

# 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

Semester 1		Credits
MATH 1430G	Applications of Calculus I <sup>1</sup>	3
ENGL 1110G or ENGL 1110H	Composition I <sup>1</sup> or Composition I Honors	4
FWCE 1110G	Introduction to Natural Resources Management	4
ACES 1120	Freshman Orientation	1
Area V: Humanities Course <sup>2</sup>		3
<b>Credits</b>		<b>15</b>

### Semester 2

BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory <sup>1</sup>	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 or HNRS 2175G	Introduction to Communication or Introduction to Communication Honors	
Area VI: Creative and Fine Arts <sup>2</sup>		3
Choose from one of the following:		3
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Principles of Microeconomics Honors	
<b>Credits</b>		<b>16</b>

### Second Year

Semester 1		Credits
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors <sup>1</sup>	4
FWCE 301	Wildlife Ecology	3
PHYS 1115G	Survey of Physics with Lab	4
Elective Course		4
<b>Credits</b>		<b>15</b>
Semester 2		Credits
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors <sup>1</sup>	4

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:		4
FWCE 434	Aquatic Contaminants and Toxicology	
FWCE 459	Aquatic Ecology	
RGSC 318	Watershed Management	
<b>Credits</b>		<b>15</b>

### Third Year

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

### Semester 2

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

### Fourth Year

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

### Semester 2

FWCE 409	Introduction to Population Ecology (Spring Only)	3
FWCE 464 or FWCE 325	Fish and Wildlife Management, Law, and Policy (Spring Only) <sup>1</sup> or Human Dimensions of Fish and Wildlife	3
BIOL 314	Plant Physiology (Spring Only) <sup>1</sup>	3
Choose from one of the following:		4
ANSC 370	System Physiology of Farm Animals <sup>1</sup>	
BIOL 314	Plant Physiology <sup>1</sup>	
BIOL 381	Animal Physiology <sup>1</sup>	

Elective Course	1
<b>Credits</b>	<b>14</b>
<b>Total Credits</b>	<b>120</b>

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

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

<sup>3</sup> 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.*