

FISHERIES AND WILDLIFE SCIENCE (AQUATIC ECOLOGY AND MANAGEMENT) - BACHELOR OF SCIENCE IN FISH, WILDLIFE AND CONSERVATION ECOLOGY

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1430G Applications of Calculus I and ENGL 1110G Composition I. The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

First Year		Credits
Semester 1		
MATH 1430G	Applications of Calculus I ¹	3
ENGL 1110G	Composition I ¹	4
FWCE 1110G	Introduction to Natural Resources Management	4
ACES 1120	Freshman Orientation	1
Area V: Humanities Course ²		3
Credits		15
Semester 2		
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory ¹	4
FWCE 2110	Principles of Fish and Wildlife Management	3
Choose from one of the following:		3
ACOM 1130G	Effective Leadership and Communication in Agriculture	
COMM 1115G	Introduction to Communication	
Area VI: Creative and Fine Arts ²		3
Choose from one of the following:		3
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Principles of Microeconomics	
Credits		16
Second Year		
Semester 1		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors ¹	4
CHEM 1121	General Supplemental Instruction I	1
FWCE 301	Wildlife Ecology	3
PHYS 1115G	Survey of Physics with Lab	4
Elective Course		3
Credits		15
Semester 2		
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors ¹	4
CHEM 1122	General Supplemental Instruction II	1

BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	4
BIOL 313	Structure and Function of Plants	3
Choose from one of the following:		3-4
FWCE 434	Aquatic Contaminants and Toxicology	
FWCE 459	Aquatic Ecology	
RGSC 318	Watershed Management	
Credits		15-16

Third Year		Credits
Semester 1		
ENGL 2210G	Professional and Technical Communication Honors	3
BIOL 322	Zoology (Fall Only) ¹	3
A ST 311	Statistical Applications ¹	3
VWW: Viewing a Wider World Course ³		3
Choose from one of the following:		4
SOIL 2110 & 2110L	Introduction to Soil Science and Introduction to Soil Science Laboratory ¹	
GEOL 1110G	Physical Geology ¹	
Credits		16

Semester 2		Credits
FWCE 330	Natural History of the Vertebrates (Spring Only) ¹	4
FWCE 357	Fisheries Management and Analysis (Spring Only in Even Years) ¹	4
Choose from one of the following:		4
EPWS 462	Parasitology	
FWCE 467	Herpetology ¹	
FWCE 482	Ichthyology ¹	
Elective Course		2
Credits		14

Fourth Year		Credits
Semester 1		
FWCE 391	Internship (Fall Only must be taken with FWCE 393) ¹	1
FWCE 393	Professional Experience and Communication (Fall Only Must be taken with FWCE 391) ¹	3
BIOL 312	Plant Taxonomy (Fall Only) ¹	3
FWCE 457	Ecological Biometry (Fall Only in Odd Years) ¹	3
FWCE 402	Seminar in Natural Resource Management	1
Choose from one of the following:		3
BIOL 305	Principles of Genetics ¹	
AGRO 305	Principles of Genetics ¹	
Elective Course		1
Credits		15

Semester 2		Credits
FWCE 409	Introduction to Population Ecology (Spring Only)	3
FWCE 464	Management of Aquatic and Terrestrial Ecosystems (Spring Only) ¹	3
BIOL 314	Plant Physiology (Spring Only) ¹	3
Choose from one of the following:		4
ANSC 370	Anatomy and Physiology of Farm Animals ¹	
BIOL 314	Plant Physiology ¹	
BIOL 381	Animal Physiology ¹	

Elective Course	1
Credits	14
Total Credits	120-121

¹ These courses have prerequisites and it is the students responsibility for checking and fulfilling all course prerequisites listed for these courses.

² See the General Education (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/>) section of the catalog for a full list of courses.

³ See the Viewing a Wider World (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext>) section of the catalog for a full list of courses.

Three credits can be taken inside the College of ACES, but three credits must also be taken outside the College of ACES or 9 credits can be taken within a single department (e.g. Biology) that is outside the College of Aces.