FISHERIES SCIENCE (B.S.)

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 114, BIOL 213, FOR 221, and STAT 251.

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

Required course work includes the university requirements (see regulation J-3 (https://catalog.uidaho.edu/general-requirementsacademic-procedures/j-general-requirements-baccalaureate-degrees/)) and:

Title

Code

Fisheries Core		
First and Second	Years	
BIOL 114	Organisms and Environments	4
BIOL 115	Cells and the Evolution of Life	3
BIOL 115L	Cells and the Evolution of Life Laboratory	1
BIOL 213	Structure and Function Across the Tree of Life	4
CHEM 275	Carbon Compounds	3
or CHEM 277	Organic Chemistry I	
COMM 101	Fundamentals of Oral Communication	3
ENGL 102	Writing and Rhetoric II	3
FISH 102	The Fish and Wildlife Professions	1
WLF 220	Principles of Ecology	3
or FOR 221	Principles of Ecology	
FOR 235	Society and Natural Resources	3
FOR 375	Fundamentals of Geomatics	3
or GEOG 385	Foundations of GIS	
NR 101	Exploring Natural Resources	2
STAT 251	Statistical Methods	3
WLF 201	Fish and Wildlife Applications	2
WLF 370	Management and Communication of Scientific Data	3
Select one of the	following:	4
CHEM 101 & 101L	Introduction to Chemistry and Introduction to Chemistry Laboratory	
CHEM 111 & 111L	General Chemistry I and General Chemistry I Laboratory	
Select one of the	following:	4
GEOG 100 & 100L	Introduction to Planet Earth and Introduction to Planet Earth Lab	
GEOL 101 & 101L	Physical Geology and Physical Geology Lab	
PHYS 100 & 100L	Fundamentals of Physics and Fundamentals of Physics Lab	
PHYS 111 & 111L	General Physics I and General Physics I Lab	
SOIL 205 & SOIL 206	The Soil Ecosystem and The Soil Ecosystem Lab	
Third and Fourth	•	
FISH 314	Fish Ecology	3

Total Hours		96-106
Aquaculture a	nd Hatchery Management (p. 2)	
Science and M	Nanagement (p. 2)	
Conservation	Law Enforcement (p. 1)	
Select one of the	following emphases:	25-35
Emphasis		
WLF 448	Fish and Wildlife Population Ecology (Aquacult and Hatchery Management)	ure 4
FISH 495	Fisheries Seminar	1
FISH 481	Ichthyology	4
FISH 418	Fisheries Management	4
FISH 415	Limnology	4
FISH 315	Fish Ecology Field Techniques and Methods	2

A. Conservation Law Enforcement Emphasis

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Code	Title	Hours
CRIM 101	Introduction to Criminology	3
PHIL 103	Introduction to Ethics	3
PSYC 101	Introduction to Psychology	3
SOC 101	Introduction to Sociology	3
WLF 205	Wildlife Law Enforcement	2
Select one of the	following:	3-4
MATH 143	College Algebra	
MATH 160	Survey of Calculus	
MATH 170	Calculus I	
Select one of the	following:	3
BIOL 250	General Microbiology	
BIOL 310	Genetics	
GENE 314	General Genetics	
Internship:		2
FISH/WLF 398	Renewable Natural Resources Internship	
FISH 498	Internship	
Fisheries and Wild credits):	llife Science Electives (select a minimum of 6	6
FISH 411	Fish Physiology	
FISH 422	Concepts in Aquaculture	
FISH 424	Fish Health Management	
FISH 430	Riparian and River Ecology	
FISH 450	Ecology & Conservation of Freshwater Invertebrates	

Freshwater Invertebrate Field Methods

Wildland Habitat Ecology and Assessment

Ecology of Terrestrial Vertebrates

Interpersonal Communication

Intercultural Communication

Politics of the Environment

Environmental Communication Skills

Public Involvement in Natural Resource

Techniques Laboratory

Conservation Biology

Conflict Management

Management

FISH 451

WLF 314

WLF 315

WLF 411

WLF 440

COMM 233

COMM 335

COMM 410

NRS 387

NRS 311

NRS 364

Select one of the following:

Total Hours		34-35
SOC 420	Sociology of Law	
SOC 343	Power, Politics, and Society	
SOC 230	Social Problems	
SOC 201	Introduction to Inequity and Justice	
PSYC 320	Introduction to Social Psychology	
PSYC 319	Environmental Psychology	
CRIM 439	Inequalities in the Justice System	
CRIM 415	Citizen's Police Academy	
CRIM 334	Policing	
CRIM 339	Crime and the Media	
CRIM 301	Criminological Theory	
Select one of the	following:	3
NRS 462	Natural Resource Policy	
NRS 383	Natural Resource and Ecosystem Service Economics	

Courses to total 120 credits for this degree

B. Science and Management Emphasis

Code	Title	Hours
BIOL 250	General Microbiology	3
BIOL 255	General Microbiology Lab	2
BIOL 310	Genetics	3
or GENE 314	General Genetics	
FISH 411	Fish Physiology	2
FISH 422	Concepts in Aquaculture	4
or FISH 424	Fish Health Management	
MATH 160	Survey of Calculus	4
or MATH 170	Calculus I	
Internship		2
FISH/WLF 398	Renewable Natural Resources Internship	
FISH 498	Internship	
Fisheries Science	Electives (pick a minimum of 3 credits):	3
FISH 430	Riparian and River Ecology	
FISH 450	Ecology & Conservation of Freshwater Invertebrates	
FISH 451	Freshwater Invertebrate Field Methods	
FISH 497	Senior Thesis	
FISH 499	Directed Study	
Select one of the	following electives:	2-3
COMM 410	Conflict Management	
FOR/NRS 484	Forest Policy and Administration	
NRS 386	Managing Complex Environmental Systems	
NRS 387	Environmental Communication Skills	
NRS 311	Public Involvement in Natural Resource Management	
NRS 364	Politics of the Environment	
NRS 462	Natural Resource Policy	
NRS 383	Natural Resource and Ecosystem Service Economics	
NRS 488	NEPA in Policy and Practice	
WLF 205	Wildlife Law Enforcement	

Total Hours		25-26
WLF 440	Conservation Biology	

Courses to total 120 credits for this degree C. Aquaculture and Hatchery Management Emphasis

Code	Title	Hours
FISH 411	Fish Physiology	2
FISH 422	Concepts in Aquaculture	4
FISH 424	Fish Health Management	4
Select one of the	<u> </u>	3
ECON 201	Principles of Macroeconomics	
ECON 202	Principles of Microeconomics	
ECON 272	Foundations of Economic Analysis	
NRS 383	Natural Resource and Ecosystem Service Economics	
Internship:		2
FISH/WLF 398	Renewable Natural Resources Internship	
FISH 498	Internship	
Science Electives	s (select a minimum of 6 credits):	6
BIOL 250	General Microbiology	
BIOL 310	Genetics	
or GENE 31	4 General Genetics	
AVS 305	Animal Nutrition	
FISH 497	Senior Thesis	
FISH 499	Directed Study (Business Skills or Policy Elective (select a minimum of 6 credits):)	S
Business, Skills,	or Policy Electives (select a minimum of 6 credits):	6
AGEC 278	Farm and Agribusiness Management	
ASM 107	Beginning Welding	
BUS 190	Integrated Business and Value Creation	
COMM 410	Conflict Management	
ENTR 414	Entrepreneurship	
MKTG 321	Marketing	
NRS 311	Public Involvement in Natural Resource Management	
NRS 386	Managing Complex Environmental Systems	
NRS 387	Environmental Communication Skills	
NRS 462	Natural Resource Policy	
NRS 488	NEPA in Policy and Practice	
Total Hours		27

Courses to total 120 credits for this degree

A. Conservation Law Enforcement Emphasis

Fall Term 1		Hours
BIOL 114	Organisms and Environments	4
COMM 101	Fundamentals of Oral Communication	3
ENGL 101	Writing and Rhetoric I	3
MATH 143	College Algebra	3
NR 101	Exploring Natural Resources	2
1411 101	Exploring Natural Neoduroes	_
	Hours	15
Spring Term 1		
Spring Term 1	Hours	15

PSYC 101 Introduction to Psychology (CHEM 101 AND CHEM 101 L) OR (CHEM 111 AND CHEM 111L) Hours Fall Term 2 BIOL 115 Cells and the Evolution of Life BIOL 115L Cells and the Evolution of Life Laboratory CHEM 275 Carbon Compounds or CHEM 277 or Organic Chemistry I FOR 235 Society and Natural Resources WLF 220 Principles of Ecology or FOR 221 or Principles of Ecology WLF 201 Fish and Wildlife Applications Hours Spring Term 2 BIOL 213 Structure and Function Across the Tree of Life STAT 251 Statistical Methods WLF 205 Wildlife Law Enforcement WLF 370 Management and Communication of Scientific Data (GEOG 100 AND GEOG 100L) OR (GEOL 101 AND GEOL 101L) OR (CHYS 110 AND PHYS 100L) OR (CHYS 111 AND PHYS 111L) OR (SOIL 205 AND SOIL 206) Hours Fall Term 3 FISH 314 Fish Ecology FISH 398 OR WLF 398 OR FISH 498 PHIL 103 Introduction to Ethics SOC 101 Introduction to Ethics SOC 101 Introduction to Sociology BIOL 250 OR BIOL 310 OR GENE 314 Hours Spring Term 3 FISH 481 Ichthyology FISH 422 Concepts in Aquaculture or FISH 424 or Fish Health Management FISH 398 Renewable Natural Resources Internship FISH 418 Fisheries Management FISH 398 Renewable Natural Resources Internship FISH 418 Fisheries Management FISH 398 Renewable Natural Resources Internship FISH 418 Fisheries Management FOR 375 Fundamentals of Geomatics or GEOG 385 or Foundations of GIS Criminology/Sociology/Psychology, Major Elective Course Hours Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish Health Management FISH 425 Fisheries Seminar WLF 448 Fish Health Management FISH 425 Fisheries Seminar FISH 425 Fisheries Fisheries Coroncepts in Aquaculture or FISH 425 Fisheries Seminar FISH 426 Fish Health Management FISH 427 FISH 428 Fish Health Management FISH 428 Fish Health Management FISH 429 Fisheries Seminar FISH 429 Fisheries Seminar FISH 421 Fish Field Management FISH 422 Fish Health Management FISH 424 Fish Health Management FISH 425 Fisheries Seminar			
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FISH 315 Fish Ecology Field Techniques and Methods FISH 398 OR WLF 398 OR FISH 498 PHIL 103 Introduction to Ethics SOC 101 Introduction to Sociology BIOL 250 OR BIOL 310 OR GENE 314 Hours Spring Term 3 FISH 481 Ichthyology FISH 422 Concepts in Aquaculture or FISH 424 or Fish Health Management FISH 398 OR WLF 398 OR FISH 498 International Course Communication/Policy Course, Major Elective Course Hours Fall Term 4 FISH 398 Renewable Natural Resources Internship FISH 415 Limnology FISH 418 Fisheries Management FOR 375 Fundamentals of Geomatics or GEOG 385 or Foundations of GIS Criminology/Sociology/Psychology, Major Elective Course Hours Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management			
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Hours Spring Term 3 FISH 481	PHIL 103	Introduction to Ethics	3
Hours Spring Term 3 FISH 481	SOC 101	Introduction to Sociology	3
Spring Term 3 FISH 481	BIOL 250 OR BIOL 310	OR GENE 314	3
FISH 481 Ichthyology FISH 422 Concepts in Aquaculture or FISH 424 or Fish Health Management FISH 398 OR WLF 398 OR FISH 498 International Course Communication/Policy Course, Major Elective Course Hours Fall Term 4 FISH 398 Renewable Natural Resources Internship FISH 415 Limnology FISH 418 Fisheries Management FOR 375 Fundamentals of Geomatics or GEOG 385 or Foundations of GIS Criminology/Sociology/Psychology, Major Elective Course Hours Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management		Hours	15
FISH 422 Concepts in Aquaculture or FISH 424 or Fish Health Management FISH 398 OR WLF 398 OR FISH 498 International Course Communication/Policy Course, Major Elective Course Hours Fall Term 4 FISH 398 Renewable Natural Resources Internship FISH 415 Limnology FISH 416 Fisheries Management FOR 375 Fundamentals of Geomatics or GEOG 385 or Foundations of GIS Criminology/Sociology/Psychology, Major Elective Course Hours Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management	Spring Term 3		
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FISH 398 OR WLF 398 OR FISH 498 International Course Communication/Policy Course, Major Elective Course Hours Fall Term 4 FISH 398 Renewable Natural Resources Internship FISH 415 Limnology FISH 418 Fisheries Management FOR 375 Fundamentals of Geomatics or GEOG 385 or Foundations of GIS Criminology/Sociology/Psychology, Major Elective Course Hours Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management			4
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Hours Fall Term 4 FISH 498 Fish eries Management FOR 375 or GEOG 385 Criminology/Psychology, Major Elective Course Hours Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Hours Fish elective Course Fish end Wildlife Population Ecology FISH 424 Fish Health Management		OR FISH 498	1
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Fall Term 4 FISH 398 Renewable Natural Resources Internship FISH 415 Limnology FISH 418 Fisheries Management FOR 375 Fundamentals of Geomatics or GEOG 385 or Foundations of GIS Criminology/Sociology/Psychology, Major Elective Course Hours Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management	Communication/Policy		3
FISH 398 Renewable Natural Resources Internship FISH 415 Limnology FISH 418 Fisheries Management FOR 375 Fundamentals of Geomatics or GEOG 385 or Foundations of GIS Criminology/Sociology/Psychology, Major Elective Course Hours Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management		Hours	15
FISH 415 Limnology FISH 418 Fisheries Management FOR 375 Fundamentals of Geomatics or GEOG 385 or Foundations of GIS Criminology/Sociology/Psychology, Major Elective Course Hours Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management			
FISH 418 Fisheries Management FOR 375 Fundamentals of Geomatics or GEOG 385 or Foundations of GIS Criminology/Sociology/Psychology, Major Elective Course Hours Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management	FISH 398	Renewable Natural Resources Internship	1
FOR 375 Fundamentals of Geomatics or GEOG 385 or Foundations of GIS Criminology/Sociology/Psychology, Major Elective Course Hours Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management	FISH 415	Limnology	4
or GEOG 385 or Foundations of GIS Criminology/Sociology/Psychology, Major Elective Course Hours Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management	FISH 418	-	4
Criminology/Sociology/Psychology, Major Elective Course Hours Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management			3
Hours Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management			
Spring Term 4 FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management	Criminology/Sociology	y/Psychology, Major Elective Course	3
FISH 495 Fisheries Seminar WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management		Hours	15
WLF 448 Fish and Wildlife Population Ecology FISH 424 Fish Health Management			
FISH 424 Fish Health Management	FISH 495	Fisheries Seminar	1
<u> </u>	WLF 448	Fish and Wildlife Population Ecology	4
or FISH 422 or Concepts in Aquaculture			4
Humanistic and Artistic Ways of Knowing Course		•	3
American Diversity Course	American Diversity Cou	urse	3
Hours		Hours	15
Total Hours		Total Hours	120

The degree map is a guide for the timely completion of your curricular requirements. Your academic advisor or department may be contacted for assistance in interpreting this map. This map is not reflective of your academic history or transcript and it is not official notification of completion of degree or certificate requirements. Please contact the Registrar's Office regarding your official degree/certificate completion status.

B. Fisheries Science and Management Emphasis

Fall Term 1		Hours
BIOL 114	Organisms and Environments	4
COMM 101	Fundamentals of Oral Communication	3
ENGL 101	Writing and Rhetoric I	3
MATH 143	College Algebra	3
NR 101	Exploring Natural Resources	2
	Hours	15
Spring Term 1		
ENGL 102	Writing and Rhetoric II	3
FISH 102	The Fish and Wildlife Professions	1
MATH 160	Survey of Calculus	4
or MATH 170	or Calculus I	
(CHEM 101 AND CHEM	1101L) OR (CHEM 111 OR CHEM 111L)	4
(GEOL 101 AND GEOL PHYS 111L) OR (SOIL 2	101L) OR (PHYS 100 AND PHYS 100L) OR (PHYS 111 AND 205 AND SOIL 206)	4
	Hours	16
Fall Term 2		
BIOL 115	Cells and the Evolution of Life	3
BIOL 115L	Cells and the Evolution of Life Laboratory	1
WLF 220/FOR 221	Principles of Ecology	3
FOR 235	Society and Natural Resources	3
WLF 201	Fish and Wildlife Applications	2
American Diversity Cou	urse	3
•	Hours	15
Spring Term 2		
BIOL 213	Structure and Function Across the Tree of Life	4
CHEM 275	Carbon Compounds	3
STAT 251	Statistical Methods	3
WLF 370	Management and Communication of Scientific Data	3
	Ways of Knowing Course	3
Cociai ana Benaviorai	Hours	16
Fall Term 3	riouis	10
BIOL 250	General Microbiology	3
BIOL 255	General Microbiology Lab	2
	Fish Ecology	
		3
FISH 314	Fish Ecology Field Techniques and Methods	3
FISH 315	Fish Ecology Field Techniques and Methods	2
FISH 315 BIOL 310 OR GENE 314	4	2
FISH 315 BIOL 310 OR GENE 314	4 c Ways of Knowing Course	2 3 3
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti	4	2
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3	4 c Ways of Knowing Course Hours	2 3 3 16
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481	4 c Ways of Knowing Course Hours Ichthyology	2 3 3 16
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498	4 c Ways of Knowing Course Hours Ichthyology OR WLF 398	2 3 3 16 4
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Elec	4 c Ways of Knowing Course Hours Ichthyology	2 3 3 16 4 1
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Ele- International Course	4 c Ways of Knowing Course Hours Ichthyology OR WLF 398	2 3 3 16 4 1 4
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Elec	4 c Ways of Knowing Course Hours Ichthyology OR WLF 398 ctive, Major Elective Course	2 3 3 16 4 1 4 3
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Elective Course	4 c Ways of Knowing Course Hours Ichthyology OR WLF 398	2 3 3 16 4 1 4
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Elective Course Fall Term 4	4 c Ways of Knowing Course Hours Ichthyology OR WLF 398 ctive, Major Elective Course Hours	2 3 3 16 4 1 4 3 1
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Ele- International Course Elective Course Fall Term 4 FISH 415	4 c Ways of Knowing Course Hours Ichthyology OR WLF 398 ctive, Major Elective Course Hours Limnology	2 3 3 16 4 1 4 3 1 13
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Elective Course Fall Term 4 FISH 415 FISH 418	4 c Ways of Knowing Course Hours Ichthyology OR WLF 398 ctive, Major Elective Course Hours Limnology Fisheries Management	2 3 3 16 4 1 4 3 1 13
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Ele- International Course Elective Course Fall Term 4 FISH 415 FISH 418 FISH 398	4 c Ways of Knowing Course Hours Ichthyology OR WLF 398 ctive, Major Elective Course Hours Limnology Fisheries Management Renewable Natural Resources Internship	2 3 3 16 4 1 4 3 1 13 4 4
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Elective Course Elective Course Fall Term 4 FISH 415 FISH 418 FISH 398 FOR 375	4 c Ways of Knowing Course Hours Ichthyology OR WLF 398 ctive, Major Elective Course Hours Limnology Fisheries Management Renewable Natural Resources Internship Fundamentals of Geomatics	2 3 3 16 4 1 4 3 1 13
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Ele- International Course Elective Course Fall Term 4 FISH 415 FISH 418 FISH 398 FOR 375 or GEOG 385	4 c Ways of Knowing Course Hours Ichthyology OR WLF 398 ctive, Major Elective Course Hours Limnology Fisheries Management Renewable Natural Resources Internship Fundamentals of Geomatics or Foundations of GIS	2 3 3 16 4 1 4 3 1 13 4 4 4
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Ele- International Course Elective Course Fall Term 4 FISH 415 FISH 418 FISH 398 FOR 375 or GEOG 385	4 c Ways of Knowing Course Hours Ichthyology OR WLF 398 ctive, Major Elective Course Hours Limnology Fisheries Management Renewable Natural Resources Internship Fundamentals of Geomatics or Foundations of GIS c Ways of Knowing Course	2 3 3 16 4 1 4 3 1 13 4 4 1 3
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Elel International Course Elective Course Fall Term 4 FISH 415 FISH 418 FISH 398 FOR 375 or GEOG 385 Humanistic and Artisti	4 c Ways of Knowing Course Hours Ichthyology OR WLF 398 ctive, Major Elective Course Hours Limnology Fisheries Management Renewable Natural Resources Internship Fundamentals of Geomatics or Foundations of GIS	2 3 3 16 4 1 4 3 1 13 4 4 4
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Elel International Course Elective Course Fall Term 4 FISH 415 FISH 418 FISH 398 FOR 375 or GEOG 385 Humanistic and Artisti Spring Term 4	4 c Ways of Knowing Course Hours Ichthyology OR WLF 398 ctive, Major Elective Course Hours Limnology Fisheries Management Renewable Natural Resources Internship Fundamentals of Geomatics or Foundations of GIS c Ways of Knowing Course Hours	2 3 3 16 4 1 4 3 11 13 4 4 1 3 3 15
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Ele International Course Elective Course Fall Term 4 FISH 415 FISH 418 FISH 398 FOR 375 or GEOG 385 Humanistic and Artisti Spring Term 4 FISH 411	A c Ways of Knowing Course Hours Ichthyology OR WLF 398 ctive, Major Elective Course Hours Limnology Fisheries Management Renewable Natural Resources Internship Fundamentals of Geomatics or Foundations of GIS c Ways of Knowing Course Hours Fish Physiology	2 3 3 16 4 1 4 3 11 13 4 4 1 3 3 15
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Elective Course Fall Term 4 FISH 415 FISH 418 FISH 398 FOR 375 or GEOG 385 Humanistic and Artisti Spring Term 4 FISH 411 FISH 495	A c Ways of Knowing Course Hours Ichthyology OR WLF 398 ctive, Major Elective Course Hours Limnology Fisheries Management Renewable Natural Resources Internship Fundamentals of Geomatics or Foundations of GIS c Ways of Knowing Course Hours Fish Physiology Fisheries Seminar	2 3 3 16 4 1 4 3 11 3 4 4 1 3 15 2
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Elective Course Fall Term 4 FISH 415 FISH 418 FISH 398 FOR 375 or GEOG 385 Humanistic and Artisti Spring Term 4 FISH 411	A c Ways of Knowing Course Hours Ichthyology OR WLF 398 ctive, Major Elective Course Hours Limnology Fisheries Management Renewable Natural Resources Internship Fundamentals of Geomatics or Foundations of GIS c Ways of Knowing Course Hours Fish Physiology	2 3 3 16 4 1 4 3 11 13 4 4 1 3 15
FISH 315 BIOL 310 OR GENE 314 Humanistic and Artisti Spring Term 3 FISH 481 FISH 398 OR FISH 498 Fisheries Sciences Elective Course Fall Term 4 FISH 415 FISH 418 FISH 398 FOR 375 or GEOG 385 Humanistic and Artisti Spring Term 4 FISH 411 FISH 495	A c Ways of Knowing Course Hours Ichthyology OR WLF 398 ctive, Major Elective Course Hours Limnology Fisheries Management Renewable Natural Resources Internship Fundamentals of Geomatics or Foundations of GIS c Ways of Knowing Course Hours Fish Physiology Fisheries Seminar	2 3 3 16 4 1 4 3 11 3 4 4 1 3 15 2

Policy/Communications, Major Elective Course	3
Hours	14
Total Hours	120

C. Aquaculture and Hatchery Management Emphasis

Fall Term 1		
		Hours
BIOL 114	Organisms and Environments	4
COMM 101	Fundamentals of Oral Communication	3
ENGL 101	Writing and Rhetoric I	3
MATH 143	College Algebra	3
NR 101	Exploring Natural Resources	2
	Hours	15
Spring Term 1		
ENGL 102	Writing and Rhetoric II	3
FISH 102	The Fish and Wildlife Professions	1
	M 101L) OR (CHEM 111 OR CHEM 111L)	4
	G 100L) OR (GEOL 101 AND GEOL 101L) OR (PHYS 100 AND S 111 AND PHYS 111L) OR (SOIL 205 AND SOIL 206)	4
Business Skills, Major	r Elective Course	3
	Hours	15
Fall Term 2		
BIOL 115	Cells and the Evolution of Life	3
BIOL 115L	Cells and the Evolution of Life Laboratory	1
WLF 220/FOR 221	Principles of Ecology	3
FOR 235	Society and Natural Resources	3
WLF 201	Fish and Wildlife Applications	2
American Diversity Co	ourse	3
	Hours	15
Spring Term 2		
BIOL 213	Structure and Function Across the Tree of Life	4
STAT 251	Statistical Methods	3
CHEM 275	Carbon Compounds	3
or CHEM 277	or Organic Chemistry I	
WLF 370	Management and Communication of Scientific Data	3
Science Elective, Majo	or Elective Course	3
	Hours	16
Fall Term 3		
raii ieiiii 3		
FISH 314	Fish Ecology	3
	Fish Ecology Fish Ecology Field Techniques and Methods	3
FISH 314 FISH 315 (ECON 201) OR (ECON	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383)	
FISH 314 FISH 315	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383)	2
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383)	2
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 998) OR (FISH 498)	2 3 1
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 998) OR (FISH 498)	2 3 1 3
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 398) OR (FISH 498) tic Ways of Knowing Course	2 3 1 3 3
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 398) OR (FISH 498) tic Ways of Knowing Course	2 3 1 3 3
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course Spring Term 3	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 398) OR (FISH 498) tic Ways of Knowing Course Hours	2 3 1 3 3 15
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course Spring Term 3 FISH 481 FISH 422	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 398) OR (FISH 498) tic Ways of Knowing Course Hours Ichthyology Concepts in Aquaculture or Fish Health Management	2 3 1 3 3 15
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course Spring Term 3 FISH 481 FISH 422 or FISH 424	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 398) OR (FISH 498) tic Ways of Knowing Course Hours Ichthyology Concepts in Aquaculture or Fish Health Management	2 3 1 3 3 15
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course Spring Term 3 FISH 481 FISH 422 or FISH 424 (FISH 398) OR (WLF 3	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 398) OR (FISH 498) tic Ways of Knowing Course Hours Ichthyology Concepts in Aquaculture or Fish Health Management 398) OR (FISH 498)	2 3 1 3 3 15 4 4
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course Spring Term 3 FISH 481 FISH 422 or FISH 424 (FISH 398) OR (WLF 3 International Course	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 398) OR (FISH 498) tic Ways of Knowing Course Hours Ichthyology Concepts in Aquaculture or Fish Health Management 398) OR (FISH 498)	2 3 1 3 3 15 4 4
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course Spring Term 3 FISH 481 FISH 422 or FISH 424 (FISH 398) OR (WLF 3 International Course	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 198) OR (FISH 498) tic Ways of Knowing Course Hours Ichthyology Concepts in Aquaculture or Fish Health Management 198) OR (FISH 498) or Elective Course	2 3 1 3 3 15 4 4 4
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course Spring Term 3 FISH 481 FISH 422 or FISH 424 (FISH 398) OR (WLF 3 International Course Science Elective, Major	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 898) OR (FISH 498) tic Ways of Knowing Course Hours Ichthyology Concepts in Aquaculture or Fish Health Management 898) OR (FISH 498) or Elective Course Hours	2 3 1 3 3 15 4 4 4
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course Spring Term 3 FISH 481 FISH 422 or FISH 424 (FISH 398) OR (WLF 3 International Course Science Elective, Major	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 898) OR (FISH 498) tic Ways of Knowing Course Hours Ichthyology Concepts in Aquaculture or Fish Health Management 898) OR (FISH 498) or Elective Course Hours Limnology	2 3 1 3 3 15 4 4 1 3 4 16
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course Spring Term 3 FISH 481 FISH 422 or FISH 424 (FISH 398) OR (WLF 3 International Course Science Elective, Major Fall Term 4 FISH 415 FISH 418 FOR 375	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 198) OR (FISH 498) tic Ways of Knowing Course Hours Ichthyology Concepts in Aquaculture or Fish Health Management 198) OR (FISH 498) or Elective Course Hours Limnology Fisheries Management Fundamentals of Geomatics	2 3 1 3 3 15 4 4 1 3 4
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course Spring Term 3 FISH 481 FISH 422 or FISH 424 (FISH 398) OR (WLF 3 International Course Science Elective, Major Fall Term 4 FISH 415 FISH 418 FOR 375 or GEOG 385	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 898) OR (FISH 498) tic Ways of Knowing Course Hours Ichthyology Concepts in Aquaculture or Fish Health Management 898) OR (FISH 498) or Elective Course Hours Limnology Fisheries Management Fundamentals of Geomatics or Foundations of GIS	2 3 1 3 3 15 4 4 16 4 4 3
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course Spring Term 3 FISH 481 FISH 422 or FISH 424 (FISH 398) OR (WLF 3 International Course Science Elective, Major Fall Term 4 FISH 415 FISH 418 FOR 375 or GEOG 385	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 398) OR (FISH 498) tic Ways of Knowing Course Hours Ichthyology Concepts in Aquaculture or Fish Health Management 398) OR (FISH 498) or Elective Course Hours Limnology Fisheries Management Fundamentals of Geomatics or Foundations of GIS tic Ways of Knowing Course	2 3 1 3 3 15 4 4 16 4 4 3
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course Spring Term 3 FISH 481 FISH 422 or FISH 424 (FISH 398) OR (WLF 3 International Course Science Elective, Major Fall Term 4 FISH 415 FISH 418 FOR 375 or GEOG 385 Humanistic and Artist	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 898) OR (FISH 498) tic Ways of Knowing Course Hours Ichthyology Concepts in Aquaculture or Fish Health Management 898) OR (FISH 498) or Elective Course Hours Limnology Fisheries Management Fundamentals of Geomatics or Foundations of GIS	2 3 1 3 3 15 4 4 16 4 4 3
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course Spring Term 3 FISH 481 FISH 422 or FISH 424 (FISH 398) OR (WLF 3 International Course Science Elective, Major Fall Term 4 FISH 415 FISH 418 FOR 375 or GEOG 385 Humanistic and Artist	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 398) OR (FISH 498) tic Ways of Knowing Course Hours Ichthyology Concepts in Aquaculture or Fish Health Management 398) OR (FISH 498) or Elective Course Hours Limnology Fisheries Management Fundamentals of Geomatics or Foundations of GIS tic Ways of Knowing Course Hours	2 3 1 3 3 15 4 4 4 16 4 4 3 3
FISH 314 FISH 315 (ECON 201) OR (ECON (FISH 398) OR (WLF 3 Humanistic and Artist Elective Course Spring Term 3 FISH 481 FISH 422 or FISH 424 (FISH 398) OR (WLF 3 International Course Science Elective, Major Fall Term 4 FISH 415 FISH 418 FOR 375 or GEOG 385 Humanistic and Artist	Fish Ecology Field Techniques and Methods N 202) OR (ECON 272) OR (NRS 383) 398) OR (FISH 498) tic Ways of Knowing Course Hours Ichthyology Concepts in Aquaculture or Fish Health Management 398) OR (FISH 498) or Elective Course Hours Limnology Fisheries Management Fundamentals of Geomatics or Foundations of GIS tic Ways of Knowing Course	2 3 1 3 3 15 4 4 16 4 4 3

	Total Hours	120
	Hours	14
Business Skills, Major Elective Course		3
FISH 422 or FISH 424	Concepts in Aquaculture or Fish Health Management	4
WLF 448	Fish and Wildlife Population Ecology	4

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Shared Outcomes

- The student will be able to: identify regional fish species and describe their biological characteristics and ecological requirements,
- The student will be able to: develop and test hypotheses and produce tabular and graphic summaries of quantitative data.
- The student will be able to effectively use diverse forms of communication (written and oral) to convey information to scientific audiences
- The student will be able to explain and discuss diverse points of view about natural resource issues.
- 5. The student will be able to: work effectively in team settings.
- The student demonstrates an understanding of ethical professional behavior.

Science and Management Emphasis Area

7) The student will be able to: integrate biological, ecological and social information to make science-based recommendations for management.

Conservation Law Enforcement Emphasis area

- 7) Student can define basic legal terms and principles that apply to conservation law enforcement conservation
- 8) Student can demonstrate an understanding of the impact wildlife crime has on the resource