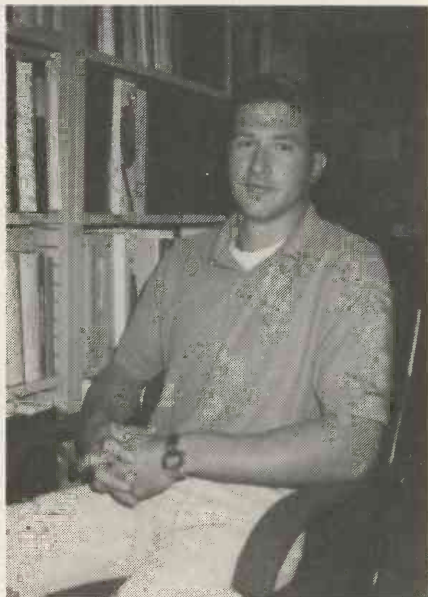




ANIMAL SYSTEMS



J. Elmer

"The College of Agriculture offered the major I wanted – veterinary science. I'm interested in large animals, and working on the campus farm has given me that exposure."

Glenn Buckley,
Veterinary Science major
Career Interest: Veterinarian



Rik Van Antwerpen

"What amazes me about microbiology is that something so small can have such a big effect on the environment or on people and animals. I want to go into environmental microbiology. I like the requirements in this major, and I like the personal attention I receive in the College of Agriculture."

Casey McKeon
Senior, Microbiology

Veterinary Science Department

This department focuses on the improvement of both animal and public health through instruction, research, service and extension activities. Curriculum offerings include B.S. degrees in **Veterinary Science** and **Microbiology**, and graduate degrees (M.S. and Ph.D.) in **Pathobiology**. Students participate in formal classroom/laboratory courses, and independent research opportunities and seminars, as well as short courses and continuing education courses to prepare for careers in the biomedical sciences.

Domestic and wild animal health, and public health issues resulting from human/animal interactions are stressed. The department is particularly interested in diseases and conditions shared by domestic and wild animals and humans regionally, nationally and internationally. To assist Arizona communities in identifying regional animal disease problems, the department maintains the Veterinary Diagnostic Laboratory off campus in Tucson.

Microbiology is the study of living organisms and infectious agents, most of which can only be seen with a microscope. Microbiologists explore, investigate, and discover how microbes exist and affect our lives. To conduct their studies, microbiologists combine an array of techniques from different disciplines including genetics, chemistry, biochemistry, physiology, physics, ecology, and pathology. Their findings are critical to research in health, agricultural and environmental sciences.

To address the diverse interdisciplinary interests and needs of today's microbiologists, a unique undergraduate program in Microbiology has been created at The University of Arizona. The strength of this program lies in its blending of a broad science core into a framework of traditional microbiology coursework and laboratory experiences in a variety of focus areas. This approach allows the individual student to tailor a unique educational program based on specific interests and career goals. Administration of the microbiology major was transferred to the Department of Veterinary Sciences in May, 1994.

The graduate program in **Pathobiology** offers an integrative approach to the basic animal and comparative health sciences with areas of study in immunology/pathology of disease; microbial pathogenesis; and epidemiology, diagnosis and prevention of disease. Program emphasis includes interdisciplinary studies which will prepare graduates to become independent investigators and/or educators in a variety of settings, including academia, government and private industry.