



University of Idaho

Department of Fish
and Wildlife Sciences

Fisheries Science

Recommended 4-Year Plan

Training the Next Generation of Fisheries Professionals

The Bachelor of Science in Fisheries Science focuses on the ecology, conservation, and management of fish species and aquatic ecosystems. In this degree offered through the Department of Fish and Wildlife Sciences our students learn to apply the principles of biology and ecology to understand how fish populations interact with each other and with their environment and how to address management challenges associated with a growing human population. Our degree emphasizes critical thinking through course work and hands-on laboratory and field experiences, and our graduates are equipped to be successful natural resource managers, conservation officers and scientists in a rapidly changing world. Our graduates pursue careers with state, federal, tribal and private organizations involved with: managing recreation-ally and commercially important fish populations, conservation law enforcement, biological monitoring, environmental impact assessment, conservation of endangered fish and ecosystems, aquaculture and hatchery operation, control and prevention of fish diseases, and management of stream or lake ecosystems.

FRESHMAN

FALL

Course	CREDITS
NR 1010 - Exploring Natural Resources	2
COMM 1101 - Fundamentals of Oral Communication	4
ENGL 1101 - Writing & Rhetoric I (sufficient test score) Writ Comm	3
MATH 1143 OR MATH 1160 OR MATH 1170 Math	3
BIOL 1140 - Organisms & Environments Science	3

TOTAL 15

SPRING

COURSE	CREDITS
FISH/WLF 1020 - The Fish & Wildlife Profession	1
CHEM 1101/1101L - Intro to Chemistry & Lab OR Science CHEM 1111/1111L - Principles of Chemistry & Lab	4
ENGL 1102 - Writing & Rhetoric II (ENGL 1101) Writ Comm	3
Emphasis Area or Physical Science Requirement (if emphasis area B or C)	3
Emphasis Area Requirement	3

TOTAL 14

SOPHOMORE

FALL

COURSE	CREDITS
WLF 2010 - Fish & Wildlife Applications I	2
WLF 2200 OR FOR 2100 - Principles of Ecology OR NR 3210 - Ecology	3
FOR 2350 - Society & Natural Resources Social Sci	3
BIOL 1150/1150L - Cells & the Evolution of Life & Lab	4
Emphasis area or Gen Ed requirement.	3

TOTAL 15

SPRING

COURSE	CEDITS
WLF 3700 - Management & Communication of Scientific Data	3
BIOL 2130 - Structure and Function Across the Tree of Life (BIOL 1140)	4
STAT 2510 - Statistical Methods	3
CHEM 2750 - Carbon Compounds OR CHEM 2770 Organic Chemistry I (exc. option A)	3
Physical Science Requirement (if option A)	
Emphasis Area Requirement	3

TOTAL 16

JUNIOR

FALL

COURSE	CREDITS
FISH 3140 -Fish Ecology	3
FISH 3150 -Fish Ecology Field Techniques and Methods	2
FISH/WLF 3980 -Renewable Natural Resources Internship OR FISH 4980 - Internship (exc. option B)	2
Humanistic and Artistic Ways of Knowing Course (exc. option A)	3
BIOL 2500 -General Microbiology (exc. option C)	3
Emphasis Area Requirement	2

TOTAL 15

SPRING

COURSE	CREDITS
FISH 4810 -Ichthyology	4
FISH/WLF 3980 -Renewable Natural Resources Internship OR FISH 4980 - Internship	1
International Course	3
Emphasis Area Requirement	3
Emphasis Area Requirement	3

TOTAL 14

SENIOR

FALL

COURSE	CREDITS
FISH 4150 -Limnology	4
FISH 4180 -Fisheries Management	4
FOR 3700 -Fundamentals of Geomatics OR GEOG 3850 -Foundation of GIS	3
Humanistic and Artistic Ways of Knowing Course (exc. option A)	3
Emphasis Area Requirement	1

TOTAL 15

SPRING

COURSE	CREDITS
FISH 4950 -Seminar (Sr. standing)	1
WLF 4480 -Fish and Wildlife Population Ecology	4
Emphasis Area Requirement	4
Emphasis Area Requirement	3
Emphasis Area Requirement	3

TOTAL 15

PHYSICAL SCIENCE

GEOG 1000/1000L OR GEOL 1101/1101L OR PHYS 1000/1000L OR
PHYS 1111/1111L OR SOIL 2050 AND SOIL 2060 (3cr)

INTERNSHIP

COURSE	CREDITS
WLF/FISH 3980 -Renewable Natural Resources Internship (1cr practical, 1 cr reflective -two courses of 3980 over 2 semesters)	2

A. CONSERVATION LAW ENFORCEMENT EMPHASIS

CRIM 1010 -Introduction to Criminology (3cr)
PHIL 1103 -Introduction to Ethics (3cr)
PSYC 1101 -Introduction to Psychology (3cr)
SOC 1101 -Introduction to Sociology (3cr)
WLF 2050 -Wildlife Law Enforcement (2cr)
Choose 1: BIOL 2500 OR BIOL 3100 OR GENE 3140 (3cr)
Choose 1: COMM 2330 OR COMM 3350 OR COMM 4100 OR NRS
3870 OR NRS 3110 OR NRS 3640 OR NRS 3830 OR NRS 4620 (3cr)
Choose 1: CRIM 3010 OR CRIM 3340 OR CRIM 3390 OR CRIM 4150
OR CRIM 4390 OR PSYC 3190 OR PSYC 3200 OR SOC 2010 OR
SOC 4200 OR SOC 4430 (3cr)
Choose 2: FISH 4110 OR FISH 4220 OR FISH 4240 OR FISH 4300 OR
FISH 4500 OR FISH 4510 OR WLF 3140 OR WLF 3150 OR WLF 4110
OR 4400 (6cr)

C. AQUACULTURE AND HATCHERY MANAGEMENT EMPHASIS

FISH 4110 -Fish Physiology (2cr)
FISH 4220 -Concepts in Aquaculture (4cr)
FISH 4240 -Fish Health Management (4cr)
Choose 1: ECON 2201 OR ECON 2202 OR ECON 2720 OR
NRS 3800 (3cr)
Choose 2: BIOL 2500 OR BIOL 3100/GENE 3140 OR AVS 3050 OR
FISH 4970 OR FISH 4990 (6cr)
Choose 2: AGE 2780 OR ASM 1070 OR BUS 1900 OR COMM 4100 OR
ENTR 4140 OR MKTG 3210 OR NRS 3110 OR NRS 3860 OR NRS 3870
OR NRS 4620 OR NRS 4880 (6cr)

B. SCIENCE AND MANAGEMENT EMPHASIS

FISH 4110 -Fish Physiology (2cr)
FISH 4220 OR FISH 4240 (4cr)
BIOL 2500/2550 -General Microbiology & LAB (2-3cr)
Choose 1: FISH 4300 OR FISH 4500 OR FISH 4510 OR FISH 4970 OR
FISH 4990 (3cr)
Choose 1: COMM 4100 OR FOR 4310/NRS 4840 OR NRS 3860 OR
NRS 3870 OR NRS 3110 OR NRS 3640 OR NRS 4620 OR NRS 3830
OR NRS 4880 OR WLD 2050 OR WLF 4400 (2-3cr)

Students pursuing a B.S. degree in Fisheries Science must have received a grade of C or better in each of the following four indicator courses to register for FISH or WLF upper-division courses and to graduate with a B.S.: BIOL 1140, BIOL 2130, and WLF 2200, FOR 2100, BIOL 3140, or NR 3210, and STAT 2510.

To graduate, a student must receive a grade of C or better in each FISH or WLF upper-division course listed in the requirements for the B.S. degree

- This academic plan is intended as a guideline only and does not replace academic advising.
- 120 credits minimum are required for a B.S. in Fisheries Science.
- Minimum of 36 upper-division credits required to graduate.
- See courses catalog and department website for complete degree requirements and additional information.



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Ready to Get Started?
Email cnradvising@uidaho.edu