



University of Idaho

Department of Fish and Wildlife Sciences

Fishery Resources

Recommended 4-Year Plan | 2021/2022

Training the Next Generation of Fisheries Professionals

The Bachelor of Science in Fisheries Resources 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 coursework and hands-on field and laboratory 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 recreationally 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

COURSE		CREDITS
NR 101 - Exploring Natural Resources		2
CHEM 101/101L - Intro to Chemistry & Lab OR CHEM 111/111L - Principles of Chemistry & Lab <small>(CHEM 101, MATH 143, 160, or 170, sufficient test score)</small>	Science	4
ENGL 101* - Writing & Rhetoric I <small>(sufficient test score)</small>	Writ Comm	3
MATH 108 - Intermediate Algebra		3
General Education Requirement	Humanities	3

TOTAL 15

FALL

COURSE		CREDITS
FISH/WLF 102 - The Fish & Wildlife Professions		1
BIOL 114 - Organisms & Environments	Science	4
COMM 101 - Fundamentals of Oral Communication		2
ENGL 102* - Writing & Rhetoric II <small>(ENGL 101)</small>	Writ Comm	3
MATH 143 - Pre-Calculus Algebra <small>(MATH 108)</small>	Math	3
General Education Requirement		3

TOTAL 16

SPRING

SOPHOMORE

COURSE		CREDITS
WLF 201 - Fish & Wildlife Applications I <small>(NR 101)</small>		2
WLF 220 OR FOR/REM 221 - Principles of Ecology <small>(BIOL 102/102L, 114, 115, or PLSC 205)</small>		3
NRS 235 - Society & Natural Resources	Social Sci	3
BIOL 115/115L - Cells & the Evolution of Life & Lab <small>(CHEM 101 or 111)</small>		4
MATH 160 - Survey of Calculus <small>(MATH 143)</small> OR MATH 170 - Analytic Geometry & Calculus I <small>(MATH 143 & 144)</small>		4

TOTAL 16

FALL

COURSE		CREDITS
WLF 370 - Management & Communication of Scientific Data		3
BIOL 213 - Principles of Biological Structure & Function <small>(BIOL 115)</small>		4
CHEM 275 - Carbon Compounds <small>(CHEM 101 or 111)</small> OR CHEM 277 - Organic Chemistry I <small>(CHEM 112)</small>		3
GEOG 100/100L - Physical Geography OR GEOL 101/101L - Physical Geology OR PHYS 100/100L - Fundamentals of Physics & Lab OR PHYS 111/111L - General Physics I <small>(MATH 143)</small> OR <small>(CHEM 101 or 111)</small>		4
STAT 251* - Statistical Methods <small>(MATH 108, 143, 160, or 170; or sufficient score)</small>		3

TOTAL 17

SPRING

FISHERY RESOURCES

Recommended 4-Year Plan | 2021/2022

JUNIOR

FALL

COURSE	CREDITS
FISH 314 - Fish Ecology (FOR/REM 221 or BIOL 314)	3
FISH 315 - Fish Ecology Field Techniques & Methods (FOR/REM 221, NR 321, or BIOL 314)	2
BIOL 250/255 - General Microbiology & Lab (CHEM 101 or 111)	5
ECON 202* - Principles of Microeconomics	3
General Education Requirement American Diversity	3

TOTAL 16

SPRING

COURSE	CREDITS
FISH 481 - Ichthyology (BIOL 114, 115 & 213)	4
NRS 383 - NR & Ecosystem Service Economics (NRS 235, MATH 143, & ECON 202 or 272)	3
FISH 422 - Concepts in Aquaculture (FISH 481) OR FISH 424 - Fish Health Management (BIOL 250)	4
GENE 314 - General Genetics (BIOL 115 or 154)	3

TOTAL 14

REQUIRED INTERNSHIP

COURSE	CREDITS
FISH/WLF 398 - Renewable Natural Resources Internship (Fall, Spring, or Summer)	2

SENIOR

FALL

COURSE	CREDITS
FISH 415* - Limnology (STAT 251 & FOR/REM 221 or BIOL 314)	4
FISH 418 - Fisheries Management (FISH 314, 481, & STAT 251)	4
FOR/NRS 375 - Intro to Spatial Analysis for NR Mgmt (College algebra)	3
General Education Requirement	3

TOTAL 14

SPRING

COURSE	CREDITS
FISH 411+ - Fish Physiology (FISH 481)	2
WLF 448 - Fish and Wildlife Population Ecology (STAT 251 & MATH 160 or 170)	4
FISH 495 - Seminar (Sr Standing)	1
Fishery Resources Elective	3-4
General Education Requirement	3

TOTAL 13-14

FISHERY RESOURCES ELECTIVE COURSES:

FISH 422 - Concepts in Aquaculture (4cr)
 FISH 424 - Fish Health Management (4cr)
 FISH 430 - Riparian Ecology & Management (3cr)
 FISH 450/451 - Freshwater Invertebrates & Field Methods (4cr)

MINORS:

Requirements for Aquaculture Minor (20 credits):

BIOL 250/255 - General Microbiology & Lab (5cr)
 FISH 422 - Concepts in Aquaculture (4cr)
 FISH 424 - Fish Health Management (4cr)
 FISH 481 - Ichthyology (4cr)

Plus select two of the following:

- ASM 107 - Beginning Welding (2cr)
- AVS 305 - Animal Nutrition (3cr)
- MKTG 321 - Marketing (3cr)
- ENTR 414 - Entrepreneurship (3cr)
- FISH 498 - Internship (2cr)

Requirements for Wildlife Resources Minor (18 credits):

WLF 220 **OR** FOR/REM 221 - Principles of Ecology (3cr)
 WLF 314 - Ecology of Terrestrial Vertebrates (3cr)
 WLF 315 - Techniques Lab (2cr)

Plus select any 9-12 credit combination of the following:

- BIOL 483 - Mammalogy (3cr)
- BIOL 489 - Herpetology (4cr)
- WLF 371 - Physiological Ecology of Wildlife (2cr)
- WLF 440 - Conservation Biology (3cr)
- WLF 448 - Fish & Wildlife Population Ecology (4cr)
- WLF 482 - Ornithology (4cr)
- WLF 492 - Wildlife Management (4cr)

Ready to Get Started?

Email cnradvising@uidaho.edu

- 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 Fishery Resources.
- Minimum of 36 upper-division credits required to graduate.
- See course catalog and department website for complete degree requirements and additional information.
- * - Both Online & In-Person options are offered
- + - Online only offered