BACHELOR OF SCIENCE DEGREE IN FISHERIES AND WILDLIFE

UNIVERSITY REQUIREMENTS:

- Minimum number of credits required: 120 credits
- Minimum cumulative grade point average: 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.) OR 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

1. BS 161 Cell and Molecular Biology 3
   BS 171 Cells and Molecular Biology Lab 2
   BS 162 Organismal & Populations Biology 3
   BS 172 Organismal & Populations Biology Lab 2

2. LB 144 Biology I: Organismal Biology 4
   LB 145 Biology II: Cellular & Molecular Bio 5

**PHYSICAL SCIENCES** *(8 to 9 cr.)*

Complete ONE of the following groups of Chemistry courses

1. CEM 141 General Chemistry 4
   CEM 161 Chemistry Laboratory I 1

2. CEM 151 General and Descriptive Chemistry 4
   CEM 161 Chemistry Laboratory I 1

3. LB 171 Principles of Chemistry I 4
   LB 171L Introductory Chemistry Lab I 1

Complete ONE of the following Physics courses

LB 273 Physics I 3
PHY 183 Physics for Scientists & Engineers I 4
PHY 231 Introductory Physics I 3

**EARTH SCIENCE** *(3 to 4 cr.)*

Complete ONE of the following Earth Science courses

CSS 210 Fund. of Soils & Landscape Sci 3
GEO 203 Introduction to Meteorology 3
GEO 206 Physical Geography 3
GLG 201 The Dynamic Earth 4

**MATH and STATISTICS** *(6 to 7 cr.)*

Complete ONE of the following Calculus courses

MTH 124 Survey of Calculus I 3
MTH 132 Calculus I 3
LB 118 Calculus I 4

Complete ONE of the following Statistics courses

STT 224 Intro to Prob. & Stat for Ecologists 3
STT 231 Statistics for Scientists 3
STT 421 Statistics I 3

**COMMUNICATION** *(6 cr.)*

Complete TWO of the following courses

COM 100 Human Communication 3
COM 225 Intro to Interpersonal Comm 3
COM 275 Effects of Mass Communication 3
CSUS 433 Grant Writing & Fund Development (W) 3
FW 435 Integrated Commun. for FW Prof 3
JRN 472 Environmental Reporting Lab 3
WRA 320* Technical Writing 3
WRA 331* Writing in the Public Interest 3
WRA 341 Nature, Environmental & Travel Writing 3
WRA 453* Grant and Proposal Writing 3

* Contact WRA for an override

**ETHICS and PHILOSOPHY** *(3 cr.)*

Complete ONE of the following courses

FW 439 Conservation Ethics 3
GEO 432 Environmental Ethics 3
PHL 340 Ethics 3
PHL 342 Environmental Ethics 3
PHL 380 Nature of Science 3

**EXPERIENTIAL LEARNING** *(3 to 4 cr.)*

Complete ONE of the following courses

FW 493 Prof. Internship in FW 3
FW 490 Independent Study 3
FW 480 International Studies in FW 3
FW 499 Senior Thesis in FW 4

**FISHERIES & WILDLIFE CORE** *(19 to 20 cr.)*

Complete ALL of the following courses

FW 101 Fish & Wildlife Fundamentals 3
FW 101L Fish & Wildlife Fundamentals Lab OR
FW 238 Intro Fish & Wildlife Field Experience 2-3
FW 293 Undergrad Seminar in Fish & Wildlife 1
FW 364 Ecological Problem Solving 3
FW 424 Population Analysis and Management 4
FW 434 Human Dimensions of FW Management 3
IBIO 355 Ecology 3

**CONCENTRATIONS**

Complete ONE of the following six transcriptable concentrations:

1. Conservation Biology;
2. Fisheries Biology and Management;
3. Wildlife Biology and Management;
4. Water Sciences;
5. Fish and Wildlife Disease Ecology and Management;
6. Preveterinary;