

MINOR: Livestock Production

A minor in Livestock Production consists of at least 19 credits

ANSC 100, Introductory Animal Science or ANSC 200, Introductions to Meat Animal Production.....3

ANSC 262, Introduction to Meat Science.....3

ANSC 303, Livestock, Meat, and Wool Evaluation.....4

ANSC 304, Feeds and Feeding.....3

Students must complete at least 2 courses from the following list: ANSC 314, Swine Production; ANSC 414, Sheep and Wool Production; ANSC 415, Horse Production; ANSC 416, Beef Production; ANSC 417, Dairy Production.....6

MINOR: Range Science

A minor in Range Science consists of at least 18 credits.

RGSC 294, Rangeland Resource Management.....3

RGSC 316, Rangeland Plants.....2

RGSC 325, Rangeland Restoration Ecology.....3

RGSC 452, Rangeland Analysis.....4

Students must complete at least 2 courses from the following list:

RGSC 302G, Forestry and Society.....3

RGSC 307, Rangeland Grasses.....3

RGSC 317, Rangeland Communities.....3

RGSC 318, Watershed Management.....3

RGSC 440, Rangeland Resource Ecology.....4

RGSC 460, Advanced Rangeland Management.....4

ENTOMOLOGY, PLANT PATHOLOGY, and WEED SCIENCE

Professor H. Grant Kinzer, department head

Professors Byford, Ellington, Kemp, Lindsey, Schroeder, Sterling, Thomas; **Associate Professors** English, Pierce, Sanderson, Thompson; **Assistant Professors** Bundy, Creamer, Hanson, Sanogo; **Adjunct Professors** Banks, Berkson, Bleiweiss, Miller

(505) 646-3225

DEGREE: Bachelor of Science in Agriculture

MAJOR: Agricultural Biology

OPTION: Agricultural Chemical Sales

Applied Biology

Entomology

Environmental Biology

Pest Management

MINORS: Pest Management

Entomology

Plant Pathology

Weed Science

College requirements are 35 credits in the College of Agriculture and Home Economics. Specific courses that meet these and the university general education requirements and additional courses in biology, chemistry, mathematics, and seminar are included below in departmental requirements. A total of 128 credits are required for graduation. At least 55 credits must be 300-level courses and above. Schedules in specific semesters will be developed with the help of a student's academic adviser.

DEGREE: Bachelor of Science in Agriculture

MAJOR: Agricultural Biology

The agricultural biology course work prepares you for a variety of careers in the biological sciences and agriculture. You will develop your curriculum with an academic adviser to attain your individual goals. Many

will pursue advanced degrees in the sciences or prepare for admittance to professional schools (medical, dental, etc.). A diverse program is offered with five separate options that allow you to tailor your program for careers in the commercial sector, such as agricultural consulting, chemical sales, and pest management or for careers with county, state, or federal agencies, such as research technicians, inspectors, and extension agents.

Departmental Requirements

Courses marked with an asterisk (*) are required to fulfill general education requirements.

AG E 250G, Life with Microcomputers, or C S 110G, Computer Literacy.....3

ANSC/BIOL 305, Genetics.....3

BIOL 111G, Natural History of Life, and BIOL 211G, Cellular and Organismal Biology.....6

BIOL 311, General Microbiology.....3

BIOL 313, Structure and Function of Plants, or BIOL 322, Zoology.....3

CHEM 111, 112, General Chemistry I, II*.....8

COMM 265G, Principles of Human Communication, or COMM 253G, Public Speaking, or AXED 201G, Effective Leadership and Communication in Agricultural Organizations*.....3

ECON 201G, ECON 251G, or ECON 252G*.....3

ENGL 111G, Freshman Composition*.....4

ENGL 311G, Advanced Composition, or ENGL 318G, Advanced Technical and Professional Communication*.....3

EPWS 100, Introduction to Pest Management.....3

EPWS 100L, Pest Management Laboratory.....1

EPWS 303, Economic Entomology.....4

EPWS 310, Plant Pathology.....4

EPWS 311, Weed Science.....4

EPWS 447, Seminar.....1

E ST311G, Statistical Applications*.....3

SOIL 252, Soils.....3

General education electives from the following categories:

• Historical Perspectives.....3

• Human Thought and Behavior.....3

• Literature or Fine Arts.....3

• Viewing a Wider World.....6

Agricultural Biology Options

In addition to the departmental requirements listed above, you must also complete all of the courses in at least one of the options listed below. Courses with higher numbered prefixes may replace courses listed as departmental requirements in some cases. Courses marked with an asterisk (*) are required to fulfill general education requirements.

OPTION: Agricultural Chemical Sales

Offered jointly with the Department of Agricultural Economics and Agricultural Business.

ACCT 251, Management Accounting.....3

BLAW 316, Legal Environment of Business.....3

EPWS 390, Internship.....2-3

EPWS 481, Nematology, or EPWS 462, Parasitology.....3

EPWS 492, Diagnosing Plant Disorders.....3

MATH 115, Intermediate Algebra or above.....3

MATH 142G, Calculus for Biological and Management Sciences I*.....3

MKTG 312, Personal Selling.....3

PHYS 110G, Introduction to Physics or above.....4

Approved Electives in AG E.....9

OPTION: Applied Biology/Preprofessional

The Applied Biology option prepares you for professional advancement including admittance to medical, dental, veterinary, and graduate schools. Students interested in the health professions must register with the Health Professional Advisory Committee no later than the sophomore year.

BCHE 341, Survey of Biochemistry.....4

CHEM 313, 314, 315, Organic Chemistry I, II, and Lab.....8

MATH 180, Matrices and Linear Programming.....3

MATH 185, College Algebra.....3

MATH 191, 192, Calculus and Analytical Geometry I, II.....6

PHYS 211, 211L, General Physics I, General Physics I Laboratory.....4

PHYS 212, General Physics II.....3

Choose two of the following courses:

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| ANSC 370, Anatomy and Physiology of Farm Animals; BIOL 312, Plant Taxonomy; BIOL 330, Comparative Anatomy and Embryology; BIOL 354, Physiology of Humans; BIOL 377, Cell Biology; EPWS 314, Plant Physiology; EPWS 434, Insect Taxonomy; EPWS 472, Mycology..... | 6-8 |
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OPTION: Environmental Biology

The Environmental Biology option prepares you for professional positions in environmental impact, regulation, compliance, and improvement.

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| AGHE 380G, Ecosystem Earth..... | 3 |
| CH E 330, CH E 430, Environmental Seminars I, II..... | 2 |
| CHEM 211, Organic Chemistry..... | 3 |
| EPWS 314, Plant Physiology..... | 3 |
| EPWS 390, Internship..... | 2-3 |
| EPWS 451, Special Topics, Environmental Biology..... | 3 |
| MATH 115, Intermediate Algebra..... | 3 |
| MATH 142G, Calculus for Biological and Management Sciences I*..... | 3 |
| PHYS 211, 211L, General Physics I..... | 4 |
| SOIL 257, Meteorology..... | 3 |
| TOX 361, Basic Toxicology..... | 3 |

Electives may be chosen from the areas of:

- Basic Science—biology, botany, zoology
- Environment—meteorology, pollution, agricultural practices, biodiversity
- Toxicology—pesticides, worker safety, food safety
- Communication skills
- Math, statistics, modeling

OPTION: Entomology

The Entomology option prepares you for graduate degrees in entomology. Emphasis is placed on a broad background in field and laboratory aspects of insect biology and management.

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| AGRO 471, Plant Mineral Nutrition..... | 3 |
| CHEM 313, 314, 315, Organic Chemistry I, II, and Lab..... | 8 |
| BCHE 341, Survey of Biochemistry..... | 3 |
| EPWS 314, Plant Physiology..... | 3 |
| EPWS 434, Insect Taxonomy, or EPWS 451, Special Topics or Immature Insects..... | 3 |
| EPWS 462, Parasitology..... | 3 |
| EPWS 481, Nematology..... | 3 |
| EPWS 491, Insect Physiology..... | 3 |
| EPWS 492, Diagnosing Plant Disorders..... | 3 |
| MATH 115, Intermediate Algebra or above..... | 3 |
| MATH 142G, Calculus for Biological and Management Sciences I*..... | 3 |
| PHYS 110G, Introduction to Physics or above..... | 4 |

OPTION: Pest Management

The Pest Management option prepares you for careers such as agricultural consulting, chemical sales, insect, weed and disease management, research technicians, inspectors, and extension agents. You can also go on to graduate programs in many applied biology/pest management programs.

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|---|---|
| AGRO 471, Plant Mineral Nutrition..... | 3 |
| CHEM 211, Organic Chemistry..... | 4 |
| EPWS 314, Plant Physiology..... | 3 |
| EPWS 434, Insect Taxonomy, or EPWS 451, Special Topics or Immature Insects..... | 3 |
| EPWS 452, Pesticide Toxicology..... | 3 |
| EPWS 455, Advanced Insect Pest Management, or EPWS 456, Biological Control..... | 3 |
| EPWS 481, Plant Nematology, or EPWS 462, Parasitology..... | 3 |
| EPWS 492, Diagnosing Plant Disorders..... | 3 |
| MATH 115, Intermediate Algebra or above..... | 3 |
| MATH 142G, Calculus for Biological and Management Sciences I*..... | 3 |
| PHYS 110G, Introduction to Physics or above..... | 4 |
| SOIL 312, Soil Management and Fertility..... | 4 |

MINORS

Courses marked with † are required for the minor.

MINOR: Pest Management (18 credits)

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|---|-----|
| EPWS 100, Introduction to Pest Management..... | 3 |
| EPWS 100L, Introduction to Pest Management Lab..... | 1 |
| †EPWS 303, Economic Entomology..... | 4 |
| †EPWS 310, Plant Pathology..... | 4 |
| †EPWS 311, Weed Science..... | 4 |
| EPWS 434, Insect Taxonomy..... | 3 |
| Upper-division EPWS course(s)..... | 3-6 |

MINOR: Entomology (18 credits)

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|---|-----|
| EPWS 100, Introduction to Pest Management..... | 3 |
| EPWS 100L, Introduction to Pest Management Lab..... | 1 |
| †EPWS 303, Economic Entomology..... | 4 |
| EPWS 434, Insect Taxonomy..... | 3 |
| EPWS 451, Special Topics..... | 3-9 |
| EPWS 455, Advanced Insect Pest Management..... | 3 |
| EPWS 456, Biological Control..... | 3 |
| EPWS 462, Parasitology..... | 3 |
| EPWS 491, Insect Physiology..... | 3 |

MINOR: Plant Pathology (18 credits)

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|---|-----|
| BIOL 311, General Microbiology..... | 3 |
| BIOL 311L, General Microbiology Lab..... | 1 |
| EPWS 100, Introduction to Pest Management..... | 3 |
| EPWS 100L, Introduction to Pest Management Lab..... | 1 |
| †EPWS 310, Plant Pathology..... | 4 |
| EPWS 314, Plant Physiology..... | 3 |
| EPWS 449, Special Problems in Plant Pathology..... | 1-3 |
| †EPWS 472, Mycology..... | 3 |
| †EPWS 481, Plant Nematology..... | 3 |
| EPWS 492, Diagnosing Plant Disorders..... | 3 |

MINOR: Weed Science (18 credits)

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| BIOL 312, Plant Taxonomy..... | 4 |
| BIOL 470, Plant Community Ecology..... | 3 |
| EPWS 100, Introduction to Pest Management..... | 3 |
| EPWS 100L, Introduction to Pest Management Lab..... | 1 |
| †EPWS 311, Weed Science..... | 4 |
| †EPWS 314, Plant Physiology..... | 3 |
| †EPWS 449, Special Problems in Weed Science..... | 1-3 |
| EPWS 452, Applied Pesticide Toxicology..... | 3 |

FAMILY and CONSUMER SCIENCES

Professor Ann Vail, department head

Professors Bock, Cummings, Del Campo, McKee, Vail; Associate Professors Devall, Eastman, Smitley; Assistant Professors Krishnan, Montanez

(505) 646-3936

DEGREE: Bachelor of Science in Family and Consumer Sciences

MAJOR: Clothing, Textiles, and Fashion Merchandising

MAJOR: Family and Child Science

OPTION: Family Science

OPTION: Child Science

MAJOR: Family and Consumer Sciences Education

MAJOR: Human Nutrition and Food Science

OPTION: Dietetics

OPTION: Food Science and Technology

OPTION: Community Nutrition

OPTION: Nutrition and Fitness

OPTION: Prehealth with Emphasis in Nutrition

Courses and curricula in the department are designed to educate you as an individual and as a citizen in a changing society. They also develop a scientific attitude and the ability to conduct research directed toward solutions of problems affecting the quality of life.