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# AGRICULTURE

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Smith Hall, Room  
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Fax: - -  
[agri@andrews.edu](mailto:agri@andrews.edu)  
[www.andrews.edu/agriculture/](http://www.andrews.edu/agriculture/)

Faculty  
 Thomas N. Chittick, Chair  
 Stanley Beikmann  
 Katherine Koudele

Academic Programs	Credits
BS: Agriculture BS: Animal Science Emphasis Areas Pre-Veterinary Medicine Management Equine Science BS: Horticulture Emphasis Areas Landscape Design Landscape Management BT: Agriculture Emphasis Areas Crop Production Animal Husbandry Agribusiness BT: International Agriculture Development BT: Horticulture Emphasis Areas Horticulture Crop Production Landscape Design Landscape Management AT: Agriculture Emphasis Areas Crop Production Dairy Herd Management AT: Horticulture Emphasis Areas Landscape Design	Katherine K0(V)70(et)10(eriion)]TJ /Sf1.0ulturion





by a departmental faculty member. Students submit a report of their experience and must complete a minimum of 100 hours of work experience for each credit earned. Repeatable up to 10 credits.

AGRI ( )  
Research Seminar  
Research results or internship reports in agriculture and related fields; presentations given by students, faculty and visiting lecturers. Spring

AGRI Alt ( )  
Concepts of International Agriculture  
A study of the relative significance of the role of external institutions and agency, financial programs for agricultural development, human resource development and agricultural education as a means of fostering worldwide agricultural development to counter-balance the threat to global food security and to overcome food deficits.

AGRI Alt ( )  
International Agricultural Implementation  
The application of scientific agricultural principles of food production, utilizing cultural practices based on appropriate agricultural technologies that support a philosophy of sustainability for future generations.

AGRI ( - )  
International Internship in \_\_\_\_\_  
Supervised internship of on the job international work experience in agriculture/horticulture. Students submit a report of their experience to be evaluated by a departmental faculty member and must complete 100 hours of work experience for each credit earned. Repeatable up to 10 credits.

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ANSI S Alt ( )  
Issues in Animal Agriculture, Research and Medicine  
Study of the ethical issues that challenge animal researchers, producers, caretakers, and veterinarians to treat animals humanely yet effectively in society today. Spring

ANSI \$ Alt ( )  
Lactation Physiology  
Anatomy and physiology of the udder, milk secretion, disease prevention and treatment, milking management and milking systems. Weekly: lectures and lab. Recommended: BIOL . Spring

ANSI Alt ( )  
Animal Genetics  
Basic genetics principles, cytogenetics, immunogenetics, population genetics and quantitative genetics, biotechnology, gene mapping and the use of molecular tools to research inherited disorders using examples of veterinary medicine. Recommended: BIOL . Spring

ANSI \$ Alt ( )  
Animal Reproduction  
Anatomy and physiology of farm animal reproduction including the cellular and endocrine components as well as management aspects. Recommended: BIOL . Spring

ANSI \$ Alt ( )  
Physiology of Farm Animals  
Physiology of digestive, cardiovascular, pulmonary, excretory, nervous, and skeletomuscular systems in domesticated ruminants and monogastrics. Weekly: lectures and a -hour lab. Recommended: BIOL . Fall

ANSI Alt ( )  
Equine Exercise Anatomy & Physiology  
The anatomy and physiology of the limbs (shoulder and pelvic girdles, legs, feet) as well as the respiratory tract, all of which are vital to a horse's usefulness. Spring

ANSI Alt ( )  
Equine Health and Disease  
Topics covered in depth are: the causes of infectious (e.g. tetanus, strangles) and non-infectious (e.g. laminitis, colic, injury), diseases of horses, their prJ 0 -1r10(t )1(<0the )1(ca)20(uses )1(on89 )10(tir)10(dles)101\_0 1 Tf PrieDd [(nl )1(t)1o1(lau)10(g).874089 0 Td [(Fa)-45

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Land Surveying

Course introduces the principles of land surveying such as measurements of distance, elevation and angles, instrumentation and mapping, and GIS. Weekly: lecture and hours of labFall

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