

HNFS 263, Food Science I.....	3
HNFS 363, Quantity Food Production & Service.....	4
HNFS 325, Food Analysis; HNFS 331, Food Preservation; HNFS 421, Food Chemistry; or HNFS 426, Dairy Products Manufacturing.....	3
HNFS 430, Food Service Organization & Management.....	3
HNFS 447, Experimental Foods.....	3
<b>Nondepartmental Requirements</b>	
HRTM 202, Hospitality Financial Systems; or ACCT 251, Management Accounting; or ACCT 252, Financial Accounting.....	3
MGT 332, Human Resources Management, or MGT 309, Human Behavior in Organizations, or HRTM 303, Hospitality Human Resource Management.....	3

## FISHERY and WILDLIFE SCIENCES

**Professor Donald F. Caccamise, department head**  
**Professors** Valdez; **Associate Professor** Andersen; Caldwell, Desmond; **Assistant Professors** Bender, Boeing, Cowley, Roemer  
 (505) 646-7051; natres@nmsu.edu

**DEGREE: Bachelor of Science in Agriculture**  
**MAJOR: Wildlife Science**  
**OPTION: Wildlife Management Practice**  
**OPTION: Preparation for Graduate Studies**  
**OPTION: Natural Resource Management**

**DEGREE: Bachelor of Science in Conservation Ecology**  
**MAJOR: Conservation Ecology**

**MINORS: Conservation Ecology**  
**Wildlife Science**

**DEGREE: Bachelor of Science in Conservation Ecology**  
 New Mexico State University offers a new interdisciplinary, undergraduate program in Conservation Ecology. Program details and degree requirements are listed under "Cross-College Degrees" (pages 104-105).

**DEGREE: Bachelor of Science in Agriculture**  
 The department prepares you for careers in a variety of natural resource fields related to management of wild animal populations and the natural systems they share.

Within the wildlife science major you are offered three options. The first is Wildlife Management Practice. Course work in this option provides training in the basic sciences but concentrates on applied skills in wildlife and fisheries management. If you complete this option, you will be ready for entry-level positions with government agencies and private enterprises specializing in natural resource management. The option in Natural Resource Management is broad in scope while providing a strong background in the fundamental sciences. It includes sound training in the theory and practice of traditional management as well as a solid grounding in supporting disciplines like economics, geography, and geology. It is intended for students with broader interests than traditional wildlife science. The third option, Preparation for Graduate Studies in Wildlife Science, offers a broad foundation in basic sciences. It is intended for students wishing to pursue advanced degrees in wildlife science or related disciplines in the natural sciences. This option prepares you for careers in higher education, research, and administration.

If you wish to become a certified fishery biologist, you should include the following courses in your curriculum: WLSC 458, WLSC 465, WLSC 482, and WLSC 432. Requirements for becoming a certified wildlife biologist are met by all options.

To graduate with a major in Wildlife Science, an overall grade point average of 2.00 is required in courses taken in the major field and in all courses taken at NMSU.

The department offers a minor in Wildlife Science for students majoring in other disciplines. The minor includes a minimum of 19 credits, with 13 credits in required courses and 6 in wildlife electives.

**Core Requirements (total credits: 89-97)**

BIOL 111G and 111L, Natural History of Life and Laboratory.....	4
BIOL 301, Principles of Ecology.....	3
BIOL 305, Principles of Genetics.....	3
BIOL 312, Identification and Classification of Western Plants, ..... or RGSC 307, Rangeland Grasses, and RGSC 316, Rangeland Plants.....	3
BIOL 313, Structure and Function of Plants.....	5
BIOL 322, Zoology.....	3
CHEM 111, General Chemistry I.....	3
CHEM 112, General Chemistry II.....	4
COMM 265G, Principles of Human Communication; or COMM 253G, Public Speaking; or AXED 201G, Effective Leadership and Communication in Agricultural Organizations.....	4
C S: Any level computer science course 100 or above including, C S 110G, Computer Literacy, or AG E 250G, Life with Microcomputers.....	3
ECON 251G, Principles of Macroeconomics, or ECON 252G, Principles of Microeconomics.....	3
ENGL 111G, Rhetoric and Composition.....	3
ENGL 311G, Advanced Composition.....	4
ENGL 318G, Advanced Technical and Professional Communication.....	3
E ST 311G, Statistical Applications.....	3
MATH 115, Intermediate Algebra, and 142G, Calculus for Biological and Management Sciences; or MATH 191, Calculus and Analytical Geometry I, and MATH 192, Calculus and Analytical Geometry II.....	6
PHYS: Any physiology course from among the following: ANSC 370, BIOL 311, BIOL 314, BIOL 377, BIOL 381, BIOL 442, BIOL 474, WLSC 432	
WLSC 110, Introduction to Natural Resources Management.....	3
WLSC 230, Natural History of the Vertebrates.....	4
WLSC 255, Principles of Natural Resource Management.....	3
WLSC 355, Techniques of Natural Resource Management,..... or WLSC 356, Field Techniques of Natural Resource Management, ..... or RGSC 452, Rangeland Analysis.....	3
WLSC 402, Seminar in Natural Resource Management.....	2
WLSC 409, Population Ecology.....	3
WLSC 447, Wildlife Law Administration and Policy.....	3
WLSC 445, Systems Ecology in Wildlife Management.....	3
Historical Perspectives: one general education course.....	3
Human Thought and Behavior: one general education course.....	3
Literature or Fine Arts: one general education course.....	3
Viewing a Wider World: ECON 337G, Natural Resource Economics or ECON 384G, Water Resource Economics.....	3
Viewing a Wider World: The second course requirement satisfied by 9 credits in biology	

**OPTION: Wildlife Management Practice (total credits: 23-25)**

**General Option Requirements (8 credits)**

PHYS 110G, Great Ideas in Physics.....	4
SOIL 252 and 252L, Soils and Laboratory, or GEOL 111, Geology.....	4
Required Departmental Electives (any combination totaling 9 credits)	
WLSC 310, Managing Ecological Systems for Biodiversity.....	3
WLSC 360, Introduction to Wildlife Behavior.....	3
*WLSC 432, Environmental Biology of Fishes.....	4
WLSC 434, Aquatic Contaminants and Toxicology.....	4
WLSC 437, Wildlife Damage Control.....	3
WLSC 440, Fish and Wildlife Habitat Management.....	3
WLSC 448, Problems.....	1-3
WLSC 450, Special Topics.....	1-4
*WLSC 458 and 458L, Ecology of Inland Waters and Lab.....	4
*WLSC 465 Advanced Management of Aquatic Systems.....	3
WLSC 466, Advanced Management of Wildlife—Mammals.....	3
WLSC 488, Communicating Wildlife Resource Conservation in Society.....	3

**Requirements in Biodiversity (any two courses totaling 6-8 credits)**

BIOL 445, Herpetology.....	4
BIOL 465, Invertebrate Zoology.....	4
WLSC 430, Avian Field Ecology, or BIOL 447, Ornithology.....	4
WLSC 431, Forest and Range Mammals.....	3

\*WLSC 482, Ichthyology ..... 3

**Additional Courses**

Electives to bring total to 128 credits and college credits to 35 credits.....6-16

\*Courses required to become a Certified Fisheries Associate or Professional.

**OPTION: Natural Resource Management (total credits: 33-35)**

**General Requirements (27 credits)**

BIOL 211G and 211L, Cellular and Organismal Biology and Lab..... 4  
 ECON 384, Water Resources Economics ..... 3  
 GEOG 381, Cartography and Geographic Information Systems ..... 3  
 PHYS 110G, Great Ideas in Physics ..... 4  
 RGSC 318, Watershed Management ..... 3  
 SOIL 252 and 252L, Soils and Laboratory, or GEOL 111, Geology ..... 4  
 WLSC 310, Managing Ecological Systems for Biodiversity, or BIOL 462, Conservation Biology ..... 3

**Requirement in Aquatic Systems (one course of at least 3 credits)**

WLSC 432, Environmental Biology of Fishes..... 4  
 WLSC 434, Aquatic Contaminants and Toxicology ..... 3  
 WLSC 458 and 458L, Ecology of Inland Waters and Lab ..... 4  
 WLSC 465, Advanced Management of Aquatic Systems..... 3

**Requirement in Terrestrial Systems (one course of 3 credits)**

BIOL 470, Plant Community Ecology ..... 3  
 BIOL 468, Avian Ecology ..... 3  
 RGSC 317, Rangeland Communities ..... 3  
 RGSC 325, Rangeland Restoration Ecology ..... 3  
 RGSC 440, Rangeland Resource Ecology ..... 3  
 WLSC 466, Advanced Wildlife Management of Mammals (prerequisite WLSC 431, Forest and Range Mammals) ..... 3

**Requirement in Physical Environments (one course of 3 credits)**

GEOL 318, Geology of New Mexico ..... 3  
 GEOG 351, Fundamentals of Biogeography ..... 3  
 GEOG 353, Geomorphology (prerequisite GEOL 111G, Survey of Geology) ..... 3  
 GEOG 481, Fundamentals of Geographic Information Systems..... 3

**Additional Courses**

Electives to bring total to 128 credits and college credits to 35 credits.....0-6

**OPTION: Preparation for Graduate Studies in Wildlife Science (total credits: 26-28)**

**Option Requirements (20 credits)**

BIOL 211G and 211L, Cellular and Organismal Biology and Lab ..... 4  
 BCHE 341, Survey of Biochemistry, or SOIL 252 and 252L, Soils and Lab ..... 4  
 CHEM 211, Organic Chemistry ..... 4  
 PHYS 211 and 211L, General Physics I and Lab ..... 4  
 PHYS 212 and 212L, General Physics II and Lab ..... 4

**Requirements in Biodiversity (any two courses totaling 6 credits)**

BIOL 445, Herpetology ..... 4  
 BIOL 465, Invertebrate Zoology ..... 4  
 WLSC 430, Avian Field Ecology, or BIOL 447, Ornithology ..... 4  
 WLSC 431, Forest and Range Mammals ..... 3  
 WLSC 482 Ichthyology ..... 3

**Additional Courses**

Electives to bring total to 128 credits and college credits to 35 credits.....3-13

**MINOR: Wildlife Science (19 credits)**

WLSC 230, Natural History of the Vertebrates.....4  
 WLSC 255, Principles of Natural Resource Management .....3  
 WLSC 355, Techniques of Natural Resource Management .....3  
 WLSC 455, Systems Ecology and Management.....3  
 Electives in Fishery and Wildlife Science, 3 credits must be upper division...6

**MANAGEMENT**

Ms. Janet L. Green, department head

Associate Professors Bloomquist, Mandabach; Assistant Professors Blanch, Lee  
 (505) 646-5995

**DEGREE: Bachelor of Science in Hotel, Restaurant, and Tourism Management  
 MAJOR:-Hotel, Restaurant, and Tourism Management**

The mission of the Department of Hotel, Restaurant, and Tourism Management is to serve the needs of our constituents through innovative teaching, research, professional applications, and partnerships in a multicultural and international environment.

This bachelor's degree program prepares you for supervisory and entry-level management positions in all areas of the diverse and growing hospitality and tourism industry. The program also provides a foundation for your continuing development to advance to more senior management or to pursue entrepreneurial opportunities. In this professional program, faculty, students, and industry partners bring together theory and practice to forge hospitality management excellence. The curriculum is designed to educate students as individuals and professionals in a changing society. You will take a core curriculum until your senior year, when you may specialize in one of the three concentration areas listed, or develop an individual plan with your faculty adviser for selecting your professional elective courses. A grade of C or better must be earned in each upper-division HRTM class to satisfy the requirement of the major.

You are required to participate in an internship program that is offered only after completion of 400 hours of hospitality work experience (practicum). The HRTM 407, 408, and 409 internship sequence, which includes another 400 hours in the field, must be completed prior to enrolling in other 400-level courses. Thus, at the end of both the work experience practicum and the internship, you will have completed a minimum of 800 hours professional work experience in the field.

**Hotel, Restaurant, and Tourism Management Core Courses**

**General Education Requirements (44 credits)**

A list of specific general education requirements is available in the department. Please check with your adviser.

**Departmental Requirements (43 credits)**

HRTM 201, The Tourism System and Travel Services .....3  
 HRTM 202, Hospitality Financial Systems I.....3  
 HRTM 207, Professional Development ..... 1  
 HRTM 211, Hospitality Leadership and Services Management.....3  
 HRTM 221, Introduction to Hospitality Management.....3  
 HRTM 301, Hotel, Restaurant, and Tourism Marketing .....3  
 HRTM 302, Hospitality Financial Systems II .....3  
 HRTM 303, Hospitality Human Resources Management .....3  
 HRTM 304, Hospitality and Travel Law.....3  
 HRTM 331, Hotel Operations Management.....3  
 HRTM 362, Food Service Management.....3  
 HRTM 363, Quantity Food Production and Service .....4  
 HRTM 402, Hospitality Financial Management.....3  
 HRTM 407, Internship Development.....1  
 HRTM 408, Hospitality Internship .....1  
 HRTM 409, Internship Seminar .....1  
 HRTM 434, Hospitality Operations and Planning Seminar.....3

**Nondepartmental Requirements (13 credits)**

HNFS 163, Nutrition for Health, or HNFS 251, Human Nutrition, or HNFS 301, Nutrition Lifestyle Management.....3  
 MKTG 303, Principles of Marketing, or JOUR 300, Introduction to Advertising.....3  
 MGT 334, Labor Relations, or MGT 359, The Management of Diversity, or MGT 388G, Leadership and Society, or MGT 201, Introduction to Management.....3  
 SPAN 111, Elementary Spanish I.....4

**HOTEL, RESTAURANT, and TOURISM**