

# Program in Applied Public Health Sciences

## Spring 2019 Course Descriptions

Course #	Title	Location
<b>Monday</b>		
PUBH 5201-F40	Essentials of Social Inequality and Health Disparities	U3017A/B <sup>b</sup>
PUBH 5407-F40	Practicum in Public Health	Suite 2100, Large Conf. Room <sup>b</sup>
PUBH 5434-F40	Topics in Intermediate Biostatistics	Library CEC Classrooms 2 & 3 <sup>a</sup>
PUBH 5497-F42	Environmental Impacts on Children's Health	A1 <sup>a</sup>
PUBH 5497-F43	Public Health Interventions	U3017A/B <sup>b</sup>
<b>Tuesday</b>		
PUBH 5405-F40	Social & Behavioral Foundations of Public Health, Farmington	Patterson Auditorium <sup>a</sup>
PUBH 5405-001	Social & Behavioral Foundations of Public Health, Storrs	Rowe 320 <sup>d</sup>
PUBH 5436-F40	Intermediate Epidemiology	Suite 2100, Large Conf. Room <sup>b</sup>
PUBH 5462-F40	International Health	U3017A/B <sup>b</sup>
PUBH 5497-F40	Reproductive Ethics and Rights	U3017A/B <sup>b</sup>
<b>Wednesday</b>		
PUBH 5404-F40	Environmental Health, Farmington	Patterson Auditorium <sup>a</sup>
PUBH 5404-001	Environmental Health, Storrs	Rowe 320 <sup>d</sup>
PUBH 5468-F40	Occupational and Environmental Epidemiology	U3017A/B <sup>b</sup>
PUBH 5475-F40	Public Health and Policy in an Aging Society	ASB2 <sup>c</sup>
PUBH 5497-F41	Public Health Nutrition	U3017A/B <sup>b</sup>
<b>Thursday</b>		
PUBH 5409-F40	Introduction to Epidemiology & Biostatistics II, Farmington	Patterson Auditorium <sup>a</sup>
PUBH 5409-001	Introduction to Epidemiology & Biostatistics II, Storrs	Rowe 320 <sup>d</sup>
PUBH 5453-F40	Chronic Disease Control	U3017A/B <sup>b</sup>
PUBH 5463-F40	Comparative Health Systems	Suite 2100, Large Conf. Room <sup>b</sup>
PUBH 5497-F44	Transportation, Energy, Land Use and Public Health	U3017A/B <sup>b</sup>
<b>Friday</b>		
PUBH 5497-F45	Leadership Education in Neurodevelopmental and Related Disabilities (LEND) Seminar II	The Exchange, Suite 173, UCEDD Conf. Room <sup>e</sup>
<b>Variable Days</b>		
PUBH 5495	Independent Study in Public Health	
PUBH 5498-F40	Field Experience in Public Health System	
PUBH 5499-F40	Capstone Project in Public Health	
PUBH 6490-F40	Public Health Seminar	
GRAD 5950	Master's Thesis Research	
GRAD 5998-F40	Special Readings	
GRAD 5999-F40	Thesis Research	
<b>Online</b>		
PUBH 5479-F40	Alcohol and Drug Policy Research	
PUBH 5481-F40	Research Careers & the Responsible Conduct of Research in Alcohol & Addiction Science	
PUBH 5501-F40	Foundations of Public Health and Disability	
PUBH 5502-F40	Epidemiology of Disability	
PUBH 5504-F40	Public Health Interventions in Disability	

<sup>a</sup> UCONN Health Academic Building

<sup>b</sup> UCONN Health 195 Farmington Avenue

<sup>c</sup> UCONN Health Administrative Services Building (ASB)

<sup>d</sup> UCONN Storrs

<sup>e</sup> UCONN Health 270 Farmington Avenue (The Exchange)

## COURSE DESCRIPTIONS

### MONDAYS, 1/28/19 – 5/6/19

**PUBH 5201-F40 Essentials of Social Inequality and Health Disparities 3 credits**  
(17666) UCONN Health Farmington

This course raises insights into the origins and impact of social inequality in society. Students are introduced to (a) the extent of health disparities across our population, (b) how social inequality contributes to health disparities, and (c) why attention to social inequality is essential to effective personal and population health. A range of social determinants (race/racism, poverty, income inequality, education, environmental conditions, social capital, social cohesion, social mobility, safety/security, criminal justice system) are considered that may act as influences on health, either directly or as pathways for other determinants.

**Instructor:** David Gregorio, PhD, MS gregorio@uchc.edu  
**Time:** 2:00 – 5:00 PM  
**Location:** U3017A/B, 195 Farmington Ave.

**PUBH 5407-F40 Practicum in Public Health 3 credits**  
(17520) UCONN Health Farmington

This course satisfies program requirements pertaining to the Applied Practice Experience. This supervised, collaborative, experiential community learning course is a foundational requirement for 2<sup>nd</sup> year students. The Practicum demonstrates student's ability to synthesize didactic learning and public health practice field experiences with a real-world hands-on experience as a group. The Applied Practice Experience is an important aspect of the UCONN MPH Program's applied practice focus on preparing students with understanding, knowledge, experience, skills and values necessary to function successfully as public health practitioners. Together with the program's foundational course sequence and the culminating Integrative Learning Experience, students will accrue a portfolio of courses, grades, written reports, exams, preceptor evaluations, research and service projects that document their readiness to enter the field of public health practice.

**Permission number required from MPH Office.**

**Instructor:** Stacey Brown, PhD stbrown@uchc.edu  
**Time:** 5:30 – 8:30 PM  
**Room:** Suite 2100, Large Conference Room, 195 Farmington Ave.

**PUBH 5434-F40 Topics in Intermediate Biostatistics 3 credits**  
(17667) UCONN Health Farmington

An introduction to the interplay of experimental design and data analysis. Begins with a review of statistical estimation and testing. Topics include analysis of variance, linear regression, and power analysis. Applications are emphasized through the demonstration and use of statistical software. **Permission number required from instructor.**

**Instructor:** Joseph Burleson, PhD burleson@uchc.edu  
**Time:** 5:30 – 8:30 PM  
**Location:** Library CEC Classrooms 2 & 3

**PUBH 5497 F42 Environmental Impacts on Children's Health 3 credits**  
(17632) UCONN Health Farmington

Young children are uniquely vulnerable to the direct and indirect impacts of a harmful environment, leading to a number of acute and chronic diseases, including lead poisoning, asthma, leukemia, autism spectrum disorder, ADHD, obesity, and type 2 diabetes. The goals of this course are to: (a) understand underlying environmental causes and biological mechanisms that affect children's health during their pre- and post-natal developmental stages through adolescence, (b) provide a regional, national and global overview of children's environmental health issues from a public policy perspective, (c) determine various social and stress-related factors that cause chronic illnesses in young children and later in adult life, and (d) explore practical approaches and preventative measures that should be taken by health professionals, social planners and educators to address this worldwide problem.

**Instructor:** A. Karim Ahmed, PhD ahmed@ncseglobal.org  
**Time:** 5:30 – 8:30 PM  
**Location:** Classroom A1

**PUBH 5497-F43 Public Health Interventions 3 credits**  
(17633) UCONN Health Farmington

This course reviews methods involved in planning, implementing, and evaluating public health interventions with a focus on health behavior change and community-based participatory methods. The goal is to help students understand and apply epidemiological, theoretical, and health behavior change principles to address a broad spectrum of public health topics and health care system challenges. Students will review examples of successful and unsuccessful community-based or system-level health interventions and critique them on practical and theoretical grounds. This course provides students with an important evidence-based roadmap for analyzing public health needs, developing intervention ideas, addressing implementation factors, and recognizing sound evaluation methods.

**Instructor:** William Shaw, PhD wshaw@uchc.edu  
**Time:** 5:30 – 8:30 PM  
**Location:** U3017A/B, 195 Farmington Ave.

## COURSE DESCRIPTIONS TUESDAYS, 1/22/19– 5/7/19

<b>PUBH 5405-F40 (17519)</b>	<b>Social &amp; Behavioral Foundations of Public Health UCONN Health Farmington</b>	<b>3 credits</b>
<b>PUBH 5405-001 (14080)</b>	<b>Social &amp; Behavioral Foundations of Public Health UCONN Storrs</b>	<b>3 credits</b>

**Be sure to select the campus where you expect to attend classes**

An introductory survey emphasizing basic social science concepts in the analysis of public health, including orientations toward health, disease and health care, the origins and distribution of health care resources and the role of social movements and research in improving public health. **Permission number required from MPH Office.**

**Instructor:** Alicia Dugan, PhD adugan@uchc.edu  
**Time:** 5:30 – 8:30 PM  
**Locations:** Patterson Auditorium, Farmington  
Rowe 320, Storrs

<b>PUBH 5436-F40 (17522)</b>	<b>Intermediate Epidemiology UCONN Health Farmington</b>	<b>3 credits</b>
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This course will go into depth on some of the major design and implementation issues in epidemiology and biomedical research. These issues will be explored by considering the following topics: the structure and design of the important cohort studies in Framingham; the Atomic Bomb survivors in Hiroshima and Nagasaki; Tamoxifen intervention for prevention of breast cancer; cervical screening with Pap and HPV DNA; international differences in cohort effects in breast cancer risk; impact of circadian disruption by electric lighting on disease. By the conclusion of the course, the student should have a better appreciation of the importance and complexities of epidemiological investigation.

**Instructor:** Richard Stevens, PhD bugs@uchc.edu  
**Time:** 5:30 – 8:30 PM  
**Location:** Suite 2100, Large Conference Room, 195 Farmington Ave.

<b>PUBH 5462-F40 (17529)</b>	<b>International Health UCONN Health Farmington</b>	<b>3 credits</b>
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Examines primary health care as a model suited to the health needs of developing nations. Provides a broader understanding of the genesis of illness in developing countries and analyzes the kind of care required to have an impact on these illnesses.

**Instructor:** Marie Brault, PhD marie.a.brault@gmail.com  
**Time:** 5:30 – 8:30 PM  
**Location:** U3017A/B, 195 Farmington Ave.

<b>PUBH 5497-F40 (17629)</b>	<b>Reproductive Ethics and Rights UCONN Health Farmington</b>	<b>3 credits</b>
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This course will explore ethical, human rights, and policy issues related to the provision of reproductive health care using an interdisciplinary perspective. It will examine the requirements of reproductive justice and evolving views over time of the obligations of governments to provide reproductive health services to all women and men. The course will assess the ethical implications of the use of a variety of assisted reproductive technologies, both current and developing technologies, including the genetic screening of embryos, egg donation and payment, sex selection, mitochondrial replacement, and gene editing. The course will also address legal issues related to the regulation of various forms of reproductive health status and pregnancy termination. Course materials will expose students to a variety of perspectives. We also will track and discuss current political controversies and policies. The readings and discussions will focus on the United States, but material from other countries will also be integrated in the course.

**Instructor:** Audrey Chapman, PhD, MDiv, STM achapman@uchc.edu  
**Time:** 2:00 – 5:00 PM  
**Location:** U3017A/B, 195 Farmington Ave.

**COURSE DESCRIPTIONS**  
**WEDNESDAYS, 1/23/19– 5/8/19**

**PUBH 5404-F40 Environmental Health 3 credits**  
**(17518) UCONN Health Farmington**  
**PUBH 5404-001 Environmental Health 3 credits**  
**(14078) UCONN Storrs**

**Be sure to select the campus where you expect to attend classes**

Explores the policy, political and public health implications of such issues as air pollution, drinking water, exposure to hazardous chemicals, indoor air pollution, food safety, lead poisoning, housing, international issues, etc. Provides the student with some basic technical information and familiarity with terms for a better understanding of policy and political decisions and health effects of environmental exposures. **Permission number required from MPH Office.**

**Instructor: Marco Palmeri, MPH, RS mpalmeri@uchc.edu**  
**Time: 6:00 - 9:00 PM**  
**Locations: Patterson Auditorium, Farmington**  
**Rowe 320, Storrs**

**PUBH 5468-F40 Occupational and Environmental Epidemiology 3 credits**  
**(17668) UCONN Health Farmington**

Topics include the history of occupational epidemiology, causal models, occupational exposure classification systems, environmental epidemiology, cohort mortality studies, cross-sectional surveys, case-control studies, ecologic studies, and statistical and methodological issues in research design and their solutions.

**Instructor: Jennifer Cavallari, ScD, CIH cavallari@uchc.edu**  
**Time: 5:30 – 8:30 PM**  
**Location: U3017A/B, 195 Farmington Ave.**

**PUBH 5475 – F40 Public Health and Policy in an Aging Society 3 credits**  
**(17669) UCONN Health Farmington**

This course examines the demographics of aging; organization, financing and delivery of health services for older adults; formal and informal caregiving; retirement and housing policy; and end-of-life care. Policy and ethical aspects of these topics will be explored. The course will be research-oriented, integrating empirical evidence to illustrate central concepts. Familiarity with basic principles of research design, including ability to critically read and synthesize scientific literature is important.

**Instructor: Julie Robison, PhD jrobison@uchc.edu**  
**Richard Fortinsky, PhD fortinsky@uchc.edu**  
**Time: 2:00 – 5:00 PM**  
**Location: ASB2, Administrative Services Building (ASB)**

**PUBH 5497-F41 Public Health Nutrition 3 credits**  
**(17630) UCONN Health Farmington**

This course will introduce the topic, emphasizing the definition, identification and prevention of nutrition-related disease, as well as ways of improving health of a population by improving nutrition. This course also emphasizes the societal, economic, environmental and institutional barriers to improving the nutritional status and health of diverse population groups. It will discuss key concepts and methods in nutritional epidemiology in order to equip students with some of the tools needed to design, analyze and critically evaluate population-based nutrition research. Lastly, it will review existing programs and policies, including strengths, weaknesses and areas for modification or new interventions.

**Instructor: Angela Bermudez-Millan, PhD, MPH bermudez-millan@uchc.edu**  
**Time: 2:00 – 5:00 PM**  
**Location: U3017A/B, 195 Farmington Ave.**

## COURSE DESCRIPTIONS THURSDAYS, 1/24/19–5/9/19

**PUBH 5409-F40 Introduction to Epidemiology & Biostatistics II 3 credits**  
**(17521) UCONN Health Farmington**

**PUBH 5409-001 Introduction to Epidemiology & Biostatistics II 3 credits**  
**(11800) UCONN Storrs**

**Be sure to select the campus where you expect to attend classes**

This is the second of a 2-course required sequence for students pursuing the MPH degree that introduces students to concepts and methods of epidemiology, biostatistics and public health research. Topics include nature of variability, common probability distributions, causal reasoning, control of bias and confounding, descriptive and analytic design of observational and experimental studies, principles of disease screening and clinical efficacy. Non-degree students may request permission to enroll through the MPH Program Office.

**Instructor:** Scott Wetstone, MD wetstone@uchc.edu

**Time:** 6:00 – 9:00 PM

**Locations:** Patterson Auditorium, Farmington  
Rowe 320, Storrs

**PUBH 5453-F40 Chronic Disease Control 3 credits**  
**(17536) UCONN Health Farmington**

Chronic diseases are examined from clinical, epidemiologic and evidence-based risk reduction perspectives. Diseases examined include selected cancers, Type II diabetes, cardiovascular and cerebrovascular diseases, chronic obstructive pulmonary disease, obesity, sickle cell disease/trait and conditions tested in state newborn screening programs. Also covered: historical and modern roles of public health agencies in chronic disease control and ethnic/racial disparities in incidence and outcomes.

**Instructor:** Helen Swede, PhD swede@uchc.edu

**Time:** 2:00 – 5:00 PM

**Location:** U3017A/B, 195 Farmington Ave.

**PUBH 5463-F40 Comparative Health Systems 3 credits**  
**(17530) UCONN Health Farmington**

This course will conduct a comparative analysis of how selected health systems perform key functions, deliver essential services, finance health service delivery, and prioritize public health provision. It will also address how health systems are responding to a series of challenges such as funding the escalating costs of health services and health-related inputs, responding to demands for expanding health services coverage, and responding to the shift to the disease burden from infectious to non-communicable diseases. The countries which will be covered in readings, lectures, and discussions will include the U.S., Britain, Germany, France, Brazil, Mexico, Israel, India, China, and Japan. This will not be a human rights course but it will assign and discuss relevant human rights norms.

**Instructor:** Audrey Chapman, PhD, MDiv, STM achapman@uchc.edu

**Time:** 5:30– 8:30 PM

**Location:** Suite 2100, Large Conference Room, 195 Farmington Ave.

**PUBH 5497-F44 Transportation, Energy, Land Use and Public Health 3 credits**  
**(17634) UCONN Health Farmington**

This course focuses on 1) the impact of transportation, energy and land use on population health status and quality of life; 2) their disparate and discriminatory impact on minority and low income persons and families; and 3) strategies to improve public health within these domains. The course is designed to prompt lively class discussions/debates and will introduce students to guest speakers providing valuable contacts and resources.

**Instructor:** Barry Zitser, JD, MPH zit123cap@gmail.com

**Time:** 5:30– 8:30 PM

**Location:** U3017A/B, 195 Farmington Ave.

**COURSE DESCRIPTIONS**  
**FRIDAYS, 1/25/19–5/10/19**

**PUBH 5497-F45 Leadership Education in Neurodevelopmental and related Disabilities 3 credits**

**(LEND) Seminar II**

**(17906) UCONN Health Farmington**

This is the second of a 2-seminar sequence that is part of an interdisciplinary leadership training program aimed at improving the health of infants, children and adolescents who have, or are at risk for developing, neurodevelopmental and other related disabilities, with an emphasis on autism spectrum disorders. Lecturers include experts from different disciplines from UConn and across the country. Topics include the following: cultural competency, family-centered care, interdisciplinary teamwork, service integration, community-based organization, disability policy and advocacy, etc. This seminar is open to Leadership Education in Neurodevelopmental and related Disabilities (LEND) trainees.

**Instructor: Mary Beth Bruder, PhD**

**bruder@uchc.edu**

**Time: 8:30 – 4:30 PM**

**Location: UCEDD Conference Room, Suite 173,  
The Exchange, 270 Farmington Ave.**

## VARIABLE DAYS & TIMES

**PUBH 5495**      **Independent Study in Public Health**      **1 – 9 credits**  
**(17540)**      **UCONN Health Farmington**

An individual course for those wishing to pursue special topics in the public health sciences under faculty supervision.  
May be repeated for credit.

**Instructor:**      **Staff**  
**Time/Location:**      **By arrangement**

**PUBH 5498-F40**      **Field Experience in Public Health Systems**      **Variable credits**  
**(17523)**      **UCONN Health Farmington**

Under direction by field preceptors, students will participate in an intensive service-learning experience wherein they will examine a timely public health issue from the perspective of health indicators/disease surveillance; policy development; planning, implementation, or evaluation of public health services; essential public health functions; and operational issues of a large complex public health agency/organization. (**NOTE:** Students will be required to minimally dedicate a half day (at least 3 day-time hours) each week to their onsite field work obligations, consistent with the hours/schedule of the agency/organization and must adjust their schedules accordingly.) **Permission number required from MPH Office.**

**Instructor:**      **Stacey Brown, PhD**      **stbrown@uchc.edu**  
**Time/Location:**      **By arrangement**

**PUBH 5499-F40**      **Capstone Project in Public Health**      **Variable 3-6 credits**  
**(17524)**      **UCONN Health Farmington**

Under faculty guidance, students pursue independent projects on special topics in the public health sciences. This is the course intended for students pursuing a final project. **Permission number required from MPH Office.**

**Instructor:**      **David Gregorio, PhD, MS**      **gregorio@uchc.edu**  
**Time/Location:**      **By arrangement**

**PUBH 6490-F40**      **Public Health Doctoral Research Seminar**      **1 credit**  
**(17526)**      **UCONN Health Farmington**

The Public Health Doctoral Research Seminar is required of all doctoral candidates. Seminars should be completed during the first three semesters of enrollment. This course is on the dynamics of teaching public health, under the supervision of a faculty member during that faculty member's course. Using selected readings and workshops on teaching effectiveness, students will shadow instructors of the public health program and reflect on differences inherent in teaching in large lecture or small conference settings. Please arrange this placement with the faculty member and the Program Director. **Permission number required from MPH Office.**

**Instructor:**      **Thomas Babor, PhD, MPH**      **babor@uchc.edu**  
**Time/Location:**      **By arrangement**

**GRAD 5950**      **Master's Thesis Research**      **Variable 1-9 credits**  
                    **UCONN Health Farmington**

This course is to be used by those students who are performing required research for the Master's Thesis paper. Other courses may be taken concurrently and students may hold a graduate assistantship. Full-time enrollment equals a total of 6 credits. **Recommendation of student's major advisor and MPH program permission required.**

**Instructor:**      **Student's Major Advisor**  
**Time/Location:**      **By arrangement**

**GRAD 5998-F10**      **Special Readings**      **0 credits**  
**(17614)**      **UCONN Health Farmington**

To be used by master's students who are not enrolled in a thesis (Plan A) track. This is a non-credit course for which master's degree students must register in cases where their regular program of course work for credit has been interrupted and they are not otherwise registered.

**Instructor:**      **Student's Major Advisor**  
**Time/Location:**      **By arrangement**

**GRAD 5999-F10**      **Thesis Research**      **0 credits**  
**(17615)**      **UCONN Health Farmington**

Open only to graduate students enrolled in a Plan A Master's Degree Program. This is a non-credit course to be used to maintain registered status by Plan A master's students who have completed their coursework and who are not registered for any other credit-bearing course.

**Instructor:**      **Student's Major Advisor**  
**Time/Location:**      **By arrangement**

## ONLINE COURSES

**PUBH 5479-F40 Alcohol and Drug Policy Research 3 credits**  
**(17538) Online**

Policymakers and government officials are increasingly seeking answers to practical questions about the impact of policies and programs on the health of the population, as well as on crime rates, traffic accidents and harm to others. Discussion of the measures, methods and research designs used to investigate alcohol and drug policy issues, including prevention science.

**Instructor: Jonathan Noel, PhD, MPH**

**jonathan.noel@jwu.edu**

**Dates/Times: By arrangement**

**PUBH 5481-F40 Research Careers & the Responsible Conduct of Research in Alcohol & 3 credits**  
**(17539) Online**

This course is designed to achieve three objectives: 1) Teach students about the responsible conduct of research and ethical research practices; 2) Provide guidance on how to develop a sound research proposal by guiding students through the public and private grant writing process; and 3) Review career options and employment opportunities in addiction science. **Permission number required from instructor.**

**Instructor: Thomas Babor, PhD, MPH**

**babor@uchc.edu**

**Dates/Times: By arrangement**

**PUBH 5501-F40 Foundations of Public Health and Disability 3 credits**  
**(17528) Online**

Introductory survey of the ways in which disability, both developmental and acquired, is affected by, and interacts with, public health policy and practice. Students will have a foundational understanding of a comprehensive set of issues of both acquired and developmental disability as related to the core elements of public health as framed by the 10 Essential Public Health Services. **Permission number required from instructor.**

**Instructor: Tara Lutz, PhD, MPH, CHES**

**lutz@uchc.edu**

**Dates/Times: By arrangement**

**PUBH 5502-F40 Epidemiology of Disability 3 credits**  
**(17533) Online**

This course introduces epidemiologic research design and delves deeply into epidemiology, as it applies to monitoring the health status of people with disabilities, diagnosing and investigating health problems, evaluating personal and population-based interventions, and conduct of research as uniquely affecting and affected by disability. It also critically examines sources of public health and epidemiologic data that exist. As part of the Certificate of Interdisciplinary Disability Studies in Public Health (Disability Certificate), the course aligns with the 10 Essential Public Health Services. **Prerequisites: PUBH 5501 (waived with instructor permission).**

**Instructor: Tara Lutz, PhD, MPH, CHES**

**lutz@uchc.edu**

**Dates/Times: By arrangement**

**PUBH 5504-F40 Public Health Interventions in Disability 3 credits**  
**(17525) Online**

This course is the final course in the Certificate of Interdisciplinary Disability Studies in Public Health (Disability Certificate). It aligns with the 10 Essential Public Health Services. It critically examines public health systems and programs across the lifespan available to people with disabilities that impact health. It extends on foundational principles that are evidence-based and driven by epidemiologic studies of disability within the context of existing laws and policies. **Prerequisites: PUBH 5501, 5502, & 5503 (waived with instructor permission).**

**Instructor: Tara Lutz, PhD, MPH, CHES**

**lutz@uchc.edu**

**Dates/Times: By arrangement**