

HEALTH SECURITY, MS

Overview

The MS in Health Security program prepares future leaders for the activities, both proactive and reactive, necessary to strengthen the Nation's health security and to minimize the danger and impact of acute public health crises, including epidemics/pandemics. Students will learn to apply scientific principles to prevent, detect, protect against, mitigate, and respond to health security challenges. Students will further gain the skills needed to implement evidence-based and population-based interventions to protect communities, particularly vulnerable populations, from natural hazards and accidental or intentional health threats. This MS offering is intended for both pre-professionals and mid-career individuals. Although not required, students typically have a background in a life or physical science. This program is offered via on campus and online modalities.

Program Competencies

1. Analyze the human, social, or political risks of major health security threats
2. Translate existing data or science for effective operational response strategies to health security threats, especially in vulnerable populations
3. Implement effective program management and leadership skills into health security operations
4. Examine the capacity of public health systems to effectively respond to health threats
5. Communicate health security threats or response actions to leadership or the public

Requirements

The MS degree in Health Security requires a total of 45 credits that includes:

Course ID	Title	Credits
SPHTM Foundational Requirements		9
SPHL 6020	Foundations in Public Health ¹	3
SPHL 6050	Biostatistics for Public Health	3
SPHL 6060	Epidemiology for Public Health	3
Program Course Requirements		27
DRLS 6050	Leadership	3
ENHS 6080	Fundamentals of Environmental Health Sciences	3
ENHS 6970	Exposure Assessment	3
ENHS 6910	Health Security Threats	3
ENHS 6950	Psychosocial Aspects of Disaster	3
ENHS 6430	Disaster & Emergency Communication	3
ENHS 7130	Outbreak and Disaster Response Readiness	3
SPHL 7230	Project Management for Public Health	3
TRMD 7650	One Health Approaches to Disease	3
Climate and Health Core - Choose one of the following		3
ENHS 6450	Climate Change and Public Health	3
ENHS 7610	Applied Data Science for Climate and Health	3
Selective Courses - Choose two of the following ²		6
DRLS 6010	Human and Social Factors	3
DRLS 6040	Environment and Infrastructure	3
ENHS 6560	Environmental Health Microbiology	3
ENHS 6600	Principles of Toxicology	3
EPID 6750	Outbreak Epidemiology	3
ESSC 6002	Critical Infrastructure Protection	3
IHSD 6331	Public Health and Nutrition in Complex Emergencies	3
SPHL 6110	Introduction to GIS for Public Health	3
Additional Requirements		
ENHS 9980	Master's Thesis Research	0
Elective Courses ²		9
TOTAL CREDIT HOURS		45

- ¹ Tulane BSPH students are waived from this course. Students entering the program with an undergraduate degree from an accredited program can also replace this course with another elective of interest. If the student waives any course, a copy of the waiver must be on file in the Office of Academic Affairs.
- ² Students will be required to take a minimum of 6 credits of selectives from the following pre-approved list of Tulane courses or another with prior approval from the Program Director.

MS in Health Security Model Course Schedule

Year 1		Credit Hours
Fall		
SPHL 6020	Foundations in Public Health	3
SPHL 6050	Biostatistics for Public Health	3
ENHS 6080	Fundamentals of Environmental Health Sciences	3
ENHS 6910	Health Security Threats	3
Credit Hours		12
Spring		
SPHL 6060	Epidemiology for Public Health	3
ENHS 6970	Exposure Assessment	3
ENHS 6430	Disaster & Emergency Communication	3
ENHS 6950	Psychosocial Aspects of Disaster	3
Credit Hours		12
Summer Session		
SPHL 7230	Project Management for Public Health	3
Credit Hours		3
Year 2		
Fall		
ENHS 6450 or ENHS 7610	Climate Change and Public Health or Applied Data Science for Climate and Health	3
DRLS 6050	Leadership	3
Elective		3
Elective		3
Credit Hours		12
Spring		
ENHS 7130	Outbreak and Disaster Response Readiness	3
TRMD 7650	One Health Approaches to Disease	3
ENHS 9980	Master's Thesis Research	0
Credit Hours		6
Total Credit Hours		45

Program String and Field of Study: PHMS_GR, HESC

Contact

To learn more about the department, visit <https://sph.tulane.edu/enhs/home> (<https://sph.tulane.edu/enhs/home/>).