

FISHERIES AND WILDLIFE, MS

The accelerated (4+1) MS in Fisheries and Wildlife emphasizes understanding relationships between organisms and their habitats. The degree blends a conceptual understanding of fish and wildlife ecology, population dynamics, and management actions with practical skills obtained during laboratory and field exercises and research experiences. Students graduating from this rigorous, applied curriculum can meet the qualifications of state and federal natural resource management agencies as technicians and biologists. Students completing the MS program will demonstrate mastery of subject material relevant to their thesis topic.

Program Learning Outcomes

- Thoroughly research and synthesize primary literature relevant to a current scientific investigation
- Design and conduct a scientific investigation of a testable hypothesis or methodology using appropriate tools and techniques
- Effectively communicate the results or outcomes of their scientific investigation in multiple formats
- Meet certification requirements of their professional societies (e.g. American Fisheries Society or The Wildlife Society)
- Develop and demonstrate a sense of professionalism
- Demonstrate mastery of subject material relevant to their thesis topic

Fisheries and Wildlife Management, MS

Code	Title	Hours
BIOL 131	General Biology: Cells	4
BIOL 132	General Biology: Organisms	4
CHEM 115	General Chemistry I	5
CHEM 116	General Chemistry II	5
GIST 131	Introduction to GIS and GPS	3
MATH 111	College Algebra	3
MATH 112	Calculus Business/Life Science	4
NRES 101	Dev Sense Place Gr Lakes Reg	3
NRES 103	Fund of Natural Resources	3
NRES 199	Freshman Seminar	1
BIOL 202	Plant Science: Ident/Diversity	3
or NRES 284	Principles Forest Conservation	
CHEM 208	Survey Organic Chem/Biol Apps	4
or PHYS 221	Principles of Physics I	
BIOL 220	Genetics	4
NRES 250	Quantitative Ecology	3
NRES 299	Sophomore Seminar	1
NRES 310	Ichthyology	3
NRES 311	Mammalogy	3
NRES 333	Fish Ecology	3
BIOL 337	General Ecology	3
NRES 339	Wildlife Ecology	3
NRES 345	Limnology	4
NRES 350	Eco Data Analysis & Interpret	3
NRES 399	Junior Seminar: Project Design	1
NRES 532	Fisheries Management	3
NRES 539	Wildlife Management	3

NRES 550	Advanced Ecological Data Analy	3
NRES 695	Graduate Thesis	12
NRES 697	Current Topics	3
NRES 699	Graduate Seminar	1

Complete one of the following combinations:

Combination one:

NRES 312	Ornithology	3
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Two of the Following: 7-8

GIST 545	Remote Sensing & Spatial Stats	
NRES 570	Restoration Ecology	
NRES 572	Fish Culture	
NRES 575	Aquatic Entomology	

Combination two:

NRES 512	Ornithology	3
NRES/GIST/BIOL Elective (>100 level)		3

One of the Following: 3-4

GIST 545	Remote Sensing & Spatial Stats	
NRES 570	Restoration Ecology	
NRES 572	Fish Culture	
NRES 575	Aquatic Entomology	

Total Hours 117-119

General Education: All LSSU bachelor's degree candidates must complete the LSSU General Education Requirements.

A minimum of 139 credits (at the 100 level or higher) must be earned for graduation with a cumulative gpa of 2.00 or higher, as well as in your General Education Requirements. A gpa of 3.00 or higher is also required in your Major.

Fisheries and Wildlife Management, MS, Fisheries Concentration

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MATH 111	College Algebra	3
MATH 112	Calculus Business/Life Science	4
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NRES 103	Fund of Natural Resources	3
NRES 199	Freshman Seminar	1
CHEM 208	Survey Organic Chem/Biol Apps	4
BIOL 220	Genetics	4
or PHYS 221	Principles of Physics I	
NRES 250	Quantitative Ecology	3
NRES 299	Sophomore Seminar	1
NRES 310	Ichthyology	3
NRES 333	Fish Ecology	3
BIOL 337	General Ecology	3
NRES 345	Limnology	4
NRES 350	Eco Data Analysis & Interpret	3

NRES 399	Junior Seminar: Project Design	1
NRES 532	Fisheries Management	3
NRES 572	Fish Culture	3
NRES 550	Advanced Ecological Data Analy	3
NRES 695	Graduate Thesis	12
NRES 697	Current Topics	3
NRES 699	Graduate Seminar	1
NRES/GIST/BIOL Elective (>100 level)		8
Complete one of the following:		3
NRES 304	The Human Environment	
ECON 307	Environmental Economics	
EVRN 311	Environmental Law	
POLI 342	Internatl Environmental Policy	
Complete one of the following:		
GIST 545	Remote Sensing & Spatial Stats	
NRES 512	Ornithology	
NRES 570	Restoration Ecology	
Total Hours		100

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NRES 311	Mammalogy	3
BIOL 337	General Ecology	3
NRES 339	Wildlife Ecology	3
NRES 350	Eco Data Analysis & Interpret	3
BIOL 399	Planning Research Project	1
NRES 512	Ornithology	3
NRES 539	Wildlife Management	3
GIST 545	Remote Sensing & Spatial Stats	4

NRES 550	Advanced Ecological Data Analy	3
NRES 570	Restoration Ecology	3
NRES 695	Graduate Thesis	12
NRES 697	Current Topics	3
NRES 699	Graduate Seminar	1
Complete one course from the following:		3-4
NRES 230	Introduction to Soil Science	
NRES 286	Principles of Watersheds	
PHYS 221	Principles of Physics I	
Complete three of the following:		9
NRES 287	Conservation Biology	
NRES 304	The Human Environment	
ECON 307	Environmental Economics	
EVRN 311	Environmental Law	
POLI 342	Internatl Environmental Policy	
Total Hours		107-108

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