

# PUBLIC HEALTH DISASTER SCIENCE, POLICY AND PRACTICE (ADVANCED CERTIFICATE)

NYSED: 40338 HEGIS: 1214.00 CIP: 26.0102

## Program Description

The Advanced Certificate in Public Health Disaster Science, Policy and Practice offers online and in-person options for students in good-standing who are interested in a multi-disciplinary approach to the scholarship, policies, and practices associated with preventing, preparing for, responding to, and recovering from public health disasters and complex emergencies. The Certificate requires a minimum of five courses and 15 credits.

The Advanced Certificate in Public Health Disaster Science, Policy and Practice is open to all professionals in public health or related disciplines as a stand-alone certificate. Current NYU students can complete the certificate in conjunction with the GPH Master of Public Health (MPH).

## Skills You Can Acquire

- Develop leadership and management decision-making skills for public health and healthcare incident management
- Develop communication and coordination skills for engaging the public and optimizing a public health emergency preparedness and response system
- Refine disaster research skills for evaluating emergency systems, assessing the impacts of disasters on vulnerable populations, and designing interventions that enhance preparedness, response, and recovery
- Apply systems thinking and critically analyze the design of response and recovery systems, using agent-based modeling techniques
- Access and build a network of public health disaster practitioners and scholars
- Connect with quality professional mentorship opportunities with committed and highly experienced certificate faculty

## You Will Learn

- The organizational aspects of public health preparedness
- A practical understanding of threats, risks, and hazards
- The complex systems that constitute public health emergency response systems
- Methodological challenges to evaluating individual and system readiness, and to researching the factors associated with community, institutional, and individual resilience
- The evolving standards of professional public health practice for preparedness and response

## Who Should Enroll?

This certificate provides two paths for students: one for public health practice, and the other for the evolving field of disaster science. The program will be of particular interest to students seeking to enhance their training by gaining additional analytic tools for public health policy

making, disaster research, and emergency management in public health and healthcare settings; to mid-career professionals in public health and related fields such as nursing, medicine, or public administration; and to students seeking preparation for further study in doctoral programs of public health, social and behavioral sciences, or public administration.

Students enrolled in the NYU MPH program in Community Health Science and Practice, Environmental Public Health Sciences, Epidemiology, Global Health, Public Health Nutrition, Public Health Policy & Management, Social and Behavioral Sciences and Sustainable Development Goals are eligible for this certificate.

## Admissions

All applicants are required to submit the following:

- Application form: Applicants not currently enrolled in a GPH Master's program must apply through SOPHAS Express (<https://sophasexpress.liaisoncas.com/applicant-ux/#/login>). Current GPH Master's students should apply through this application form (<https://docs.google.com/forms/d/e/1FAIpQLSdvi45RpLDEqY5ABoZ0vzoFn6kT6sJU7pUu3o7xGjfMHYkRpA/viewform/?gxids=7628>).
- Official transcripts from each institution attended (or an evaluation of your credentials if you graduated from a foreign institution)
- One letters of recommendation
- Personal statement
- Resume/CV
- English language proficiency exam (TOEFL iBT or IELTS Academic) results for all applicants whose native language is not English and who did not receive the equivalent of a US bachelor's degree at an institution where English is the primary language of instruction.
  - International students requiring a visa to attend NYU must complete the IELTS exam in person at an authorized test center. If you are required to take the exam but will not need it for visa purposes you may choose to take it online or at a test center.

## Program Requirements

Course	Title	Credits
<b>Required Courses</b>		
GPH-GU 5270	Management of Public Health Disasters <sup>1</sup>	3
GPH-GU 5210	Global Health Disaster Preparedness & Response <sup>1</sup>	3
GPH-GU 5170	Introduction to Public Health <sup>1,2</sup>	0
<b>Electives</b>		
Select three of the following:		9
GPH-GU 3152	Advanced Agent-Based Modeling	
GPH-GU 2265	Climate Change and Global Public Health	
GPH-GU 3260	Complex Systems, Disasters, and the Social Ecology of Health	
GPH-GU 2242	Crisis and Emergency Risk Communication	
GPH-GU 5150	Emergency Preparedness for Healthcare Organizations <sup>1</sup>	
GPH-GU 2440	Emerging Diseases and Bioterrorism	
GPH-GU 2211	Environmental Justice and Global Health	
GPH-GU 2324	Infectious Disease Epidemiology	
GPH-GU 2152	Introduction to Agent-Based Modeling	
GPH-GU 2274	Outbreak Epidemiology: Re-emerging and Emerging Infectious Diseases <sup>3</sup>	

GPH-GU 9345 Public Health Emergency Preparedness and Response: A Global Perspective (previously held in Israel, Cuba, and Puerto Rico)

**Total Credits** **15**

<sup>1</sup> 5000-level courses are online.

<sup>2</sup> This course may be waived for public health students and professionals.

<sup>3</sup> GPH-GU 2106/5106 Epidemiology, or it's equivalent, is a prerequisite for this course.

## Sample Plan of Study

This is a **sample** course sequence. Courses may be taken in any order and other DSPP certificate electives may be taken in place of those listed below.

Course	Title	Credits
<b>1st Semester/Term</b>		
GPH-GU 5270	Management of Public Health Disasters <sup>1</sup>	3
GPH-GU 5170	Introduction to Public Health <sup>1, 2</sup>	0
GPH-GU 2265	Climate Change and Global Public Health	3
<b>Credits</b>		<b>6</b>
<b>2nd Semester/Term</b>		
GPH-GU 5210	Global Health Disaster Preparedness & Response <sup>1</sup>	3
GPH-GU 2242	Crisis and Emergency Risk Communication	3
GPH-GU 2440	Emerging Diseases and Bioterrorism	3
<b>Credits</b>		<b>9</b>
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> 5000-level courses are online.

<sup>2</sup> May be waived for public health students and professionals.

## Learning Outcomes

Upon completion of the Public Health Disaster Science, Policy and Practice Advanced Certificate, graduates will have the skills and competencies to:

1. Develop leadership and management decision-making skills for public health and healthcare incident management.
2. Develop communication and coordination skills for engaging the public and optimizing a public health emergency preparedness and response system.
3. Refine disaster research skills for evaluating emergency systems, assessing the impacts of disasters on vulnerable populations, and designing interventions that enhance preparedness, response, and recovery.
4. Use systems thinking to design or critically analyze response and recovery systems, including agent-based modeling techniques.

## Policies

### Program Policies

#### Double-Counting of Credits

Upon completion of the MPH and the certificate, students should have a total of 52 credits. The certificate is 15 credits, but only 3 certificate courses (9 credits) may be double-counted with the MPH (46 credits, which includes 9 double-counted credits, plus 6 additional credits).

### Program Extensions

International Students who pursue the certificate with the MPH are not allowed to receive a Program Extension as the certificate is not required to complete the MPH program. Therefore, they must complete the certificate by the time they graduate from their MPH.

### NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).

### School of Global Public Health Policies

A list of related academic policies can be found on the School of Global Public Health academic policies page (<https://bulletins.nyu.edu/graduate/global-public-health/academic-policies/>).