

## **Basic Environmental Health Program Winter 2019 Overview**

**UAlbany School of Public Health  
1 University Place  
Rensselaer NY 12144  
Room 110A and Massry Center**

The Basic Environmental Health Program (BEHP) is an introductory training program designed to equip entry-level environmental health personnel with the basic knowledge, skills and abilities needed to develop competency in their initial and future duties. The BEHP is recognized as the health training course approved by the State Health Department pursuant to Part 11 of the State Sanitary Code for individuals employed in Public Health Sanitarian and Public Health Technician titles in New York State. Experienced environmental and public health staff, faculty, and industry experts provide a rich overview of major environmental and public health components and programs conducted in New York, together with instruction on the related specialized science and technology. Designed to prepare staff for additional specialized training and mentored experience, the program is coordinated for the New York State Department of Health through an agreement with the University at Albany School of Public Health. The program, typically presented over a period of 2-3 months, consists of in- class sessions, online webinars and webcasts, and, online self-paced courses. There are no registration or tuition fees. To register for this program, visit [www.nylearnsph.com](http://www.nylearnsph.com).

Participation in the BEHP is limited based on the number of seats available and priority is given to individuals in the Public Health Technician and Public Health Sanitarian titles, as per the requirements of Part 11 of the State Sanitary Code (10 NYCRR). The BEHP and its modules are designed to be completed in its entirety within a designated timeframe and are not designed to be attended as a refresher course or for maintaining Professional Engineer (PE) continuing education credits, which are offered to assist new local health department environmental health staff with meeting the PE continuing education requirements in their new position.

**Students expecting to receive a certificate of completion for the entire program must complete all in- person courses, webinars, and online courses as outlined in this document. For more information, contact the University at Albany Center for Public Health Continuing Education (CPHCE) at 518-402-0330 or [coned@albany.edu](mailto:coned@albany.edu).**

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**In-person courses and webinars:** Attend all in-class sessions and online webinars; complete course evaluations and pass corresponding in-class/webinar/webcast exams with a score of 70% or higher. Evaluation and exams are available online through the NYS Learning Management System ([www.nylearnsph.com](http://www.nylearnsph.com)) – After logging in, click on “My Courses”. On the Current Courses tab, a link to the evaluation and exam will be available under the Activities column.

Course Title	Date/Time	Format	Topics/Objectives	Pre-requisites	Notes
<b>Introduction to Public Health in NYS (UASPH-PH 101)</b>	January 15 9:00–4:00pm	1 day; In-class	<ul style="list-style-type: none"> <li>• A brief history of public health including the Great Sanitary Awakening</li> <li>• Overview of modern public health and determinants of health</li> <li>• Definition of public health and introduction to 10 essential services</li> <li>• Organizational structure of Public and Environmental Health at the federal, state and local levels</li> <li>• Legal aspects of public health; exercise to discuss public health vs. personal freedoms</li> <li>• Introduction to ethics; interactive exercises to highlight conflicts public and environmental health professionals may face</li> </ul>	Completion of online course, Orientation to Public Health (NYNJ-201)	1.0 hour of continuing education (CE) credit will be awarded for professional engineers (PE) that complete the course.
<b>Public Health Preparedness (UASPH-PH 102)</b>	January 28 9:30–11:30 am	Webinar	<ul style="list-style-type: none"> <li>• Describe what emergency preparedness means in terms of public health.</li> <li>• Explain basic emergency preparedness functions at the local, state, and federal levels and understand the role of the local health department (LHD) in emergency response.</li> <li>• Identify public health threats that can happen in NYS that could have an environmental impact.</li> <li>• Identify specific environmental health issues from these events.</li> <li>• Identify environmental health issues to staff a Disaster Recovery Center.</li> <li>• Recall available resources and where to find them</li> </ul>	Completion of two online courses, FEMA IS-100.C FEMA IS-700.B	
<b>Public Health Microbiology (UASPH-PH 103A)</b>	January 16 9:00–12:00pm	1/2 day; In-class	<ul style="list-style-type: none"> <li>• Growth in the laboratory and in the environment (factors which affect growth, biofilm)</li> <li>• Chemical agents and other disinfectants</li> <li>• Examples of microbial pathogens in food or water</li> <li>• Detection methods, their limitations and difficulties</li> <li>• Indicator organisms, their properties and usage</li> </ul>	Completion of online course, Microbiology: An Introduction (UACPHP-200)	

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<b>Communicable Disease Control (UASPH-PH 103B)</b>	January 22 9:30–11:30am	Webinar	<ul style="list-style-type: none"> <li>Principles of Epidemiology</li> <li>Public Health Surveillance and Reporting</li> <li>Outbreak investigation steps, including a case study</li> </ul>	Completion of online course, Field Epidemiology (UACPHP-206)	
<b>Zoonoses/ Vectors (UASPH-PH 103C/D)</b>	January 16 1:00–4:00pm	1/2 day; In-class	<ul style="list-style-type: none"> <li>Epidemiology of zoonotic diseases</li> <li>Rabies and other zoonoses associated with environmental health (e.g., animals in public settings)</li> <li>Biology and behavior of insects that affect public health</li> <li>Control of Arthropods and the diseases they transmit</li> </ul>	Completion of online course, Climate Change and Zoonoses Overview (UASPH-CPHP-2016)	
<b>Indoor Air (UASPH-EH 104A)</b>	January 17 9:00-12:00pm	1/2 day; In-class	<ul style="list-style-type: none"> <li>Describe the characterization and measurement of indoor environmental quality</li> <li>Discuss building ventilation systems, and their relationship to indoor air quality</li> <li>Recognize the soil vapor intrusion exposure pathway, chemicals of concern and investigation strategies and mitigative measures</li> <li>List possible responses to mold complaints caused by building moisture problems</li> <li>Identify impacts of oil spills on building occupants and application to the Oil Spill Relocation Network</li> </ul>		
<b>Meth Labs (UASPH- EH 104A.1)</b>	February 1 9:30-11:30 am	Webinar	<ul style="list-style-type: none"> <li>Introduction to Methamphetamine Labs</li> <li>Why Meth Labs are a Public Health Issue</li> <li>Awareness and Recognition of Meth Labs</li> <li>Clandestine Meth Lab Response</li> <li>Federal and State Legislation and Cleanup Guidance</li> <li>Response and Role of State and Local Agencies</li> </ul>		
<b>Mold and Flooding (UASPH- EH 104A.2)</b>	February 11 9:30-11:30 am	Webinar	<ul style="list-style-type: none"> <li>Mold Introduction &amp; General Information</li> <li>Flood Preparedness</li> <li>Flood Response and Cleanup</li> <li>Reoccupying Flooded Buildings</li> </ul>		

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<b>Radiation Health (UASPH-EH 104C)</b>	March 22 9:30–11:30 am	Webinar	<ul style="list-style-type: none"> <li>Describe the functions of the Bureau of Environmental Radiation Protection, and other state, local and federal radiation protection programs</li> <li>Describe the basic properties of ionizing radiation</li> <li>Describe fundamental radiation protection standards</li> <li>List common uses of radioactive materials/radiation equipment and associated hazards</li> <li>Describe radiological response responsibilities and capability</li> <li>Discuss the significance of naturally occurring radioactive material, including radon and its occurrence in New York State</li> </ul>		An <i>online optional</i> primer/background course is available: <i>CDC-RAD Radiation Basics Made Simple</i> [See pg. 8 for more detail]
<b>Contaminated Sites (UASPH-EH 104D)</b>	February 25 9:30–11:30 am	Webinar	<ul style="list-style-type: none"> <li>Identify the elements of an exposure pathway at a contaminated site</li> <li>Describe the steps in a site investigation</li> <li>Perform basic environmental sample collection procedures</li> <li>Discuss the basic principles of risk communication</li> </ul>		
<b>Basic Concepts of Pest Management (UASPH-EH 105A)</b>	January 25 9:30 –11:30am	Webinar	<ul style="list-style-type: none"> <li>Biology, behavior and population dynamics of commensal rodents</li> <li>Injuries and illness associated with commensal rodents</li> <li>Overview of Nuisance insects</li> <li>Integrated pest management, theory to application</li> </ul>		
<b>Testimony &amp; Enforcement in NYS (UASPH-EH 106)</b>	January 17 1:00 – 4:00pm	1/2-day; In-class	<ul style="list-style-type: none"> <li>Introduction to public health laws in New York State</li> <li>Conducting public health investigations</li> <li>Laws relating to enforcement and environmental health</li> <li>Guidelines for testifying</li> </ul>		

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<b>Bureau of Community Environmental Health and Food Protection Programs (UASPH-EH 107)</b>	March 5-7 9:00 – 4:00pm	3-days; In- class	<p>Overview of the Bureau of Community Environmental Health and Food Protection programs encompassing common scientific foundations and public health goals and the administrative functions and field services designed to achieve them. Program areas include:</p> <ul style="list-style-type: none"> <li>• Recreational Health: Children’s Camps, Swimming Pools, Bathing Beaches, Recreational Aquatic Spray Grounds, Campgrounds, Agricultural Fairgrounds, Mass Gatherings</li> <li>• Migrant Farm Worker Housing</li> <li>• Temporary Residences</li> <li>• Mobile Home Parks</li> <li>• Food Protection: Food Service Establishments</li> </ul>		
<b>Indoor Tanning and Body Art Programs EH 107A.1</b>	February 15 9:30 -11:30am	Webinar	<ul style="list-style-type: none"> <li>• Laws Pertaining to Indoor Tanning and Body Art</li> <li>• Indoor Tanning and Body Art</li> <li>• Equipment</li> <li>• Public Health Risks</li> <li>• Infection Control Practices</li> <li>• Program Components</li> </ul>		
<b>Tobacco Enforcement EH 107A.2</b>	March 1 9:30–11:30 am	Webinar	<ul style="list-style-type: none"> <li>• Health Effects and Economic Impact of Smoking</li> <li>• NYS Tobacco Control Program</li> <li>• Adolescent Tobacco Use Prevention Act</li> <li>• NYS Clean Indoor Air Act</li> </ul>		
<b>Healthy Neighborhood Program EH 107A.3</b>	February 13 9:30–11:30 am	Webinar	<ul style="list-style-type: none"> <li>• Housing Hygiene</li> <li>• Primary Prevention of Childhood Lead Poisoning</li> <li>• Environmental Response to Elevated Blood Levels</li> <li>• Healthy Neighborhoods</li> </ul>		

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<b>Harmful Blue-green Algal Blooms (UASPH-EH 108)</b>	March 18 9:30 – 11:30	Webinar	<ul style="list-style-type: none"> <li>• Background; ecology and health risks</li> <li>• Recreational Water</li> <li>• Drinking Water</li> </ul>		
<b>Concepts of Water Supply Protection (UASPH-EH 109)</b>	February 5-7 9:00 – 4:00pm	3 days; in-class	<p>An overview of New York’s drinking water supply program, with an emphasis on a Multiple Barrier Approach that employs technical, technological, and managerial barriers to ensure drinking water quantity and quality and to prevent contamination from source to tap.</p> <ul style="list-style-type: none"> <li>• Recognize the water supply program mission and its major elements.</li> <li>• Describe the concepts of hydrology, surface &amp; ground water characteristics and well construction essentials.</li> <li>• List contaminants of public health concern and approaches to limiting them in water supplies.</li> <li>• Identify common water treatment methods (with an emphasis on the practical application of disinfection methods).</li> <li>• Discuss typical causes and responses to water emergency conditions – such as boil water notices.</li> <li>• Provide an overview of public water system regulations, and guidance for local health departments.</li> <li>• Describe residential water supply, onsite wastewater treatment system and realty subdivision concepts, regulations and other policy.</li> </ul>		PE continuing education credits will be available for this course. <b>The number of credits available will be determined at a later date.</b>
<b>Protection Against Legionella (Cooling Towers) EH 109A.1</b>	March 15 9:30- 11:30 am	Webinar	<ul style="list-style-type: none"> <li>• Background and rationale</li> <li>• General overview of final regulation</li> <li>• Part 4 regulatory requirements</li> <li>• General overview of LHD roles</li> </ul>		
<b>Confined Space Awareness Training (DOH-CS 100)</b>	March 11 9:30 -11:30 am	Webinar	<ul style="list-style-type: none"> <li>• Assist workers in recognizing a confined space and associated hazards.</li> <li>• Understand atmospheric hazards in confined spaces as well as equipment and analytical methods to quantify/qualify and characterize hazards.</li> <li>• Review occupational health and safety requirements for confined space entry.</li> <li>• Emphasize expectations of public health professionals if confined space entry is encountered during routine work</li> </ul>		

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**Online Courses:** Complete the following on-line courses. Links to these online courses are provided through the NYS Learning Management System ([www.nylearnsph.com](http://www.nylearnsph.com)). After logging in, click on “My Courses”. On the Current Courses tab, click on the “launch the course” button available just below the course name.

**Note:** Some of these online courses are prerequisite(s) to in-person courses and should be completed **prior** to attending the course. The remaining online courses should be completed by the end of the program and are required to receive a certificate.

Online Courses	Pre-requisites	Notes
Orientation to Public Health (NYNJ-201)	Prerequisite to UASPH-PH 101: Introduction to Public Health in NYS	
Microbiology: An Introduction (UACPHP-200)	Prerequisite to UASPH-PH 103A: Public Health Microbiology	
Field Epidemiology (UACPHP-206)	Prerequisite to UASPH-PH 103B: Communicable Disease Control	
Agency for Toxic Substances and Disease Registry Public Health Assessment Overview I & II (UASPH - EH 104B)		Completion of the following is required for the BEHP: Public Health Assessment Overview 1: Mission and Community <u>AND</u> Overview 2: Exposure Pathways and
UASPH-CPHP-2016 Climate Change and Zoonoses Overview	Prerequisite to UASPH-PH 103C/D: Zoonoses/Vectors	
Exploring Cross-Cultural Communication (NYNJ-042)		
Practicing Cross-Cultural Communication (NYNJ-068 Elective)		<b>Enroll in and complete any <u>one</u> of the four modules listed</b> <ul style="list-style-type: none"> <li>• NYNJ-068a: Hepatitis A Outbreak (<i>or</i>)</li> <li>• NYNJ-068b: Bamboo Dragon (<i>or</i>)</li> <li>• NYNJ-068c: Community Health Workers (<i>or</i>)</li> <li>• NYNJ-068d: Flood</li> </ul>

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Online Courses	Pre-requisites	Notes
Introduction to the Incident Command System (FEMA IS 100.C)*	Prerequisite to PH 102: Public Health Preparedness	
National Incident Management System (NIMS), An Introduction (FEMA IS 700.B)*		

Optional Online Course	Pre-requisites	Notes
CDC-RAD Radiation Basics Made Simple	None	<p>This <b><i>optional</i></b> CDC course is being offered to BEHP participants who would like background radiation information prior to the delivery of EH 104C: Radiation Health.</p> <p>To view Radiation Basics Made Simple without registering for continuing education, follow this link:  <a href="#">CDC- RAD: Radiation Basics Made Simple.</a></p>

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