

## **WORK AND HEALTH TRAINEESHIP REQUIREMENTS**

The Work and Health Traineeship is a subset of the Advanced Practice Environmental and Occupational Health (APEOH) Graduate Certificate program. Trainees will graduate with an APEOH Graduate Certificate as well as specific training and coursework in Work Health and Safety.

The amount of time to complete the program will vary depending on the course plan, class schedules, and requirements of each trainee's home degree program. The requirements to complete the traineeship, which simultaneously fulfills the APEOH certificate requirements, are listed below.

### **NORTHWEST CENTER FOR OCCUPATIONAL HEALTH AND SAFETY ACTIVITIES**

Any trainees receiving program funding will also be required to participate in Northwest Center for Occupational Health and Safety (NWCOHS) interdisciplinary activities, as well as the NWCOHS Responsible Conduct of Research (RCR) training unless the trainees home degree program provides RCR training.

### **CAPSTONE PROJECT**

Trainees will complete either a clinical or research project or practice internship experience, which can be identified based on student interests after entering the program. The trainee and their faculty mentor will determine the learning plan, learning objectives, and deliverables for the capstone. Funded trainees will receive tuition for the quarter that they complete their capstone project.

### **REQUIRED COURSES**

#### **NSG 554 Population Health and the Environment (3 credits). Typically offered spring quarter.**

Introduces core concepts and principles related to the science and practice of environmental and occupational health. Examines historical cases and current issues to illustrate how environmental conditions contribute to injury and illness among human populations. Explores health professionals' roles in actions that protect and promote healthy environmental and workplace settings.

#### **ENV H 550 Occupational and Environmental Disease (3 credits). Typically offered autumn and spring quarters.**

A case-based introduction to occupational and environmental diseases, focusing on disease epidemiology, pathophysiology, diagnostic testing basics, and aspects of population management such as disease surveillance, policy development, and health protection programs. A four credit option offered to clinically-oriented students additionally covers diagnostic test interpretation, differential diagnosis, and clinical management.

#### **ENVH 564 Recognition of Health and Safety Problems in Industry (2 credits). Typically offered autumn quarter.**

Develops skills in occupational health and safety hazard recognition in a variety of important Northwest industries. Focuses on process understanding and hazard recognition skills during walk-through inspections of several local facilities, stressing a multidisciplinary approach.

**ADDITIONAL ELECTIVES** (*trainees must take at least 4 credits of additional electives*)

*Students with specific work and health interests may petition the program director to use an UW graduate-level course not on the list below as an elective, based on their individual background, and research or professional goals.*

**CM 598 Special Topics: Data-Driven Health and Safety for Construction (3 credits).**

This data-driven, health and safety research training capstone course aims to engage students in a miniature scale but holistic research-to-practice experience on the development, study and application of appropriate measurements as they serve as critical and potential construction health and safety hazard indicators. The NORA Construction Sector Strategic Goals from NIOSH is consulted to identify major construction hazards and introduce concepts, techniques, analysis and interpretation of measurements related to these hazards. Some of the major areas of study include introduction and case studies on the cycle of research to practice; sources and effects of presented major construction health and safety hazards; construction health and safety hazard measurements and indicators; engineering control or human factor related interventions; Total Worker Health; and discussions on future monitoring and evaluation implications.

**ENV H 453 Industrial Hygiene (3 credits). Typically offered autumn quarter.**

Introduction to the principles and scientific foundation of industrial hygiene. Examines the anticipation, recognition, evaluation, and control of workplace hazards to health and safety. Focuses on the first three functions, but includes some consideration of control methods. Prerequisite: BIOL 200; either CHEM 220, CHEM 224, or CHEM 238; either PHYS 115 or PHYS 122 or instructor permission.

**ENV H 460/560 Occupational Safety Management (3 credits).**

Explores industrial organization and methods of integrating safety and industrial hygiene programs with industrial operations. Investigates issues related to industrial safety and health such as responsibility for safety, dependency on safe practice, and hierarchy of prevention.

**ENV H 462/562 Technical Aspects of Occupational Safety (3 credits). Typically offered spring quarter.**

Reviews federal OSHA (Occupational Safety and Health Administration) and state WISHA (Washington Industrial Safety and Health Act) standards. Explores the impact of these regulations on industry, particularly construction. Upon completion of the course, students receive an OSHA 510 30-hour Construction Safety and Health certification.

**ENV H 597 Case Studies in Environmental and Occupational Health (1 credit). Typically offered autumn, winter and spring quarter.**

Discusses clinical cases, recent journal articles, and global environmental health scenarios relevant to the clinical practice of environmental and occupational health. Explores collaborative management of environmental and occupational health-related illnesses and navigation of complex environmental health scenarios through real-world cases and critical analysis of published literature.

**ENVIR 585 Climate Impacts on the Pacific Northwest (4 credits).**

Knowledge of past/future patterns of climate to improve Pacific Northwest resource management. Topics include the predictability of natural/human-caused climate changes; past societal reactions to climate impacts on water, fish, forest, and coastal resources; how climate and public policies interact to affect ecosystems and society.

**HSERV 581 Strategies of Health Promotion (4 credits).**

Assessment of health promotion planning, implementation, and evaluation strategies for their strengths, weaknesses, and effectiveness. Students critique strategies to modify behavioral factors that influence lifestyles of individuals, including decisions influencing their reciprocal relationship with environmental factors affecting the health of individuals, organizations, and communities. Prerequisite: HSERV 511.

**NSG 558 Programmatic Approach for Worker Health Protection and Promotion (3 credits).**

Focuses on advanced professional practice and leadership in the context of occupational health and safety programs. Considers assessment, development, implementation, and evaluation of programs and services that protect and promote the well-being of worker populations. Explores how research, policy, economic, and ethical perspectives determine approaches and interventions for worker health.