</i>)					
WFC 103	Applied Statistics for Wildlife Research	I	4	_____	_____
Statistics 100	Applied Statistics for Bio Sciences	I, II, III, IV	4	_____	_____
Plant Sciences 120	Applied Statistics in Ag Science	I	4	_____	_____
Data Literacy					
WFC 098	Data Literacy for Wildlife Biologists	I	3	_____	_____
Wildlife & Conservation (<i>Choose one of the following</i>)					
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 Matter	(45-50 Units)	Prerequisites	Qtr(s)	Units	Completed
Ecology (<i>Choose one of the following</i>)					
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	_____
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 Behavior (<i>Choose one of the following</i>)					
NPB 102	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	_____
Population Biology (<i>Choose one of the following</i>)					
WFC 122	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 (<i>Choose 3 lecture courses and 2 laboratory courses</i>)					
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	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 Methods (<i>Choose one of the following</i>)					
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	I	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 Technology (<i>Strongly recommended, but not required</i>)					
ABT/LDA 150	Geographic Info Systems	PLS 21 or equivalent with consent of instructor	I	4	_____
Anatomy (<i>Strongly recommended, but not required</i>)					
APC 100	Comparative Organology of Vertebrates	BIS 2A-B	II	4	_____
Statistics (<i>Strongly recommended, but not required</i>)					
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	_____

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^{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.

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††Future availability unknown

Wildlife and Conservation Biology

Required Courses	Prerequisites	Qtr(s)	Units	Completed
Complete Wildlife Ecology (Choose one of the following)				
WFC 151 Wildlife Ecology	BIS 2B	I	4	_____
WFC 168 Climate Change Ecology	BIS 2B	II	4	_____
Choose one Plants course				
Note: Students interested in certification as a Wildlife Biologist from The Wildlife Society need 13.5 units in botany.				
PLS/PLB 102 California Floristics	PLS 2 or BIS 2C or equivalent	III	5	_____
PLS 131 ^{odd} Identification and Ecology of Grasses	BIS 2C, PLB 102 recommended, must be available in summer for field work	III	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	III	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	_____
PLB 148 Introductory Mycology	BIS 2A-C	I	4	_____
Choose two Wildlife courses				
Note: A course cannot be used to simultaneously satisfy a depth and area of specialization requirement.				
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 122 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	_____
WFC 125 ^{even} Tropical Ecology and Conservation	ESP 100 or EVE 101 or equivalent	I	4	_____
WFC 126 ^{odd} Conservation in Working Landscapes	BIS 2B; ESP 100 or EVE 101 recommended	I	4	_____
WFC 134 Herpetology	BIS 2A-C, upper division ecology recommended	II	3	_____
WFC 136 ^{even} Ecology of Waterfowl & Game Birds	WFC 111, 111L, or equivalent, or consent of instructor	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	_____
WFC 141 ^{even} Behavioral Ecology	ESP 100 or EVE 101 or equivalent	III	4	_____
WFC 151 Wildlife Ecology	BIS 2B or equivalent	I	4	_____
WFC 152 ^{odd} Ecology of Human-Wildlife Conflicts	BIS 2B or equivalent	II	3	_____
WFC 155 Wildlife Space Use & Habitat Conservation	ESP 100 or EVE 101	I	4	_____
WFC 168 Climate Change Ecology	BIS 2B or equivalent	II	4	_____

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