

General education requirement (English).....	3
MATH (General Education).....	3
<b>Junior year</b>	
AXED 415 or 430, Youth Program Development and Management, or Teaching Adults in Nonformal Settings .....	3
PHYS 110G, The Great Ideas of Physics.....	4
General education requirement (Human Thought and Behavior).....	3
General education requirement (Social Analysis).....	3
General education requirement (second WWW course).....	3
Agricultural economics electives.....	3
Agriculture, lower and upper division.....	9-10
Electives .....	6
<b>Senior year</b>	
AXED 421 or 444, Curriculum and Instruction: The Problem-Solving Approach in Vocational/Technical Education, or Planning and Methods in Nonformal Education.....	3
Agricultural mechanics, upper division.....	3
Agricultural economics electives.....	6
Agriculture, upper division .....	12
Electives sufficient to bring total credits to 128	

**Veterinary Medicine**  
(Preprofessional Training Only, Nondegree)

The Doctor of Veterinary Medicine (D.V.M.) degree is a professional degree that is not offered by any college or university in New Mexico; however, you may complete at New Mexico State University the preparatory program required for admittance to the professional colleges of veterinary medicine.

The D.V.M. degree normally requires four years of training in a professional college subsequent to completion of a preveterinary program that requires at least three years of college-level instruction. In most instances a baccalaureate degree is a distinct advantage to the applicant.

Curriculum requirements are determined by the particular school or college of veterinary medicine. The Department of Animal and Range Sciences maintains current requirements for Colorado State University, Washington State, Oregon State, Texas A&M. You should check with an adviser for specific course requirements. As a student from New Mexico, you may be eligible for financial assistance under the program of the Western Interstate Commission for Higher Education (WICHE). See the section on WICHE in the "General Information" chapter under "Student Services" for more information.

## AGRICULTURAL and EXTENSION EDUCATION

**Professor Thomas J. Dormody, department head**  
**Professors** Gleason, Hamilton, Holley, SeEVERS, VanLeeuwen;  
**Associate Professor** Rosencrans; **Assistant Professors** Castillo,  
Chamberlin, Hodnett  
(505) 646-4511

**DEGREE: Bachelor of Science in Agriculture**  
**MAJOR: Agricultural and Extension Education**  
**OPTION: Agricultural Education Teaching**  
**OPTION: Extension and Nonformal Education**  
**OPTION: Agricultural Communications**  
**OPTION: Advanced Technology Education**  
**MINOR: Agricultural and Extension Education**

The department offers a broad-based curriculum in agricultural, technology, and extension education with options for students interested in preparing for the many careers as professional educators in agriculture, technology, and related disciplines. A flexible curriculum allows you to develop individualized programs if you wish to prepare for a career as an agricultural or technology instructor, extension professional, media specialist, and agency and industry educational professional in domestic and/or international settings.

The department offers a minor in agricultural and extension education, which may be earned by completion of 18 credits in the department. The minor may include 9 credits of upper-division courses with a minimum of two courses at the 400 level.

**GENERAL REQUIREMENTS**

You must meet the general education and college requirements for the Bachelor of Science degree. You must establish a cumulative grade-point average of not less than 2.5 before you are admitted into the student teaching, extension field experience, or internship program. If you wish to teach in a public school, you must take/pass the New Mexico Assessment of Teacher Basic Skills before student teaching (AXED 447). And should take/pass the New Mexico Assessment of Secondary Level of the Teacher Competency before graduation. You need a minimum of 48 hours in technical agriculture for the secondary teaching certificate program in agriculture and are required to take 54 credit hours of upper-division courses (300+). In addition to the general education and technical subject matter requirements, you must complete all of the professional education courses in the option selected.

You may select technical courses required for completion of the major from the following areas: animal and range sciences; agricultural mechanics; agricultural economics; agronomy and soil sciences, horticultural science, entomology, plant pathology, and weed science; fishery and wildlife sciences; and engineering. Selected courses for the major's four options are:

**OPTION: Agricultural Education Teaching**

AXED 100, Introduction to Agricultural, Extension, and Technology Education .....	3
AXED 201G, Effective Leadership and Communication in Agricultural Organizations .....	3
AXED 230, Early Field-Based Experience.....	1
AXED 440, Methods in Career and Technical Laboratory Instruction.....	2
AXED 445, Planning and Methods in Career and Technical Education.....	3
AXED 446, Methods of Teaching Agricultural and Technology Education .....	6
AXED 447, Directed Teaching in Agricultural and Technology Education ..	6-10
RDG 414, Content Area Literacy .....	3
SPED 350, Survey of Programs for Exceptional Learners .....	3

**OPTION: Extension and Nonformal Education**

AXED 100, Introduction to Agricultural, Extension, and Technology Education .....	3
AXED 201G, Effective Leadership and Communication in Agricultural Organizations .....	3
AXED 230, Early Field-Based Experience.....	1
AXED 360, Agricultural Communications .....	3
AXED 415, Youth Program Development and Management.....	3
AXED 444, Planning and Methods in Nonformal Education .....	3
AXED 446, Methods of Teaching Agricultural and Technology Education .....	6
AXED 448, Directed Teaching in Extension Education .....	4-10

**OPTION: Agricultural Communications**

AXED 100, Introduction to Agricultural, Extension, and Technology Education .....	3
AXED 201G, Effective Leadership and Communication in Agricultural Organizations.....	3
AXED 230, Early Field-Based Experience.....	1
AXED 360, Agricultural Communications .....	3
AXED 444, Planning and Methods in Nonformal Education .....	3
AXED 449, Internship in Agricultural or Technology Education .....	4-10
AXED 490, Independent Study in Agricultural Communications .....	3
JOUR 105G, Introduction to Mass Communications.....	3
JOUR 110, Writing for the Mass Media .....	3
JOUR 210, Writing for the Print Media.....	3
JOUR 313, Radio Reporting .....	3
JOUR 319, Photojournalism I .....	3
JOUR 374, Principles of Public Relations .....	3

**OPTION: Advanced Technology Education**

AXED 100, Introduction to Agricultural, Extension, and Technology Education .....	3
AXED 201G, Effective Leadership and Communication in Agricultural Organizations.....	3
AXED 440, Methods in Career and Technical Laboratory Instruction.....	2

AXED 445, Planning and Methods in Career and Technical Education.....3  
 AXED 446, Methods of Teaching Agricultural and Technology Education.....6  
 AXED 447, Directed Teaching in Agricultural or Technology Education.....6-10  
 EDUC 315, Multicultural Education .....3  
 E T 317, Manufacturing Technology .....3  
 E T 320, Applications Software for Engineering Technologists.....3  
 E T 340/341, AC and DC Circuits and Lab.....5  
 E T 342, Digital Electronics I .....3  
 E T 357, Introduction to Security Technology.....3  
 E T 365, Building Utilities .....3  
 E T 479, Developing and Managing Educational Networks.....3  
 E T 480, Design and Problem Solving in Engineering and Technology.....3  
 RDG 414, Content Area Literacy .....3  
 SPED 350, Survey of Programs for Exceptional Learners.....3

**MINOR: Agricultural and Extension Education**

The department offers a minor in agricultural and extension education, which may be earned by completion of 18 credits in the department. The minor must include 9 credits of upper-division courses with a minimum of two courses at the 400 level.

**Accreditation**

The Department of Agricultural and Extension Education is accredited by the National Council for the Accreditation of Teacher Education.

## AGRICULTURAL ECONOMICS and AGRICULTURAL BUSINESS

**Professor Octavio A. Ramirez, department head**

*Professors* Catlett, Clary, Diemer, Falk, Fowler, Gorman, Libbin, Skaggs, Torell, Ward; *Assistant Professors* Hadjigeorgalis, Hurd, Lillywhite; *College Associate Professor* Bullock, Crawford; *College Assistant Professor* Hawkes; *Adjunct Associate Professor* Dewitt; *Adjunct Assistant Professor* Alvarez (505) 646-3215

**DEGREE: Bachelor of Science in Agriculture**

**MAJOR: Agricultural Economics and Agricultural Business**

**AREAS OF CONCENTRATION:**

- Farm Business Management
- Ranch Business Management
- Marketing and Sales
- Business Management
- Finance
- Computer Applications and Data Management
- Agricultural Communications
- Natural Resources Management
- Agricultural Chemical Sales
- Agricultural Records and Financial Controls
- International Agricultural Business
- International Development
- Environmental Economics
- Pre-Law
- MS-Prep

**COLLEGE REQUIREMENTS**

College required constants are listed under the heading "College of Agriculture and Home Economics." Specific courses meeting these and the university general education requirements are included below in departmental requirements. A total of 128 credits are required for graduation. At least 54 credits must be at the 300+ level. You will develop schedules for specific semesters with the help of your academic adviser.

**GENERAL AND DEPARTMENTAL REQUIREMENTS**

**Verbal and Written**  
 ENGL 111G, Rhetoric and Composition.....4  
 ENGL 203G, 211G, 218G, 311G, or 318G .....3

COMM 253G or 265G or AXED 201G .....3

**Quantitative**

MATH 115, Intermediate Algebra .....3  
 MATH 142G, Calculus for the Biological and Management Sciences I .....3  
 E ST 311G, Statistical Applications .....3

**Computer**

AG E 250G, Life with Microcomputers .....3  
 AG E 450G, Advanced Microcomputer Applications in Agriculture.....3

**General Education**

*General education courses are designated by a G suffix in the list of general education courses in the "General Information" chapter.*

General education science with lab.....4  
 Historical Perspectives .....3  
 Human Thought/Behavior .....3  
 Literature or Fine Arts.....3  
 Viewing a Wider World.....6

**General Business**

ACCT 251, Management Accounting .....3  
 ACCT 252, Financial Accounting.....3  
 MKTG 300+ course.....3  
 MGT 309, Human Relations in Business or MGT 332, Human Resources Management .....3  
 FIN 341, Financial Analysis and Markets .....3  
 BLAW 317, Business Law I, or BLAW 316, Legal Environment of Business...3

**Economic Theory**

ECON 251G, Principles of Macroeconomics.....3  
 ECON 252G, Principles of Microeconomics.....3  
 ECON 371, Intermediate Microeconomic Theory.....3  
 ECON 372, Intermediate Macroeconomic Theory.....3

**Applied Economics/Business**

AG E 100, Introductory Agricultural Economics and Business.....3  
 AG E 236, Agribusiness Management Principles .....3  
 AG E 305/MKTG 305, Marketing and Pricing Agricultural Products.....3  
 AG E 337G/ECON 337G, Natural Resource Economics or AG E 384G/ECON 384G, Water Resource Economics .....3  
 AG E 400, Seminar .....1  
 AG E 425, Agribusiness Financial Management.....3  
 AG E 445G, Agricultural Policy .....3  
 AG E 385, Applied Production Economics .....3  
 AG E 499, Senior Project or AG E 456, Agribusiness Management.....3

In addition to the department and general requirements listed above, you may also select 15 hours from one of the fifteen available areas of concentration. The specific class requirements for each option are on file in the department and are available either through general advising and/or by request.

## AGRONOMY and HORTICULTURE

**Professor Paul W. Bosland, interim department head**

**Professor John G. Mexal, assistant department head**

*Professors* Bosland, Daugherty, Guldan, Harrington, Lindemann, Mexal, Monger, O'Connell, Sammis, Sengupta-Gopalan; *Associate Professors* Cramer, Flynn, Picchioni, Ray, St. Hilaire, Ulery; *Assistant Professors* Bottoms, Goss, O'Neil, Silva, Zhang (505) 646-3405; (505) 646-6041 (fax); (866) 884-7231 (toll free number)

**DEGREE: Bachelor of Science in Agriculture**

**MAJOR: Agronomy**

- OPTION: Crop Consulting
- OPTION: Plant Genetics
- OPTION: General Agronomy