



Emphasis in Food Safety and Biosecurity

The curriculum prepares graduates to recognize, evaluate, and control food-borne agents and toxins. Courses emphasize the multidisciplinary nature of food biosecurity and defense research, education and training to the vitality of our communities.

“Core” requirements (16 credit hours)

- [STAT 702](#) – Statistical Methods for Social Sciences (3 hours) OR [STAT 703](#) – Statistical Methods for Natural Scientists (3 hours)
- [DMP 806](#) – Environmental Toxicology (2 hours)
- [DMP 708](#) – Principles and Methods of Epidemiology (2 hours)
- [DMP 854](#) – Disease Epidemiology (3 hours)
- [HMD 720](#) – Administration of Health Care Organizations (3 hours)
- [KIN 818](#) – Social and Behavioral Basis of Public Health (3 hours)

Required Food Safety courses (13 credit hours)

- [FDSCI 501](#) – Food Chemistry (3 hours)
- [FDSCI 607](#) – Food Microbiology (4 hours)
- [FDSCI 690](#) – Principles of HACCP (2 hours)
- [FDSCI 713](#) – Rapid Methods and Automation in Microbiology (2 hours)
- [FDSCI 730](#) – Multidisc Overview Food Safety and Security (2 hours)

Electives (7 credit hours)

In addition to the above, students must select their remaining courses from the following or other graduate courses as approved by the major professor, supervisory committee and the MPH Program director.

- [FDSCI 695](#) – Quality Assurance of Food Products (3 hours)
- [FDSCI 727](#) – Chemical Methods of Food Analysis (2 hours)
- [FDSCI 728](#) – Physical Methods of Food Analysis (2 hours)
- [FDSCI 791](#) – Advanced Application of HACCP Principles (2 hours)
- [FDSCI 815](#) – Advanced Food Chemistry (3 hours)
- [FDSCI 915](#) – Food Toxicology (2 hours)
- [STAT 704](#) – Analysis of Variance (2 hours)
- [STAT 705](#) – Regression and Correlation Analysis (2 hours)
- [STAT 710](#) – Sample Survey Methods (2 hours)
- [STAT 716](#) – Nonparametric Statistics (2 hours)
- [STAT 720](#) – Design of Experiments (3 hours)
- [STAT 730](#) – Multivariate Statistical Methods (3 hours)
- [STAT 735](#) – Statistics in Health Related Industries (2 hrs)

Capstone/culminating experience (6 credit hours)

Total hours required for MPH Degree (42 credit hours)