



Public Health Security programs

PLuS ALLIANCE

ARIZONA STATE
UNIVERSITY
PHOENIX

KING'S COLLEGE
LONDON
LONDON

UNSW
AUSTRALIA
SYDNEY

The Public Health Security programs offered through the PLuS Alliance present an innovative new approach to critically evaluating risks and responses to emergencies and biosecurity threats to human health in the modern age. Three programs are available from PLuS Alliance partners UNSW Sydney and Arizona State University, USA:

- Master of Public Health – Public Security Stream (MPH-PS): UNSW
- Master of Infectious Diseases Intelligence (MIDI): UNSW
- Master of Emergency Management and Homeland Security – Biosecurity Concentration: ASU

The programs have been designed to cater for those interested in disasters, emergency response, public health and biosecurity. Whichever program you choose, you will have coursework from both UNSW and ASU in your degree program. This means you will have a unique, global experience with

students from both universities in the virtual classroom. We use interactive case studies, webinars and other tools to teach topics such as risk analysis; risk mitigation; prevention and response; rapid intelligence and analysis methods; legal and regulatory issues; governance and other aspects of response. We use a combination of novel teaching methods, including a movie, *Pandemic*, which has been custom made for the Bioterrorism and Health Intelligence course, available in all of the three programs. Our expert international speakers come from a range of agencies including law enforcement, defence and public health agencies worldwide, and provide unique cross-sectoral insights into public health emergency response.

Which program is right for me?

It depends what focus you want. The Master of Emergency Management and Homeland Security (Biosecurity concentration) has the majority of content in emergency management

and security, with a biosecurity focus. The MPH-PS has a broad focus on public health and disasters, whereas the MIDI is focused on advanced skills in infectious diseases and biosecurity. In these latter two programs the majority of the content is health related, with a focus on disaster and emergency management. We cater for all needs and include pre-course modules for non-health participants to prepare you with the required background in infectious diseases, public health and epidemiology, whatever program you choose.

Flexible delivery

For busy professionals with diverse needs, we provide you the flexibility to do these programs fully online, face-to-face or in combination. We use state of the art learning technology to deliver a virtual classroom experience fully online to suit your busy career. Students can choose to do the programs full time or part-time, and whichever mode suits their needs.



UNSW
SYDNEY

ASU Arizona State
University



Master of Public Health – Public Security

Ongoing global political instability and conflict perpetuates the risk of terrorism, bioterrorism, chemical, radiological and nuclear threats. In addition, natural disasters and forced displacement of people pose additional public health challenges which require an understanding of health aspects of emergency response and disaster recovery.

This degree presents a range of courses to equip graduates with advanced public health skills as well as skills in health aspects of disasters and terrorism. Public health practitioners, clinicians, emergency services, police and the military need to be aware of these risks and have the public health knowledge and skills to understand and respond effectively to them.

Who should do this course?

This stream is ideal for first-responders, analysts or policy makers from public health, clinical medicine or nursing, paramedics, emergency management, law enforcement, military or other relevant backgrounds.

No matter what your disciplinary background, if you are interested in health aspects of disaster management and emergency response, this program is for you.

The stream is for students who want a strong grounding in public health combined with a specialisation in the health aspects of disasters, bioterrorism, emergency management and crises including epidemics, which is reflected in their Testamur.

Students do the core courses for the Master of Public Health stream and then can choose from an array of electives in public health, or do international security and terrorism electives available from the Faculty of Arts and Social Sciences to strengthen their grounding in the political context of disasters. We also offer electives in Homeland Security and terrorism that can be taken fully online at Arizona State University.

This course is for professionals involved in any aspect of public security preparedness and response, who wish to be intellectually challenged to think outside the square, and to gain new critical skills which can be applied in their professional practice.

Flexible delivery

For busy professionals with diverse needs, we provide you the flexibility to do this program in face-to-face mode, online or in blended mode to suit your lifestyle.

Why study at SPHCM?

- The largest public health program in New South Wales
- The oldest and most established health management program in Australia
- Targeted specialisations with area of specialisation reflected on testamur
- Specialisations aligned with flagship areas of research strength
- Dual degree and Extension options
- Summer school (including the option for standalone professional up-skilling)
- Flexible modes of study
- Multi-national and multi-cultural student environment
- Learning environment enriched by student experience
- Alumni occupy senior positions in health systems around the world
- Wide range of research and evaluation courses and projects



Master of Infectious Diseases Intelligence

The Master of Infectious Diseases Intelligence (MIDI) equips graduates with advanced skills in public health aspects of infectious diseases intelligence, response, prevention and mitigation.

Infectious diseases such as measles, malaria, tuberculosis and HIV/AIDS continue to contribute significantly to the global burden of disease and remain leading causes of death across the world. Emerging and re-emerging infections such as pandemic influenza, Ebola, dengue, Zika virus, chikungunya and MERS Corona Virus (CoV) pose an additional public health challenge and require coordinated and systematic disease control responses.

Who should do this course?

This stream is ideal for health professionals who want to work in control of infectious diseases, whether in the government or non-government sector. The MIDI would be an advantage to professionals seeking a career in public health control of infectious diseases, health emergencies, outbreaks, infectious diseases risk assessment, vaccination and other infectious diseases control programs.

Ecosystems, climate change, global travel, rapid urbanisation, intensive agricultural and animal husbandry practices all act to alter the pathogen-host interaction and continually changing infectious diseases epidemiology. In addition, hospital based infections and antibiotic resistance are an increasing concern. A multi-disciplinary, public health approach is needed to understand the requirements for infectious diseases control at a population level. Infectious diseases intelligence refers to the understanding of epidemic patterns, critical analysis and application of this knowledge to disease control.

The School of Public Health and Community Medicine has world-renowned expertise in infectious diseases, and this expertise is showcased in the program.

This program builds on principles of epidemiology and public health toward infectious diseases intelligence in the era of new and emerging infectious disease threats in a rapidly changing global landscape. For those with an interest in biological disasters and emergency management, the MIDI can be tailored toward this interest, with a range of electives from Arizona State University.

Flexible delivery

The program is designed to be delivered either face-to-face, fully online or a combination of modes to suit your needs. The fully online mode gives students access to course resources and learning activities via our state-of-the-art online learning management system. This means students can participate no matter what their circumstances, where they are located, or what their schedule is.

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Images courtesy of Flickr: US Army, Firefighters decontaminate & triage victim, Doctors test Swine flu at airport; iStock: riot police; UNSW Sydney & ASU

Master of Arts in Emergency Management and Homeland Security Degree – Biosecurity Concentration

The Master of Arts in Emergency Management and Homeland Security degree program at Arizona State University promotes stronger and more resilient communities by helping prepare students to engage in the effective management of hazards and crises. Our program assists the professional development of current or future practitioners as the next generation of leaders in areas related to emergency and disaster management, hazards management, public safety and homeland security. Our program's students serve communities across the United States in either public, private or nonprofit sector organizations. Through collaboration among faculty, students and the practitioner community, we offer a leading-edge program that addresses the complex array of 21st century challenges which require thoughtful and informed leadership.

The emergency management and homeland security degree program offers value through an exciting,

innovative curriculum and its quality of instruction. The program has four concentration areas designed to meet the specific career goals and professional development needs of our students. The four concentration areas are emergency management, homeland security, community resilience and biosecurity and threat management. Students are not required, however, to declare a specific concentration and all students enjoy flexibility in selecting a degree program suited to their professional development needs and interests.

Our program also offers opportunities for international education. Through ASU's membership in the PLS Alliance, students have access to courses and the opportunity to work with faculty at UNSW Sydney.

Overall, the mission of the Emergency Management and Homeland Security program is to advance the professional education and development of our students who serve communities across the United States and abroad, to assist those students in making contributions to the safety, health and welfare for their home communities, to foster innovative thinking about and understanding of hazards, emergency and disaster management issues, and to continually engage with the practitioner community in support of their efforts in promoting safety, security and resilience. The vision for the program is that it will be defined by its innovative, cross-disciplinary curriculum, by its accessibility to a wide variety of students with diverse backgrounds, and by its commitment to a focus on the professional development needs of students in the program.

The Biosecurity and Threat Management concentration area within the degree program provides motivated students with knowledge, skills and abilities to assume



leadership and key management positions with public sector agencies (or related organizations) with operations and responsibilities in public health, homeland security, risk management, and several closely related fields. Biosecurity refers generally to policies and organizational practices related to protecting humans and animals from hazardous biological agents, whether they appear naturally or through malicious intent (e.g. bioterrorism).

Fully online delivery

The program is designed to be delivered fully online. Fully online mode gives students access to course resources and learning activities via our state-of-the-art online learning management system, meaning you can participate no matter where you are, or what your schedule. The UNSW subjects such as Bioterrorism and Health Intelligence can be done face-to-face in Sydney or fully online.

Who should do this course?

This stream is ideal for emergency management, defence, law enforcement or other first responder professionals who need to understand infectious diseases threats and their control. Biosecurity and threat management is an important and emerging area related to the intersection of public security and safety, public health, and risk management. This concentration area is designed to meet the career and professional development needs for those students interested in those fields. In addition to being relevant to public health agencies and general public safety agencies, the concentration is also well-suited for those interested in private sector organizations, such as positions managing emergency preparedness issues for private hospitals or general threat management services with a wide range of different private sector firms.

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