

AGRICULTURAL BIOSECURITY (AGBIO)

AGBIO 520: Agricultural Biosecurity: Protecting a Key Infrastructure

3 Credits

Course will explore intentional and unintentional threats to the agriculture- food system, history and current approaches for safeguarding this key infrastructure.

Prerequisite: permission of the instructor

AGBIO 521: Food Defense: Prevention Planning for Food Processors

3 Credits

Course prepares current and aspiring professionals to learn, recognize and apply measures to prevent intentional contamination of the food supply. FD SC (AGBIO) 521 Food Defense: Prevention Planning for Food Processors (3) This course will not only provide participants with knowledge of the domestic and international food industry, but it also provides tools for food industry and homeland security professionals to develop food defense programs to protect the food supply from terroristic activities leading to intentional contamination. The course will introduce and apply: examples where intentional contamination has been used in the food industry; biological, chemical and physical hazards of primary concern in the food industry; methods for detecting hazards in the food supply; systems employed to monitor foodborne illness in the general public; management practices employed in food production to deal with recalls and other crises; vulnerabilities and mitigation procedures unique to food production; as well as agencies, resources, and tools needed to protect, prepare, and respond to intentional contamination incidents. This course is a required course for the certificate program in Agricultural Biosecurity as well as the Master of Professional Studies in Homeland Security/Agricultural Biosecurity Option. These principles also will be incorporated into a food defense plan, recall plan, and emergency preparedness plan for an assigned food establishment.

Cross-listed with: FDSC 521

AGBIO 594: Agricultural Biosecurity and Food Defense Capstone Experience

3 Credits

Culminating experience in the iMPS-HLS for the online Agricultural Biosecurity and Food Defense option.

Prerequisite: AGBIO520 , AGBIO521 , AGBIO801 , and AGBIO802

AGBIO 801: Veterinary Infectious Disease Diagnostic and Surveillance Systems

3 Credits

This course provides knowledge of diagnostic and surveillance systems used to detect infectious diseases and protect against animal agricultural biological attack.

Prerequisite: AGBIO 520

Cross-listed with: PATH 801

AGBIO 802: Plant Protection: Responding to Introductions of Threatening Pests and Pathogens

3 Credits

This course provides knowledge of plant biosecurity, plant disease, regulations, and technologies using case study examples.

Cross-listed with: PPATH 802