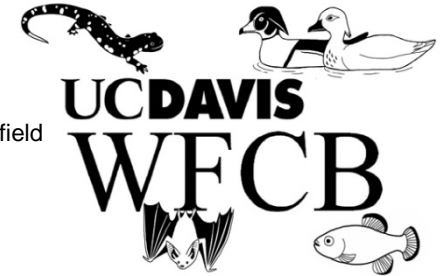


Wildlife Health 2012-2013



Why study wildlife health?

Wildlife Health is designed to prepare students for a career as a wildlife veterinarian or for other opportunities in the expanding field of wildlife disease and health. Such professionals play critical roles in addressing disease threats to wildlife conservation. Coursework emphasizes topics important for a career in medicine, as well options in wildlife biology and animal ethics.

Preparatory Subject Matter Requirements

Preparatory Subject Matter	(46-47 Units)	Quarter(s) Offered	Units	Completed	Notes
Written/Oral Expression					
University Writing Program 1	Expository Writing	I, II, III, IV	4	_____	_____
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	_____	_____
Chemistry 8B	Organic Chemistry	I, II, IV	4	_____	_____
Biological Sciences					
BIS 2A	Introductory Biology	I, II, III, IV	4	_____	_____
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	3	_____	_____
Physics 1B	Principles of Physics	II	3	_____	_____
Statistics					
<i>Choose one of the following</i>					
Statistics 100	Applied Statistics for Bio Sciences	I, II, III, IV	4	_____	_____
Statistics 102	Intro to Probability Modeling & Statistical Inference	I, III	4	_____	_____
Plant Sciences 120	Applied Statistics in Ag Science	I	4	_____	_____
Wildlife & Conservation					
<i>Choose one of the following</i>					
WFC 10	Wildlife Ecology and Conservation	I, III	4	_____	_____
WFC 11*	Introduction to Conservation Biology	III	3	_____	_____
WFC 50	Natural History of CA Vertebrates	II	3	_____	_____

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.)

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* pass all coursework. See requirements of the College in the UCD General Catalog.

Depth Subject Matter	(54-60 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	4	_____
EVE 101	Introduction to Ecology	BIS 2A-C; MAT 16A-C (or equiv.)	I, II, III, IV	4	_____
Genetics					
BIS 101	Genes and Gene Expression	BIS 2A-C (2C may be concurrent); CHE 8B (may be concurrent)	I, II, III, IV	4	_____
Evolution					
EVE 100	Introduction to Evolution	BIS 2A-C; BIS 101; MAT 16A-C or equiv; STA 13 or 100	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	II	4	_____
Conservation Biology					
WFC 154	Conservation Biology	EVE 101 or ESP 100 or equivalent	I	4	_____
Population Biology					
WFC 122	Population Dynamics and Estimation	MAT16A-B; STA13 or equiv; EVE 101, ESP 100, or equiv	III	4	_____
Statistics <i>(Choose one of the following – two recommended)</i>					
STA 104*	Nonparametric Statistics	STA 13, 32, or 102	II	4	_____
STA 106	Analysis of Variance	STA 13, 32, or 102	I, II, IV	4	_____
STA 108	Regression Analysis	STA 13, 32, or 102	I, II, III, IV	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; EVE 101 or ESP 100 or equivalent	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 2A-C	I	3	_____
WFC 120L	Lab in Biology & Cons of Fishes	WFC 120 (may be concurrent)	I	1	_____
EVE 134*	Herpetology	BIS 2A-C; EVE 101, ESP 100 or equivalent rec.	II	3	_____
EVE 134L*	Herpetology Laboratory	EVE 134 concurrently	II	2	_____
Research Methods <i>(Choose one of the following)</i>					
WFC 100	Field Methods in Wildlife, Fish, & Cons. Bio	EVE 101 or ESP 100 or equivalent; consent of instructor	III	4	_____
WFC 101/L**	Field Research in Wildlife Ecology + Lab	Consent of instructor & 1 upper division course in ecology, statistics, and ornithology, mammalogy, or herpetology	I	2/4	_____
GIS Technology <i>(Strongly recommended, but not required)</i>					
ABT/LDA 150	Geographic Info Systems for Land Planners	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	_____

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Wildlife Health

Required Courses		Prerequisites	Qtr(s)	Units	Completed
Complete either BIS 102/103 or ABI 102/103					
BIS 102	Structure & Function of Biomolecules	BIS 2A; CHE 8B, 118B, or 128B	I, II, III, IV	3	_____
BIS 103	Bioenergetics & Metabolism	BIS 102	I, II, III, IV	3	_____
ABI 102	Animal Biochemistry & Metabolism	CHE 2A-B; CHE 8A-B	I	5	_____
ABI 103	Animal Biochemistry & Metabolism	ABI 102	II	5	_____
Choose one Wildlife course					
WFC 151	Wildlife Ecology	BIS 2A-C or the equivalent; WFC 110L or 111L rec	I	4	_____
WFC 136**	Ecology of Waterfowl & Game Birds	WFC 111, 111L, or equivalent, or consent of instructor	II	3	_____
WFC 152*	Ecology of Human-Wildlife Conflicts	BIS 2A-C or the equivalent	II	3	_____
WFC 155/L	Habitat Conservation & Restoration	EVE 101 or ESP 100 or equivalent; WFC 154 & ENH 160 recommended	II	3	_____
	Habitat Conservation & Restoration: Lab	WFC 155 (may be concurrent)	II	2	_____
Choose one Ethics course					
ANS 103	Animal Welfare	ANS 104 or NPB 102 or the equivalent or consent of instructor	I	4	_____
ANS 170	Ethics of Animal Use	Any basic course in composition or speech	III	4	_____
Choose one or more General courses					
NPB 101	Systemic Physiology	BIS 2B; CHE 2B; PHY 1B or 7C strongly rec.	I, II, III, IV	5	_____
MCB 150	Developmental Biology	BIS 101; MCB 150L concurrently	I	4	_____
MIC 104	General Microbiology	BIS 101, 102, and 103	I	4	_____
ANS 104	Principles of Domestic Animal Behavior	BIS 2A or 2B or equivalent	II	4	_____
APC 100	Comparative Organology of Vertebrates	BIS 2A-B	II	4	_____
NPB 140	Principles of Environmental Physiology	NPB 101; BIS 102 recommended	II	3	_____
VME 158	Infectious Diseases in Ecology & Conservation	EVE 101 or ESP 100 or equivalent	II	3	_____
NPB 126 [†]	Comparative Physiology: Sensory	NPB 100 or 101		3	_____
NPB 127 [†]	Comparative Physiology: Circulation	NPB 101		3	_____
NPB 128 [†]	Comparative Physiology: Endocrinology	NPB 101		3	_____

[†]Course is not regularly offered

This AOS also recommends extra preparatory courses; pre-requisites for admission into Veterinary Medicine vary among schools and students should confirm the specific requirements of the schools to which they wish to apply. We recommend that the following additional courses be considered:

CHE 2C General Chemistry

CHE 118A-C Organic Chemistry for Health & Life Sciences *Note: Some schools may accept CHE 8A-B; individual schools will vary*

PHY 7A-C General Physics *Note: some schools may accept PHY 1A-B; individual schools will vary*

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