# Department of Fisheries and Wildlife



## BACHELOR OF SCIENCE DEGREE IN FISHERIES AND WILDLIFE

#### **UNIVERSITY REQUIREMENTS:**

Minimum number of credits required:

Minimum cumulative grade point average:

120 credits 2.00

#### **WRITING REQUIREMENT:**

• Tier I: WRA 110 or higher (4 cr.)

Tier II: Satisfied by completing FW 434 (3 cr.)

#### **INTEGRATIVE STUDIES REQUIREMENT: (24 cr.)**

- Arts & Humanities (8 cr.)
  - ◆ complete one IAH course numbered below 211 (4 cr.)
  - ♦ complete one IAH course numbered 211 or higher (4 cr.).
- Social Science (8 cr.)
  - ♦ complete one 200-level ISS course (4 cr.)
  - ♦ complete one 300-level ISS course (4 cr.).
- Biological & Physical Sciences (8 cr.) [alternative track]
  - Biological Sciences (3 cr.) Satisfied by completing BS 161, BS 162, LB 144 or LB 145
  - Physical Sciences (3 cr.) Satisfied by completing CEM 141 (4 cr.), CEM 151 (4 cr.) or LB 171 (4 cr.).
  - ◆ Laboratory Experience (2 cr.) Satisfied by completing (BS 171, BS 172, LB 144 or LB 145 ) and (CEM 161 or LB 171L)

#### Diversity

• Must complete at least two of the three types of diversity designated courses, as part of the IAH and/or ISS requirements listed above.

#### **COLLEGE OF AGRICULTURE AND NATURAL RESOURCES REQUIREMENTS:**

- MATH: satisfied by completing MTH 124 (3 cr.), MTH 132 (3 cr.) or LB 118 (5 cr.).
- ECONOMICS: Complete EC 201 (3 cr.) <u>OR</u> EC 202 (3 cr.)
- CANR Courses: Complete at least 26 credits of CANR courses. The Conservation Biology, Fisheries Biology
  and Management, Wildlife Biology and Management, Water Sciences, Fish and Wildlife Disease Ecology
  and Management and Preveterinary concentrations listed below all require the minimum required CANR
  credits. Non-CANR courses substituted for courses in any of the concentrations listed below may require
  a student to complete additional CANR course credits to meet the College's 26 credit requirement.

### FISHERIES AND WILDLIFE MAJOR REQUIREMENTS:

	BIOLOGICAL SCIENCES (9 to 10 cr.)								
	Complete ONE of the following groups of courses				COMMUNICATION (6 cr.)				
(1)	BS 161 Cell and Molecular Biology			3	Complete TWO of the following courses				
` '	BS	171	Cells and Molecular Biology Lab	2	COM		Human Communication	3	
	BS	162	Organismal & Populations Biology	3	СОМ		Intro to Interpersonal Comm	3	
	BS	172	Organismal & Populations Biology Lab	2	COM		Effects of Mass Communication	3	
			5 1 57		CSUS		Grant Writing & Fund Development (W)	3	
(2)	LB	144	Biology I: Organismal Biology	4	FW	435	Integrated Commun. for FW Prof	3	
` '	LB	145	Biology II: Cellular & Molecular Bio	5	JRN	472	Environmental Reporting Lab	3	
			<i>-</i> ,		WRA	320*	Technical Writing	3	
			<u> CIENCES (</u> 8 to 9 cr.)		WRA	331*	Writing in the Public Interest	3	
	Complete ONE of the following groups of Chemistry			WRA	341	Nature, Environmental & Travel Writing	3		
		courses			WRA	453*	Grant and Proposal Writing	3	
(1)	CEM		General Chemistry	4.	* Con	tact W	RA for an override		
	CEM	161	Chemistry Laboratory I	1					
(2)	CENA	CEM 151 Conoral and Descriptive Chemistry 4				ETHICS and PHILOSOPHY (3 cr.)			
(2)		151	General and Descriptive Chemistry	4			NE of the following courses		
	CEM	161	Chemistry Laboratory I	1	FW	439	Conservation Ethics	3	
(2)	LD	171	Dringiples of Chamistry I	4	GEO	432	Environmental Ethics	3	
(3)		171	Principles of Chemistry I	4	PHL	340	Ethics	3	
	LB	1/1L	Introductory Chemistry Lab I	1	PHL	342	Environmental Ethics	3	
	Comn	loto O	NE of the following Physics courses		PHL	380	Nature of Science	3	
	Complete ONE of the following Physics courses LB 273 Physics I			2					
	PHY	183	Physics for Scientists & Engineers I	3 4	EXPERIENTIAL LEARNING (3 to 4 cr.)				
	PHY	231	Introductory Physics I	3	-		NE of the following courses	_	
	FIII	231	introductory Frigsics i	3	FW	493	Prof. Internship in FW	3	
	FARTI	4 SCIFI	NCF (3 to 4 cr)		FW	490	Independent Study	3	
	EARTH SCIENCE (3 to 4 cr)  Complete ONE of the following Earth Science course  CSS 210 Fund. of Soils & Landscape Sci			c	FW	480	International Studies in FW	3	
				3	FW	499	Senior Thesis in FW	4	
	GEO	203	Introduction to Meteorology	3	FISHE	RFS &	WILDLIFE CORE (19 to 20 cr.)		
	GEO	206	Physical Geography	3			L of the following courses		
	GLG	201	The Dynamic Earth	4	FW	101	Fish & Wildlife Fundamentals	3	
			- <b>,</b>	-	FW		Fish & Wildlife Fundamentals Lab <b>OR</b>	J	
	MATH and STATISTICS (6 to 7 cr.)					238	Intro Fish & Wildlife Field Experience	2-3	
	Complete ONE of the following Calculus courses			FW	293	Undergrad Seminar in Fish & Wildlife	1		
	-		Survey of Calculus I	3	FW	364	_	3	
	MTH		Calculus I	3	FW	424	Population Analysis and Management	4	
	LB	118	Calculus I	4	FW	434	Human Dimensions of FW Management	3	
					IBIO	355	Ecology	3	
	Complete ONE of the following Statistics courses								
	STT 224 Intro to Prob. & Stat for Ecologists		3	CONCENTRATIONS					
	STT	231	Statistics for Scientists	3	Comp	lete O	NE of the following six transcriptable conce	ntrations:	
	STT	421	Statistics I	3	<ul> <li>(1) Conservation Biology;</li> <li>(2) Fisheries Biology and Management;</li> <li>(3) Wildlife Biology and Management;</li> <li>(4) Water Sciences;</li> <li>(5) Fish and Wildlife Disease Ecology and Management;</li> </ul>				
	(6) Preveterinary;								