A Joint Degree in "International Infectious Disease Management & Biosecurity", The first in North America.

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North Dakota State University



Higher Education Challenge Grant

A Joint Degree in International Infectious Disease Management & Biosecurity

Dept. Veterinary & Microbiological Sciences

College of Agriculture, Food Systems, and Natural Resources

North Dakota State University (NDSU)



&

College of Veterinary Medicine, Animal Resources & Biosecurity Makerere University, KAMPALA-UGANDA (Mak)





Global perspectives in agriculture

- are critical to the safety of our agricultural resources and require an international solution, yet very few opportunities exist for their study in the US.
- Graduates of this program will have a better understanding of international agricultural issues, making them much more viable in today's competitive job market.
- This is a unique program within the NDUS & the US, and the first joint degree in North America.

Study abroad – summer course 2007, one month, 3 credits

International Animal Production, Disease Surveillance & Public Health

- Undergraduate students
- Graduate students
- Professional students/ internship
- 3 credits, in state tuition for all students
- Distance & Continuing Education (DCE)
- Non credit option/internship

Course Objectives

- To expose course participants to tropical animal resources management & production systems (livestock & wild life) & food safety
- To acquire relevant skills in public health & Disease Surveillance especially in relation to international health (transboundary diseases) and zoonoses
- To foster interaction between university students from developed and developing nations - cultural exposure

Course Participants-2007 (4NDSU +5 MAK)



2008 summer class 13 US & 6 MAK students



2008 summer class- 6 NDSU students with NDSU President then (J. Chapman)



NDSU President then & Delegation Administrative support was high



A Joint Degree in International Infectious Disease Management & Biosecurity

Objectives

 Develop <u>a joint Master of Science</u> (MS) degree, Graduate Certificate (GC) & Undergraduate Certificate in *International Infectious Disease* Management & Biosecurity (IDM).

Program Approval

- Approved 2011 at NDSU & Mak (MS & GC)
- 1st Cohort of 8 MS students (enrolled summer 2011-12)

The 1st cohort of MS-IDM students



Program Requirements

- The program requires completion of 30 credits with 13 credits of core courses offered jointly by both institutions.
- Students can enroll through NDSU or Mak; however, they have to spend at least one semester at the other institution and complete two practicum projects of 2 credits each, one at each institution.
- Experiential learning with cross pollination of teaching methods from both institutions; it is problem-based learning with a service-learning component.

Core courses – Taught jointly

Course	Credits	Institution	Instructor
MICR 674:* Epidemiology	3	NDSU	M. Khaitsa
MICR 721: Prevention and Control of Zoonoses & Transboundary Infectious Diseases (ZTID)	3	MAK	F. Ejobi
MICR 722: International Health Systems, Policy and Biosecurity	2	NDSU	M. Khaitsa
MICR 723: International Animal Production, Disease Surveillance & Public Health (Cornerstone course)	3	NDSU & MAK	M. Khaitsa & F. Ejobi
MPH 7204:* Social & Behavioral Determinants of Health	2	MAK	J. Kiguli

Service Learning Example -1st cohort

- June 3-29, 2012, 5 of 8 students participated in a community service project in Arizona to control Rocky Mountain spotted fever.
 - US Centers for Disease Control & Prevention (CDC)
 - CDC Foundation
 - San Carlos Department of Health
 - Virginia Tech Regional Vet College
 - NDSU





CDC - Environmental Health





- Spraying lawn
- Tick collar 8 months
- Education of dog owners





USAID USAID –HED Grant



- Africa-US Higher Education Initiative for development (11 partnerships)
- Capacity building (institutional & Human)
 in Integrated Management of
 Transboundary Animal Diseases and
 Zoonoses
- To fund 10 MS IDM students from Uganda (1st cohort-4; 2nd cohort-6)

Challenges

- Joint admission
- Tuition
- Transfer of credits between institutions
- Registration & Records keeping
- Internships

Acknowledgements









