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

The Department of Fish, Wildlife and Conservation Ecology prepares you for careers in a variety of natural resource fields related to the management of wild animal populations and the natural systems they share.

To graduate, an overall grade point average of 2.0 is required in courses taken in the major field and in all courses taken at NMSU. In addition, each required course must be passed with a grade of C- or better. The department offers a minor in Fish, Wildlife and Conservation Ecology for students majoring in other disciplines. The minor includes a minimum of 18 credit hours.

The Aquatic Ecology and Management Concentration is for students who want to focus on fish and aquatic systems.

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

General EducationArea I: CommunicationsEnglish Composition - Level 1ENGL 1110GComposition IENGL 2210GProfessional and Technical CommunicationBIGL 2210GProfessional and Technical CommunicationOral Communication3Oral Communication3ACOM 1130GEffective Leadership and Communication in AgricultureCOMM 1115GIntroduction to CommunicationCOMM 1115GPublic SpeakingArea II: Mathematics1MATH 1430GApplications of Calculus 1Area III/IV: Laboratory Sciences and Social/Behavioral Sciences11ECON 2110GMacroeconomic Principles or ECON 2120GPrinciples of Biology: Biodiversity, Ecology, and & BIOL 2610GBIOL 2610GPrinciples of Biology: Biodiversity, Ecology, and Evolution Laboratory1Select one from the Following:PHYS 1115GPHYS 1115GSurvey of Physics with Lab	Prefix	Title	Credits
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& BIOL 2610L Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory Select one from the following:	or ECON 2120G	Principles of Microeconomics Honors	
5		Evolution and Principles of Biology: Biodiversity, Ecology,	
PHYS 1115G Survey of Physics with Lab	Select one from the	following:	
	PHYS 1115G	Survey of Physics with Lab	

PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
Area V: Humanities ²		3
Area VI: Creative and	Fine Arts ²	3
General Education El	ective	
BIOL 2110G	Principles of Biology: Cellular and Molecular	4
& BIOL 2110L	Biology	
	and Principles of Biology: Cellular and Molecular Biology Laboratory	
Viewing a Wider Wo		3
	V requirment (3 credits) may be filled with the 9-	
	Please see your advisor for more information.	
Departmental/Colleg	-	
Departmental Core Co	ourses (29 credits)	
FWCE 1110G	Introduction to Natural Resources Management ⁴	4
or FWCE 1120	Contemporary Issues in Wildlife and Natural Resources Management	
FWCE 2110	Principles of Fish and Wildlife Management	З
FWCE 301	Wildlife Ecology	3
FWCE 330	Natural History of the Vertebrates	2
FWCE 391	Internship	1
FWCE 393	Professional Experience and Communication	3
FWCE 402	Seminar in Natural Resource Management	-
FWCE 409	Introduction to Population Ecology	3
FWCE 457	Ecological Biometry	3
FWCE 464	Management of Aquatic and Terrestrial Ecosystems	3
Departmental Botany	Requirements (9 credits)	
BIOL 312	Plant Taxonomy	3
or RGSC 316	Rangeland Plants	
BIOL 313	Structure and Function of Plants	3
Select one from the	following:	3
BIOL 314	Plant Physiology	
RGSC 325	Rangeland Restoration Ecology	
RGSC 357	Grass Taxonomy and Identification	
RGSC 440	Rangeland Resource Ecology	
Departmental Physio	logy Requirements (3-4 credits)	
Select 3-4 credits fro	om the following:	3-4
ANSC 370	System Physiology of Farm Animals	
BIOL 314	Plant Physiology	
BIOL 381	Animal Physiology	
FWCE 432	Environmental Biology of Fishes	
Concentration Course	ework	
Techniques		
FWCE 357	Fisheries Management and Analysis	4
Management		
Choose one from the	e following:	3-4
FWCE 434	Aquatic Contaminants and Toxicology	
FWCE 459	Aquatic Ecology	
RGSC 318	Watershed Management	
Organismal Biology		
Choose one from the	e following: ⁵	3-4
EPWS 462	Parasitology	
FWCE 467	Herpetology	
FWCE 482	Ichthyology	
	6	

Wildlife Ecology and Management Electives ⁶

Non-Departmental Requirements (in addition to Gen.Ed/VWW)⁷

1

3-4

Total Credits		120
Electives, to bring t	he total credits to 120 ⁸	4-9
Second Language: (not required)		
SOIL 2110 & 2110L	Introduction to Soil Science and Introduction to Soil Science Laboratory	
GEOL 1110G	Physical Geology	
Select one from the	e following:	4
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
BIOL 322	Zoology	3
A ST 311	Statistical Applications	3
or BIOL 305	Principles of Genetics	
AGRO 305	Principles of Genetics	3

- ¹ MATH 1430G Applications of Calculus I or MATH 1511G Calculus and Analytic Geometry I is required for the degree but students may need to take any prerequisites needed to enter MATH 1430G or MATH 1511G first.
- ² See General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/) section of the catalog for a full list of courses.
- ³ See Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/generaleducation-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.

- ⁴ Off campus students can take FWCE 1120 Contemporary Issues in Wildlife and Natural Resources Management Distance Education.
- ⁵ At least one course chosen must be a vertebrate taxonomy course with FWCE prefix, i.e., one of FWCE 467 Herpetology or FWCE 482 Ichthyology.
- ⁶ Wildlife Concentration Electives (any course for 3-4 credits from the Techniques, Management or Organismal Biology areas):
 Techniques
 - FWCE 355 Wildlife Techniques and Analysis

Management

- FWCE 437 Wildlife Damage Management
- · FWCE 447 Wildlife Law and Policy
- RGSC 325 Rangeland Restoration Ecology

Organismal Biology

- BIOL 484 Animal Communication
- EPWS 303 Economic Entomology
- EPWS 462 Parasitology
- FWCE 430 Avian Field Ecology
- FWCE 431 Mammalogy
- FWCE 467 Herpetology

⁷ Students intending to pursue graduate studies should also take CHEM 2115 Survey of Organic Chemistry and Laboratory.

⁸ Elective credit may vary based on General Education course selection, prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

Additional Electives

Take additional credits so the total adds up to at least 120 credits including 55 credits 300- and 400-level classes.

Students are encouraged to pursue a minor course of study with a department of their choosing.

Compatible minors include, but are not limited to:

- · animal science,
- biology,
- chemistry,
- · environmental science,
- · forensic sciences,
- geography,
- journalism,
- management,
- · and range science.

Notes:

- 1. No more than 6 credits of Physical Education classes will count towards your degree.
- 2. Maximum of two grades of 'D' in FWCE classes will count towards a student's degree.

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 ¹	3
ENGL 1110G	Composition I ¹	4
FWCE 1110G	Introduction to Natural Resources Management	4
ACES 1120	Freshman Orientation	1
Area V: Humanities Co	urse 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 th	e following:	3
ACOM 1130G	Effective Leadership and Communication in Agriculture	
COMM 1115G	Introduction to Communication	
Area VI: Creative and Fine Arts ²		
Choose from one of the following:		

ECON 21106Macroeconomic PrinciplesECON 21206Principles of Microeconomics HonorsCredits16Second YearSemester 1CHEM 12156General Chemistry I Lecture and Laboratory for STEM Majors 14FWCE 301Wildife Ecology3PHYS 11156Survey of Physics with Lab4Elective Course3Credits15Semester 23CHEM 122256General Chemistry II Lecture and Laboratory for STEM Majors 14EloL 21106Principles of Biology. Cellular and Molecular Molecular Biology Laboratory48IOL 21101Biology and Principles of Biology. Cellular and Molecular Biology Laboratory3BIOL 313Structure and Function of Plants3Cheed 11Credits15-16Third YearSemester 1ENGL 22106Professional and Technical Communication semester 13Choose from one of the following: Credits4SOIL 21101Introduction to Soil Science & 211013SC 2009 (Fall Only) 133Choose from one of the following: WW: Viewing a Wider World Course 33Choose from one of the following: Credits4SUL 2110Introduction to Soil Science & 211013Choose from one of the following: Credits4SUL 2110Introduction to Soil Science NUW: Viewing a Wider World Course 33Choose from one of the following: Credits4SUL 2110Introduction to Soil Science NUW				
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for STEM Majors 1CHEM 1122General Supplemental Instruction II1BIOL 2110GPrinciples of Biology Cellular and Molecular4& BIOL 2110LBiology and Principles of Biology Cellular and Molecular Biology Laboratory3BIOL 313Structure and Function of Plants3Choose from one of the following:3-4FWCE 439Aquatic Contaminants and Toxicology FWCE 4594FWCE 459Aquatic EcologyRGSC 318Watershed ManagementCredits15-16Third YearSemester 1Semester 1Statistical Applications 1SOL 2210GProfessional and Technical CommunicationA ST 311Statistical Applications 130AST 311Statistical Applications 13Choose from one of the following:4SOIL 2110Introduction to Soil Science & 2110Land Introduction to Soil Science & 2110L16Semester 2FWCE 330FWCE 357Fisheries Management and Analysis (Spring Only)FWCE 357Fisheries Management and Analysis (Spring Only)FWCE 467Herpetology 1FWCE 467Herpetology 1FWCE 482Ichthylogy 1Elective Course2Credits14FOurth YearSemester 11FWCE 391Internship (Fall Only must be taken with FWCE 391)FWCE 393Professional Experience and Communication (Fall Only Must be taken with FWCE 391)Silol 312Plant Taxonomy (Fall Only) 1<	Semester 2			
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& BIOL 2110L Biology and Principles of Biology. Cellular and Molecular Biology Laboratory 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 1 Credits 15-16 Third Year Semester 1 ENGL 2210G Professional and Technical Communication 3 BIOL 322 Zoology (Fall Only) ¹ 3 A ST 311 Statistical Applications ¹ VWW: Viewing a Wider World Course ³ Choose from one of the following: 4 SOIL 2110 Introduction to Soil Science & 2110L and Introduction to Soil Science Laboratory ¹ GEOL 1110G Physical Geology ¹ Credits 16 Semester 2 FWCE 330 Natural History of the Vertebrates (Spring Only) ¹ Choose from one of the following: 4 EWCE 357 Fisheries Management and Analysis (Spring Only in Even Years) ¹ Choose from one of the following: 4 EPWS 462 Parasitology ¹ FWCE 467 Herpetology ¹ FWCE 467 Herpetology ¹ FWCE 47 Herpetology ¹ FWCE 482 Ichthyology ¹ Elective Course 2 Credits 14 FWCE 391 Internship (Fall Only must be taken with FWCE 393 Professional Experience and Communication (Fall Only Must be taken with FWCE 391) ¹ BIOL 312 Plant Taxonomy (Fall Only) ¹ 3 FWCE 467 Ecological Biometry (Fall Only) ¹ 3 FWCE 402 Seminar in Natural Resource Management 1	CHEM 1122	General Supplemental Instruction II	1	
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FWCE 402 Seminar in Natural Resource Management 1	FWCE 457		3	
-	FWCE 402		1	
	Choose from one of		3	

	Total Credits	120-121
	Credits	14
Elective Course		1
BIOL 381	Animal Physiology ¹	
BIOL 314	Plant Physiology ¹	
ANSC 370	System Physiology of Farm Animals ¹	
Choose from one of th	e following:	4
BIOL 314	Plant Physiology (Spring Only) ¹	3
FWCE 464	Management of Aquatic and Terrestrial Ecosystems (Spring Only) ¹	3
FWCE 409	Introduction to Population Ecology (Spring Only)	3
Semester 2		
	Credits	15
Elective Course		1
AGRO 305	Principles of Genetics ¹	
BIOL 305	Principles of Genetics ¹	

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/generaleducation-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.