

OCCUPATIONAL AND ENVIRONMENTAL MEDICINE RESIDENCY

Program Overview and Mission

The Johns Hopkins Occupational and Environmental Medicine Residency (<https://publichealth.jhu.edu/academics/occupational-and-environmental-medicine-residency/>) is a two-year training program that prepares physicians for careers in any of the major sectors of occupational and environmental medicine and develops thoughtful, inclusive leaders with expertise in both clinical and population health practice.

Our graduates manage and improve the health of populations by:

1. Developing and implementing programs to mitigate occupational or environmental exposure.
2. Delivering clinical care to individuals exposed to chemical, physical, biological, ergonomic, and/or psychological hazards in a variety of occupational and environmental settings.
3. Educating workers, employers, and other stakeholders about occupational health hazards and mitigation measures.
4. Applying new technologies, research findings, and management techniques to improve the health of working populations and minimize work disability.
5. Promoting healthy, equitable, inclusive, and diverse workplaces that support total worker health.
6. Advocating for fairness and inclusivity in developing and implementing environmental laws, regulations, and policies.

By completing an MPH degree and practicum rotations, trainees learn how to prevent and manage injury, illness, and disability, while promoting the health and productivity of workers, their families, and communities. Completion of the two-year program leads to eligibility for the certifying examination of the American Board of Preventive Medicine (<https://www.theabpm.org/>). The OEMR is accredited by the Accreditation Council for Graduate Medical Education (<https://acgme.org/>) (ACGME) and is one of the key programs that make up the Occupational Safety and Health Education and Research Center (<https://publichealth.jhu.edu/johns-hopkins-education-and-research-center-for-occupational-safety-and-health/>) (ERC) at the Johns Hopkins Bloomberg School of Public Health.

Program Requirements

The Occupational and Environmental Medicine Residency is a two-year program. Residents are required to:

- Meet all MPH requirements (<https://e-catalogue.jhu.edu/public-health/departments/master-public-health/>), including course requirements for the MPH degree and residency.
- Meet all Accreditation Council for Graduate Medical Education (<https://acgme.org/>) (ACGME) Occupational and Environmental Medicine Requirements, including participation in practicum and clinical rotations, departmental activities, conferences, and research.

Course Requirements

Example Schedule with Required Courses

Courses listed for each term are required by either the residency or the MPH program. **The example course schedule below has worked for residents previously, but residents should review the MPH program manual closely as MPH requirements or course offerings may change from year to year.** Residents must register for 16 credits in all terms. You do not have to register for resident seminar for credit if you would like to take additional courses. However, you should make sure your courses do not interfere with resident seminar or your clinic. Any concerns should be communicated to Program Director and Deputy Program Director.

MPH Requirements*

Eighty (80) credit hours are needed for the degree, including core, residency requirements, and electives. Only 20 credits total may be taken in "special studies" courses. During academic year 2022-2023, the program planning for health behavior change course was offered in person Tuesdays and Thursdays afternoons and required students to do assignments graded during the class, and this posed a conflict with clinic days traditionally assigned for first year residents on Tuesdays or Thursdays. Please inform Dr. Rivera if there are scheduling conflicts with the course this academic year and alternate **course** suggestions will be made.

Course	Title	Credits
First Year		
Summer Term		
PH.300.615	The Tools of Public Health Practice	1
PH.380.755	Population Dynamics and Public Health	2
PH.300.610	Public Health Policy	4
PH.306.601	Introduction to Bioethics in Public Health Practice and Research	1
PH.550.867	Introduction to MPH Studies	
PH.550.860	Academic & Research Ethics at BSPH	
PH.340.601	Principles of Epidemiology	5
PH.180.601	Environmental Health	5
PH.188.840	Special Studies and Research Environmental Health & Engineering	1
Credits		19
First Term		
PH.188.680	Fundamentals of Occupational Health (online)	3
PH.140.611	Statistical Reasoning in Public Health I (Do online but sit in on class as desired)	3
PH.410.620	Program Planning for Health Behavior Change	3
PH.552.609	Psychological and Behavioral Factors That Affect A Population's Health (online)	0.5
PH.552.625	Building Collaborations Across Sectors to Improve Population Health (online)	0.5
PH.552.608	Biologic, Genetic and Infectious Bases of Human Disease (online)	0.5
PH.552.601	Foundational Principles of Public Health (online)	0.5
PH.188.840	Special Studies and Research Environmental Health & Engineering ¹	1

Electives or additional Special Studies credits (p. 2)	1
Credits	13
Second Term	
PH.187.610 Public Health Toxicology (online)	4
PH.182.621 Introduction to Ergonomics ²	4
PH.140.612 Statistical Reasoning in Public Health II (online)	3
PH.182.625 Principles of Occupational and Environmental Hygiene	4
PH.380.604 Life Course Perspectives on Health (online)	4
PH.188.840 Special Studies and Research Environmental Health & Engineering (Resident Seminar) ¹	1
PH.552.626 Systems Thinking: Concepts and Methods ³	0.5
*INTERPROFESSIONAL EDUCATIONAL EVENT (required, but not formal course)	
Credits	20.5
Third Term	
PH.312.600 Managing Health Services Organizations (online)	4
PH.552.621 Basic Resources Management for Public or PH.552.622 Health or Creating, Implementing and Monitoring Budgets for Projects and Programs	1
PH.188.686 Clinical Environmental and Occupational Toxicology	3
PH.317.600 Introduction to the Risk Sciences and Public Policy (online)	4
PH.552.624 Applications of Negotiation and Mediation for Public Health Professionals	0.5
PH.552.623 Principles of Negotiation and Mediation for Public Health Professionals (online)	0.5
PH.552.603 The Role of Qualitative Methods and Science in Describing and Assessing a Population's Health (online)	0.5
PH.552.610 The Social Determinants of Health (online)	0.5
PH.552.611 Globalization and Population Health (online)	0.5
PH.260.720 Communications Primer for the Public Health Sciences (online assigned to 1st, 2nd, or 3rd term according to last name)	1
PH.188.840 Special Studies and Research Environmental Health & Engineering ¹	1
Credits	16.5
Fourth Term	
PH.317.610 Risk Policy, Management and Communication (online)	3
PH.188.681 Onsite Evaluation of Workplace and Occupational Health Programs (worksites evaluation course)	5
PH.340.722 Epidemiologic Inference in Public Health II (online)	4
PH.340.680 Environmental and Occupational Epidemiology (if it is offered online)	4

PH.188.840 Special Studies and Research Environmental Health & Engineering (Resident Seminar) ¹	2
PH.305.615 Occupation Injury Prevention and Safety Policy and Practice	2
Credits	20
Total Credits	89

Second Year

Code	Title	Credits
PH.186.800	MPH Capstone: Environmental Health & Engineering (Summer term)	2
PH.550.870	SS/R: Occupational Medicine Residency-Practicum Year (16 credits per term)	16
PH.340.680	Environmental and Occupational Epidemiology (4th term)	4

Recommended Electives

Code	Title	Credits
PH.180.611	The Global Environment, Climate Change, and Public Health	4
PH.180.670	Introduction to Public Health Emergency Preparedness	3
PH.182.623	Occupational Health Management	3
PH.140.613 & PH.140.614	Data Analysis Workshop I and Data Analysis Workshop II	4
PH.305.623	Fundamentals of Clinical Preventive Medicine	3
PH.182.637	Noise and Other Physical Agents in the Environment	4
PH.182.617	Exposure Sciences for Health Risk Assessment	4
PH.180.615	Total Worker Health	3

* Residents should review the MPH program manual closely as requirements may change from year to year.

¹ If needed, residents can also get credit for resident seminar by signing up for 1-2 credits of EHE 188.840 to meet the 16 credit hour minimum requirement in any given term. However, some residents may choose not to sign up for resident seminar because either 1) they take additional electives instead or 2) they have a minimum of 16 credit hours with their other courses.

² Ergonomics course can be scheduled in first year if schedule allows, however many residents have taken it in second year.

³ In academic year 2022-2023, Systems Thinking was offered in second term and fourth terms, but not offered during third term.

Course location and modality is found on the BSPH website (<https://publichealth.jhu.edu/courses/>).

Program Policies

Prospective applicants can find additional information about the program on the Occupational and Environmental Medicine Residency (<https://publichealth.jhu.edu/academics/occupational-and-environmental-medicine-residency/>) page. For a full list of program policies, please visit the Occupational and Environmental Medicine Residency page (<https://publichealth.jhu.edu/academics/occupational-and-environmental-medicine-residency/>) where residents can find links to the Program Manual.