



DREXEL UNIVERSITY

Dornsife

School of Public Health

# CATALOG

2020-2021

**GRADUATE**



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# The Dornsife School of Public Health

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## About the School

The Dornsife School of Public Health at Drexel University was founded on the principle of health as a human right and the recognition of the importance of social justice as a means to achieve health for all. We define health broadly to encompass physical, mental, and social well-being and not merely as the absence of disease or infirmity. We view the focus on the health of populations as a distinguishing feature of the field of public health. Our mission is to provide education, conduct research, and partner with communities and organizations to improve the health of populations.

The Dornsife School of Public Health was the first accredited school of public health in Philadelphia by the Council on Education for Public Health (CEPH). CEPH accreditation ensures quality and state-of-the-art education. By attending an accredited school of public health, students benefit from the broad range of educational and experiential opportunities that only full schools of public health can offer.

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## Quarter Calendars 2019 - 2013

BS, MPH, Executive MPH, Online MPH, MS, DrPh, PhD

Academic Calendar (<https://drexel.edu/provost/calendars/academic-calendars/quarters/>)

## Dornsife School of Public Health Faculty

Joseph Amon, PhD, MSPH (*Uniformed Services University of the Health Sciences*) *Director of the Office of Global Health*. Clinical Professor. Department of Community Health and Prevention. Global health; health and human rights; political epidemiology; ethics; mixed methods; health policy and advocacy; HIV/TB; monitoring and evaluation.

Amy Auchincloss, PhD, MPH (*University of Michigan*). Associate Professor. Department of Epidemiology and Biostatistics. Cardiovascular disease, data analysis methods; diabetes; global health or international health; health disparities; health economics; health policy; nutrition; spatial analysis or GIS; urban health.

Sharrelle Barber, ScD, MPH (*Harvard University*) *Director, The Ubuntu Center on Racism, Global Movements and Population Health Equity*. Assistant Professor. Department of Epidemiology and Biostatistics. Racial/ethnic health inequalities in cardiovascular disease; social determinants of racial/ethnic health inequalities in cardiovascular disease; community-engaged research; geography and health; multilevel analysis; spatial analysis and GIS; global health; urban health.

Scarlett Bellamy, ScD (*Harvard University*) *Associate Dean for Diversity, Inclusion and Faculty Development*. Professor. Department of Epidemiology and Biostatistics. Clinical trials; data analysis methods; health disparities; infectious disease; mental health and behavioral health; reproductive or sexual health.

Zekarias Berhane, PhD (*University of Pittsburgh*). Assistant Professor. Department of Epidemiology and Biostatistics. Cancer; clinical trials;

data analysis methods; global health and international health; health disparities; maternal and child health; urban health.

Usama Bilal, PhD, MPH, MD (*Johns Hopkins University*). Assistant Professor. Department of Epidemiology and Biostatistics. Urban Health Collaborative. Cardiovascular disease; diabetes; health and place or built environment; data analysis methods; health disparities; spatial analysis or GIS; urban health.

Sandra Bloom, MD (*Temple University School of Medicine*). Associate Professor. Department of Health Management and Policy. Psychological trauma and organizational stress.

Sherry Brandt-Rauf, MPhil, JD (*Columbia University*). Associate Teaching Professor. Department of Environmental and Occupational Health. Health policy, occupational health, environmental exposures, health disparities, public health law.

Jennifer Breaux, DrPh, MPH, CHES (*Drexel University*) *Director of Undergraduate Education*. Associate Teaching Professor. Department of Community Health and Prevention. Maternal and child health, community health, human rights.

Darryl Brown, PhD (*Johns Hopkins University*). Associate Teaching Professor. Department of Health Management and Policy. Health services research; healthcare administration and management; patient reported outcomes; health disparities; Pharmacoeconomics; managed care; urban health.

James W. Buehler, MD (*University of California, San Francisco*) *Interim Chair*. Clinical Professor. Department of Health Management and Policy. Health policy; urban health; public health practice; public health & health care interface.

Igor Burstyn, PhD (*Utrecht University*). Associate Professor. Department of Environmental and Occupational Health. O. Cancer; community based participatory research; cardiovascular disease; data analysis methods; statistical modeling; environmental exposures; maternal and child health; mental health and behavioral health; neurodevelopment and neurologic disorders; occupational health; asthma and COPD; industrial hygiene; risk assessment; epidemiology; Bayesian statistics.

Amy Carroll-Scott, PhD, MPH (*University of California at Los Angeles*). Associate Professor. Urban health; health and place or built environment; community based participatory research; health inequities; spatial analysis or GIS; data integration; data visualization; mixed methods study designs; place-based, cross-sector interventions and evaluation.

Esther Chernak, MD, MPH, FACP (*UMDNJ-Robert Wood Johnson Medical School*) *Director of the Center for Public Health Readiness and Communication; Director of Joint Degree Programs*. Associate Clinical Professor. Department of Environmental and Occupational Health. Drexel University College of Medicine; Infectious diseases, public health emergency preparedness, medicine and public health, public health practice, crisis and emergency risk communication.

Mariana Chilton, PhD, MPH (*University of Pennsylvania*) *Director, Center for Hunger-Free Communities*. Professor. Department of Health Management and Policy. . Nutrition; community engaged research; health disparities; health policy; maternal and child health; mental health and behavioral health; urban health; violence and trauma; human rights; food insecurity.

Jane Clougherty, MSc, ScD (*Harvard University*). Associate Professor. Department of Environmental and Occupational Health. Environmental

exposures; health and place or built environment; health disparities; urban health; violence and trauma; air pollution; chronic stress; environmental epidemiology; exposure science; gender analysis; multiple exposures; social epidemiology; spatial analysis and GIS; violence exposures.

Theodore Corbin, MD, MPP (*Drexel University*). Associate Professor. Department of Health Management and Policy. Health policy; design of care systems; high risk youth; violence; healthcare services; injury prevention.

Anneclaire De Roos, PhD, MPH (*University of North Carolina at Chapel Hill*). Associate Professor. Department of Environmental and Occupational Health. Environmental exposures; occupational health; spatial analysis or GIS; health and place or built environment; urban health; pesticides; risk assessment; drinking water; green landscape in cities.

Ana Diez Roux, MD, PhD, MPH (*Johns Hopkins University*) *Dean*. Distinguished Professor. Department of Epidemiology and Biostatistics. Urban Health Collaborative. Social determinants of health; neighborhoods and health; race and ethnic health disparities; psychosocial factors and cardiovascular disease; air pollution epidemiology; urban health; multilevel methods; complex systems approaches to population health; health in Latin America.

Nancy Epstein, MPH, MAHL (*University of North Carolina at Chapel Hill*). Professor. Department of Community Health and Prevention. . Arts and public health; community organizing and community-engaged research; religion, spirituality and health; behavioral health; program planning and evaluation.

Alison A. Evans, ScD (*Harvard University*). Associate Professor. Department of Epidemiology and Biostatistics. . Cancer; data analysis methods; immigrant health; infectious disease; maternal and child health; reproductive or sexual health.

Alex Ezeh, PhD (*University of Pennsylvania*) *Professor of Global Health*. Department of Community Health and Prevention. Global/international health; reproductive and sexual health; urban health; longitudinal research designs and methods; population change and its drivers; health systems research; research capacity strengthening.

Jerry Fagliano, MPH, PhD (*Johns Hopkins University*) *Chair*. Associate Clinical Professor. Department of Environmental and Occupational Health. Environmental exposures; public health practice; health disparities; climate change.

Robert I. Field, PhD, JD, MPH (*Columbia University*) *Director, JD/MPH Program*. . Professor. Department of Health Management and Policy. Health policy; public health law; health administration and management; public health ethics.

Janet Fleetwood, PhD (*University of Southern California*) *Interim Chair*. Professor. Department of Community Health and Prevention. Public health ethics; urban health; health disparities; food safety.

Dennis Gallagher, MA, MPA (*University of Pittsburgh*). Associate Teaching Professor. Department of Health Management and Policy. Health policy; history of public health; Medicare/Medicaid; public health practice.

Neil Goldstein, PhD, MBI (*Drexel University*). Assistant Research Professor. Department of Epidemiology and Biostatistics. Data analysis methods; eHealth or mHealth; infectious disease; maternal and child health; reproductive or sexual health; spatial analysis or GIS; statistical

modeling; vaccines and vaccinations; electronic medical records/informatics; translational epidemiology.

Edward J. Gracely, PhD (*Temple University*) Joint Appointment in *Drexel University College of Medicine*. Associate Professor. Department of Epidemiology and Biostatistics. Data analysis methods; statistical consulting; biostatistics; multiple comparisons.

Ali Groves, PhD, MHS (*University of North Carolina*). Assistant Professor. Community engaged research; health disparities; health and place; maternal and child health; mixed methods research social determinants of racial/ethnic inequities in maternal health; spatial analysis or GIS; urban health.

Irene Headen, PhD (*University of California, Berkeley*). Assistant Professor. Community Engaged Research, Health Disparities Health and Place, Maternal and Child Health Mixed Methods Research, Social Determinants of Racial/Ethnic Inequities in Maternal Health, Spatial Analysis or GIS, Urban Health

Tom Hipper, MSPH, MA (*Johns Hopkins University*) Associate Director, *Center for Public Health Readiness and Communication*. Assistant Teaching Professor. Department of Environmental and Occupational Health. Crisis communication; risk communication; health communication; public health preparedness; emergency management; social media.

Jana Hirsch, MES, PhD (*University of Michigan*). Assistant Research Professor. . Department of Epidemiology and Biostatistics. Urban Health Collaborative. Health and place or built environment; health disparities; mental health and behavioral health; spatial analysis or GIS; urban health; physical activity; active aging and age-friendly neighborhoods.

Mary E. Hovinga, PhD, MPH (*University of Michigan*). Associate Professor. Department of Epidemiology and Biostatistics. Cancer; environmental exposures; maternal and child health.

Tran Huynh, PhD, MPH, CIH (*University of Minnesota*). Assistant Professor. Department of Environmental and Occupational Health. Community engaged research; cardiovascular disease; statistical modeling; immigrant health; health disparities; occupational health; workplace health interventions; industrial hygiene; Bayesian statistics; exposure assessment; epidemiology.

Jessie Kemmick Pintor, PhD, MPH (*University of Minnesota*). Assistant Professor. Department of Health Management and Policy. Community based participatory research; immigrant health; health disparities; health services research; health policy; maternal & child health; mixed methods; immigration policy.

Ann Klassen, PhD (*Johns Hopkins University*). Professor. Department of Community Health and Prevention. Cancer; community based participatory research; data analysis methods; GIS-based and spatial analysis; environmental exposures; global health; immigrant health; health communication; health disparities; health policy; maternal and child health; substance abuse; nutrition; sexual health; urban health; mixed methods; qualitative methods; excess burden intervention.

Jennifer Kolker, MPH (*University of Michigan*) Associate Dean for *Public Health Practice and External Relations*. Clinical Professor. Department of Health Management and Policy. Access to care; health equity, health policy; public health practice; urban health.

Shiriki Kumanyika, PhD, MS, MPH (*Cornell University*). Research Professor. Department of Community Health and Prevention. Solutions to obesity and diet-related diseases in black children and adults; ethnic

disparities in obesity in the US and other high-income countries; "culture of health" approaches in black communities; assessment of food environments; environmental influences on lifestyle changes; targeted marketing of unhealthy foods and beverages; food and nutrition policy; evidence-based public health; social determinants of health and health equity; systems science applications in public health.

Brent Langellier, PhD, MA (*University of California, Los Angeles*). Assistant Professor. Department of Health Management and Policy. Health disparities; health policy; immigrant health.

Stephen E. Lankenau, PhD (*University of Maryland*) Associate Dean for *Research*. Professor. Department of Community Health and Prevention. Mental health and behavioral health; substance use; urban health.

Mariana Lazo, MD, PhD, ScM (*Johns Hopkins University*). Associate Research Professor. Racial/ethnic health disparities; Hispanic/Latino health; social determinants of health; community-based participatory research; urban health; epidemiology of obesity and diabetes; epidemiology of cardiovascular diseases; epidemiology of alcohol consumption; epidemiology of chronic liver diseases.

Michael LeVasseur, PhD (*Drexel University*). Assistant Teaching Professor. Data analysis; health disparities; infectious disease; reproductive or sexual health.

Brian K. Lee, PhD (*Johns Hopkins University*). Associate Professor. Department of Epidemiology and Biostatistics. Data analysis methods; maternal and child health; mental health and behavioral health; neurodevelopment and neurologic disorders.

Nora L. Lee, PhD (*Johns Hopkins University*). Assistant Research Professor. Department of Epidemiology and Biostatistics. Maternal and child health; reproductive and perinatal health; health disparities; tobacco control.

Longjian Liu, MD, PhD, MSc, FAHA (*The University of Hong Kong*). Associate Professor. Department of Epidemiology and Biostatistics. Cardiovascular disease; diabetes; environmental exposures; global health or international health; health disparities; infectious disease; neurodevelopment and neurologic disorders; nutrition; spatial analysis or GIS; urban health; pharmacoepidemiology; air quality and urban health in China; health failure epidemiology.

Gina Lovasi, PhD, MPH (*University of Washington*) Co-Director of the *Urban Health Collaborative*. Associate Professor of *Urban Health*. Department of Epidemiology and Biostatistics. Urban Health Collaborative. Cardiovascular disease; data analysis methods; health and place or built environment; health disparities; spatial analysis or GIS; urban health; urban trees and greenspace; local retail and urban design; transportation, infrastructure and policies.

Félice Lê-Scherban, PhD, MPH (*University of Michigan*). Associate Professor. Department of Epidemiology and Biostatistics. Life course approaches to socioeconomic, racial, and ethnic health disparities; social determinants of health among immigrants; causal links between education and health; analytic methods in social epidemiology.

Ana Martinez-Donate, PhD (*Universidad Autonoma de Madrid, Spain*). Professor. Department of Community Health and Prevention. Community engaged research; immigrant health; health disparities; HIV prevention; health care access; Latino health.

Tara McAlexander, PhD (*Johns Hopkins University*). Assistant Research Professor. Cardiovascular disease, diabetes, nutrition; spatial analysis or

GIS; data analysis methods, statistical modeling; health and place or built environment; occupational health, environmental exposures, emergency preparedness; health disparities.

Leslie McClure, PhD, MPH (*University of Michigan*) *Chair, Associate Dean for Faculty Affairs*. Professor. Department of Epidemiology and Biostatistics. Cardiovascular disease; clinical trials; environmental exposures, statistical modeling; adaptive designs in clinical trials; statistical methods for environmental epidemiology.

Yvonne Michael, ScD (*Harvard University*). Professor. Department of Epidemiology and Biostatistics. Social epidemiology; epidemiology of aging; women's health; neighborhoods and health; health disparities.

Alex Ortega, PhD (*University of Michigan*) *Director, Center for Population Health and Community Impact*. Professor. Department of Health Management and Policy. Latino health; immigrant health; health disparities; health services research; health policy.

Sungchul Park, PhD, MPH (*University of Washington*). Assistant Professor. Department of Health Management and Policy. Data analysis methods; statistical modeling; health economics; health disparities; health policy.

Jonathan Purtle, DRPH, MPH, MSc (*Drexel University*). Associate Professor. Department of Health Management and Policy. Mental health policy and services research; policy dissemination and implementation research; traumatic stress in urban areas; trauma-informed system design; violence prevention; political institutions and health.

Harrison Quick, PhD (*University of Minnesota*). Assistant Professor. Department of Epidemiology and Biostatistics. Occupational health; spatial analysis or GIS; statistical modeling; urban health; Bayesian inference; data confidentiality.

Alex Quistberg, PhD, MPH (*University of Washington*). Assistant Research Professor. Department of Environmental and Occupational Health. Urban Health Collaborative. Data analysis methods; global health or international health; health and place or built environment; health disparities; spatial analysis or GIS; urban health; intentional/violent injury and trauma; unintentional injury and trauma.

John A. Rich, MD, MPH (*Duke University*) *Director, Center for Nonviolence and Social Justice*. Professor. Department of Health Management and Policy. Health disparities; violence and trauma; urban health.

Lucy Robinson, PhD (*Columbia University*). Assistant Professor. Department of Epidemiology and Biostatistics. Data analysis methods; neurodevelopment and neurologic disorders; spatial analysis or GIS; statistical modeling.

Alexis Roth, PhD, MPH (*Indiana University*). Associate Professor. Department of Community Health and Prevention. Substance use; reproductive or sexual health; community engaged research; infectious diseases; eHealth or mHealth; health disparities; urban health; mixed methods; women's health; social determinants of health.

Ayden Scheim, PhD (*Western University, Canada*). Assistant Professor. Department of Epidemiology and Biostatistics. Global health or international health; infectious disease; substance use; community based participatory research; social epidemiology; survey research methods; HIV/AIDS; LGBT health.

Leah Schinasi, PhD (*University of North Carolina*). Assistant Professor. Department of Environmental and Occupational Health. Environmental exposures; cancer; health and place or built environment; occupational health; urban health; community based participatory research; environmental justice; environmental epidemiology; climate change.

Randall L. Sell, ScD (*Harvard University*). Professor. Department of Community Health and Prevention. Evaluation methods; research methods; LGBT health.

Lindsay Shea, DrPH, MS (*Drexel University*). Assistant Professor. Department of Health Management and Policy. Neurodevelopment; neurologic disorders; mental health; behavioral health; health policy.

David Smith, PhD (*University of Michigan*). Research Professor. Department of Health Management and Policy. Health administration and management; health disparities; history of public health; health services research; health policy; spatial analysis or GIS.

Suruchi Sood, PhD (*University of New Mexico*). Associate Professor. Department of Community Health and Prevention. Global health or international health; health communication; maternal and child health; community based participatory research; community engaged research data analysis methods; nutrition; public health practice; reproductive or sexual health; violence and trauma; adolescent health; process evaluation (monitoring); program evaluation.

Mark Stehr, PhD (*University of California at Berkeley*) *Director School of Economics*. Professor. Health economics; health behaviors; public finance; public policy.

Jim Stimpson, PhD (*University of Nebraska*) *Senior Associate Dean for Education*. Professor. Department of Health Management and Policy. Cancer; immigrant health; health and place or built environment; health services research; health disparities; health policy; urban health.

Nina Sun, JD (*University of Maryland*) *Deputy Director, Global Health*. Assistant Clinical Professor. Department of Community Health and Prevention. Global health; sexual and reproductive health; health disparities; health policy; human rights; social and political determinants of health.

Thersa Sweet, PhD, MPH (*University of Michigan*). Associate Teaching Professor. Department of Epidemiology and Biostatistics. Cancer; health disparities; infectious diseases.

Brisa Sánchez, PhD (*Harvard University*). Dornsife Endowed Professor. Department of Epidemiology and Biostatistics. Statistical methods development; big data; data integration; health and place or built environment; development of mixed methods; health disparities; spatial analysis or GIS; environmental exposures.

Loni Philip Tabb, PhD (*Harvard University*). Associate Professor. Department of Epidemiology and Biostatistics. Cardiovascular health; health disparities & inequities; urban health; violence and trauma; environmental exposures; health and place; built environment; Bayesian statistical methods; spatial and spatio-temporal disease mapping.

Jennifer A. Taylor, PhD, MPH, CPPH (*Johns Hopkins University*) *Director, Center for Firefighter Injury Research and Safety Trends*. *Arthur L. and Joanne B. Frank Professor*. Department of Environmental and Occupational Health. Community engaged research; data analysis methods; healthcare administration and management; health services research; health disparities; health policy; mental health or behavioral

health; occupational health; public health practice; spatial analysis or GIS; urban health; violence and trauma.

Renee M. Turchi, MD, MPH (*Johns Hopkins University*) *Joint appointment in the Drexel University College of Medicine.* Clinical Professor. Department of Community Health and Prevention. Health care for children and youth with special health care needs; child and maternal health.

Seth Welles, PhD, ScD (*Harvard University*). Professor. Department of Epidemiology and Biostatistics. Cancer; clinical trials; community engaged research data analysis methods; global health or international health; health disparities; infectious disease; mental health and behavioral health; reproductive or sexual health; statistical modeling; substance use; violence and trauma.

Issa Zakeri, PhD (*University of Illinois and Urbana-Champaign*). Professor. Department of Epidemiology and Biostatistics. Data analysis methods; statistical modeling.

## Emeritus Faculty

Arthur L. Frank, MD, PhD (*Mount Sinai School of Medicine*) *Chair Emerita*. Professor. Department of Environmental and Occupational Health. Cancer; environmental exposures; global or international health; history of public health; occupational health; agricultural safety and health; toxicology; environmental justice.

Marla Gold, MD (*New Jersey Medical School*) *Vice Provost, Dean Emerita*. Professor. Department of Health Management and Policy. Design of HIV/AIDS care systems, treatment protocols, resource utilization, and epidemiology; CQI, managed care and systems of health care, health administration, behavioral health care and substance abuse treatment systems.

Raymond Lum, MS (*University of Pennsylvania*). Associate Teaching Professor. Department of Health Management and Policy. Asian health; change management; E-health; health disparities; innovation diffusion; organization learning theory.

Jana M. Mossey, PhD, MPH, MSN (*University of North Carolina at Chapel Hill*). Professor Emerita. Department of Epidemiology and Biostatistics. Mental health; aging; social and psychiatric.

Augusta M. Villanueva, PhD (*University of Texas at Austin*). Associate Professor Emerita. Department of Community Health and Prevention. Poverty; health care for the underserved; health disparities; high risk youth; urban health issues; racial and ethnic disparities in health and health care; community-based participatory research behavioral health; community health; immigrant communities; LGBT issues; public health infrastructure; qualitative research.

## Biostatistics

*Major: Public Health*

*Degree Awarded: Master of Science (MS)*

*Calendar Type: Quarter*

*Total Credit Hours: 48.0*

*Co-op Option: None*

*Classification of Instructional Programs (CIP) code: 26.1102*

*Standard Occupational Classification (SOC) code: 11-9121; 15-2041*

## About the Program

Biostatistics applies statistical, mathematical, and computational techniques to scientific research in health-related fields, including medicine, epidemiology, and public health. Biostatistics has been an integral and indispensable tool in improving health and reducing illness. Biostatisticians play essential roles in designing studies and analyzing research data. Graduates with degrees in biostatistics are employed in public health research and service organizations, university research groups, hospitals, pharmaceutical companies, health-related industries, and government. The demand for biostatisticians in the job market has been consistently strong. New technologies are generating an unprecedented amount of data which present exciting opportunities for biostatisticians with strong computational skills.

The goal of Drexel University's MS in Biostatistics program is to provide students with a thorough understanding of biostatistical methods, strong computational skills, and the ability to apply this knowledge to research focusing on health-related problems. The program prepares students for handling the quantitative and computational aspects of a research project ranging from study design, to data collection and management, to developing analysis plans, to conducting analyses, and to reporting findings both orally and in writing. The MS in Biostatistics program includes coursework in statistical theory and methods, computing and data management, epidemiology, and general public health topics. Incorporated into the second year is a two quarter-long practicum experience working on a real academic, government, or industry project in a sponsoring organization setting. The practicum-based research project will involve the application of biostatistical analysis to a problem of significance to the sponsoring academic, government, or industry organization with joint oversight provided by a Department faculty member and an on-site PhD-level biostatistician.

Upon graduation, MS students will attain competencies in the following three areas: general public health knowledge, biostatistics knowledge, and data management and computing skills.

## Major Competencies

- Apply appropriate quantitative methods to evaluate the determinants and epidemiology of health and disease
- Manage and maintain analytic datasets
- Execute a data analysis plan
- Communicate statistical findings effectively and succinctly using data visualization tools and appropriate summaries
- Work collaboratively with researchers in public health, medicine, and other health science disciplines

## Additional Information

For more information about this program, please contact:

DSPH Academic Advising Team  
Office of Education  
dspadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

### Required Biostatistics Courses

BST 551 Statistical Inference I

3.0



BST 553	Longitudinal Data Analysis	3.0
BST 555	Introduction to Statistical Computing	3.0
BST 557	Survival Data Analysis	3.0
BST 569	Linear Statistical Models	4.0
BST 570	Generalized Linear Models	4.0
BST 651	Statistical Inference II	4.0
BST 701	Advanced Statistical Computing	3.0
<b>Required Epidemiology Course</b>		
EPI 570	Introduction to Epidemiology	3.0
<b>Required Public Health Course</b>		
PBHL 501	Introduction to Public Health	0.0
<b>Master's Project Course</b>		
BST 699	Data Analysis Project	6.0
<b>Electives</b>		
Students must select 12.0 credits total. Some potential electives include the following:		12.0
BST 557	Survival Data Analysis	
BST 558	Applied Multivariate Analysis	
BST 561	Design & Analysis of Clinical Trials	
BST 567	Statistical Consulting	
BST 568	Nonparametric and Semiparametric Models	
BST 604	Applied Bayesian Analysis	
EPI 550	Applied Survey Research in Epidemiology	
EPI 552	Epidemiology for Public Health Practice	
EPI 553	Infectious Disease Epidemiology	
EPI 556	Perinatal Epidemiology	
EPI 557	Cardiovascular Disease Epidemiology & Prevention	
EPI 558	Making Sense of Data	
EPI 559	Pharmacoepidemiology	
EPI 561	Pathophysiologic Basis of Epidemiologic Research	
EPI 573	Autism as a Public Health Challenge	
<b>Total Credits</b>		<b>48.0</b>

## Sample Plan of Study

### First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
BST 551	3.0 BST 651	4.0 BST 557	3.0 VACATION	
BST 555	3.0 BST 570	4.0 BST 701	3.0	
BST 569	4.0 EPI 570	3.0 Biostatistics Elective	3.0	
	<b>10</b>	<b>11</b>	<b>9</b>	<b>0</b>

### Second Year

Fall	Credits Winter	Credits
BST 553	3.0 BST 699	3.0
BST 699	3.0 PBHL 501	0.0
Biostatistics Elective	3.0 Biostatistics Electives	6.0
	<b>9</b>	<b>9</b>

**Total Credits 48**

## Biostatistics PhD

*Major: Public Health*

*Degree Awarded: Doctor of Philosophy (PhD)*

*Calendar Type: Quarter*

*Total Credit Hours: 90 without prior master's degree, 45 with prior master's degree*

*Co-op Option: None*

*Classification of Instructional Programs (CIP) code: 26.1102*

*Standard Occupational Classification (SOC) code: 15-2041*

## About the Program

The PhD in Biostatistics will train highly functional statistical researchers with the breadth of knowledge to contribute to many applied domains or to specialize in a single theoretical domain. Students should expect to receive a strong, quantitative foundational core in statistical theory while simultaneously having opportunities to apply these concepts to a wide range of practical applications. An important feature of our new program is deliberate exposure to more contemporary quantitative concepts in data science.

The doctoral program in Biostatistics will offer interdisciplinary instruction and research opportunities that are designed to provide a solid training in both statistical theory and in applications of biostatistical methods to a variety of relevant contexts that are central to modern interdisciplinary research. This program will prepare doctoral students for successful careers in academia (both teaching and research), government agencies, private health-related organizations/industries, and many other data-driven industries.

## Major Competencies

- Master fundamental concepts in probability and statistical theory
- Construct an analysis plan to evaluate a scientific question of interest
- Critically appraise statistical methods literature
- Communicate statistical findings effectively and succinctly using data visualization tools and appropriate summaries
- Direct quantitative methods of collaborative investigations with researchers in public health, medicine, and other health science disciplines

## Additional Information

For more information about this program, please contact:

DSPH Academic Advising Team

Office of Education

dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

### Required Courses \*\*

BST 701	Advanced Statistical Computing	3.0
BST 751	Statistical Inference I	3.0
BST 804	Applied Bayesian Analysis	3.0
BST 819	Statistical Machine Learning for Biostatistics	3.0
BST 823	Theory of Generalized Linear and Mixed Models	3.0
BST 825	Probability Models and Stochastic Processes	3.0
BST 826	Research Skills in Biostatistics I	1.0
BST 827	Research Skills in Biostatistics II	1.0
BST 828	Research Skills in Biostatistics III	1.0
BST 851	Statistical Inference II	3.0
BST 867	Statistical Consulting	3.0
BST 869	Linear Statistical Models	4.0
BST 870	Generalized Linear Models	4.0
MATH 510	Applied Probability and Statistics I	3.0
EPI 570	Introduction to Epidemiology	3.0
RCRG 600	An Introduction to the Responsible Conduct of Research	0.0

### Non-credit Consulting Lab

Dissertation		<b>34.0</b>
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BST 999	Biostatistics Thesis Research	
<b>Electives (Choose Three)</b>		<b>9.0</b>
BST 553	Longitudinal Data Analysis	
BST 557	Survival Data Analysis	
BST 561	Design & Analysis of Clinical Trials	
BST 568	Nonparametric and Semiparametric Models	
BST 622	Advanced Clinical Trials	
BST 624	Advanced Bayesian Analysis	
EPI 801	Causal Inference: Theory	
MATH 610	Probability Theory I	
MATH 611	Probability Theory II	
MATH 612	Topics in Probability Theory	
<b>Selectives (Choose two)</b>		<b>6.0</b>
BST 558	Applied Multivariate Analysis	
EPI 558	Making Sense of Data	
EPI 564	Data Science Using R	
or EPI 864	Data Science Using R	
HMP 703	Introduction to GIS for Public Health	
MATH 525	Topics in Computer Simulation	
<b>Total Credits</b>		<b>90.0</b>

\* If you come into the PhD program with a master's degree (in a related field, as determined by the PhD Biostatistics Admissions Committee), the first 45 credits in the program will be waived.

^ Students who do not have a degree from a CEPH Accredited school will be required to take PBHL 501.

### Sample Plan of Study

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
BST 869	4.0 BST 751	3.0 BST 804	3.0 Written Qualifying Exam	
EPI 570	3.0 BST 825	3.0 BST 823	3.0	
MATH 510	3.0 BST 870	4.0 BST 851	3.0	
	<b>10</b>	<b>10</b>	<b>9</b>	<b>0</b>
Second Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
BST 826	1.0 BST 819	3.0 BST 701	3.0 BST 999	3.0
BST 867	3.0 BST 827	1.0 BST 828	1.0 Oral Candidacy Exam	
BST 999	4.0 RCRG 600	0.0 Elective or Selective	3.0	
PBHL 501	0.0 Elective or Selective	3.0 Elective or Selective	3.0	
Elective or Selective	3.0 Elective or Selective	3.0		
	<b>11</b>	<b>10</b>	<b>10</b>	<b>3</b>
Third Year				
Fall	Credits Winter	Credits Spring	Credits	
BST 999	9.0 BST 999	9.0 BST 999	9.0	
	<b>9</b>	<b>9</b>	<b>9</b>	
<b>Total Credits 90</b>				

### Alternative Plan of Study

(If student comes into the PhD program with a master's degree in a related field, as determined by the PhD Biostatistics Admissions Committee)

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
BST 826	1.0 BST 819	3.0 BST 804	3.0 Written Qualifying Exam and Oral Candidacy Exam	
BST 867	3.0 BST 827	1.0 BST 828	1.0	
Elective or Selective	3.0 Elective or Selective	3.0 BST 999	6.0	
Elective or Selective	3.0 Elective or Selective	3.0		
	<b>10</b>	<b>10</b>	<b>10</b>	<b>0</b>
Second Year				
Fall	Credits Winter	Credits Spring	Credits	
BST 999	9.0 BST 825	3.0 BST 823	3.0	
	BST 999	6.0 BST 999	6.0	
	RCRG 600	0.0		
	<b>9</b>	<b>9</b>	<b>9</b>	
<b>Total Credits 57</b>				

## Community Health and Prevention

Major: Community Health and Prevention

Degrees Awarded: Master of Public Health (MPH)

Calendar Type: Quarter

Total Credit Hours: 56.0

Co-op Option: None

Classification of Instructional Programs (CIP) code: 51.2201

Standard Occupational Classification (SOC) code: 11-9111; 21-1091; 21-1094

### About the Program

As a student in Community Health and Prevention, you will learn about the major drivers of community health, obtain the skills you need to design, implement, and evaluate public health interventions, and learn how to improve health through meaningful partnerships with community stakeholders. Community Health and Prevention faculty focus on a range of topics including public health ethics, the individual, social and structural determinants of health, the use of theory to understand health behavior, and the implementation and evaluation of public health interventions and policies. Our students are trained in the application of mixed methods – the use of both quantitative and qualitative approaches in data collection and analysis to understand, promote, and sustain community health. The student's classroom and practical experiences will foster the development of practical skills relevant to obtaining a career in public health upon graduation. Our graduates design, implement, manage, and evaluate health promotion programs and policies. They are leaders in health education, community organization, and advocacy efforts that promote the health of communities in domestic and global settings.

### Major Competencies

- Design, implement, and evaluate theoretically informed and culturally responsive public health interventions that incorporate multi-level frameworks or innovatively combine individual and social change theories derived from public health research and practice
- Apply appropriate qualitative and quantitative mixed-methods for community-oriented research design

- Apply intersectional perspectives derived from theory in response to multi-dimensional processes when conducting community-engaged public health research and practice
- Apply ethical, socially just, and culturally responsive principles and strategies to community organizing, community health assessment, program planning, implementation, and evaluation
- Partner with communities to contextually assess health problems and propose solutions to public health issues and inequities that recognize the role of power
- Advocate for human-rights-based values in public health research, practice, and policy

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website (<https://drexel.edu/dornsife/>) including how to apply.

## Degree Requirements

### Requirements

PBHL 500	Practical Experience for the Master of Public Health	0.0
<b>MPH Foundation Courses</b>		
EPI 570	Introduction to Epidemiology ***	3.0
BST 571	Introduction to Biostatistics ***	3.0
HMP 505	Qualitative Data and Mixed Methods Analysis ***	2.0
PBHL 510	Public Health Foundations and Systems I	4.0
PBHL 511	Public Health Foundations and Systems II	4.0
<b>CHP Foundation Courses</b>		
Required courses		
CHP 500	Behavior and Social Change Theories	3.0
CHP 501	Community Engagement in Public Health Practice & Research	3.0
CHP 503	Multi-Method Data Analysis in Community Health & Prevention	4.0
CHP Depth (Choose TWO classes from the list below)		6.0
CHP 560	Design and Grant Writing for Community Health Programs	
CHP 605	Outcomes and Impact Evaluation	
CHP 672	Theory and Practice in Health Communication	
CHP 673	Process Monitoring and Outcomes Evaluation for Community Health Programs	
<b>CHP Integrated Learning Experience</b>		
CHP 750	Integrative Learning Experience in Community Health & Prevention I	3.0
CHP 751	Integrative Learning Experience in Community Health & Prevention II	3.0
<b>CHP Electives/Graduate Minors</b>		
Methods Elective *		3.0
Electives/Graduate Minor **		15.0
<b>Community Health and Prevention Electives</b>		
CHP 516	History of Public Health	
CHP 517	Overview of Maternal and Child Health	
CHP 518	Global Issues in Maternal and Child Health	
CHP 540	Prevention Principles and Practices	
CHP 607	Public Health Ethics	
CHP 608	Animals and Public Health	
CHP 650	Drug Use and Public Health	
CHP 670	Multicultural Competence in Community Health and Prevention	
CHP 671	Community Organizing and Community Assessment for Health and Wellness	

CHP 681	Research with Rare, Stigmatized and Hidden Populations
CHP 682	LGBT Health Disparities
CHP 683	Intersectional Perspectives
CHP 691	Public Health Practice in and with Latino Communities
CHP 692	Migration and Health
CHP 705	Religion, Spirituality, and Health
CHP 802	Theory & Practice of Community Health and Prevention II
CHP 803	Research Methods for Community Health and Prevention
CHP 804	Qualitative Research in Community Health
CHP 806	Community Based Participatory Research
CHP 808	Measuring Health
CHP 815	Advanced Topics in Qualitative Analysis & Manuscript Development
CHP T580	Special Topics in Community Health & Prevention
CHP T680	Special Topics in Community Health & Prevention

### Biostatistics Electives

BST 557	Survival Data Analysis
BST 558	Applied Multivariate Analysis
BST 560	Intermediate Biostatistics I

### Environmental and Occupational Health Electives

EOH 560	Overview of Issues in Global Health
EOH 642	Healthy Housing & Built Environment
EOH 646	Environmental Health in Vulnerable Populations
EOH 648	Public Health and Disaster Preparedness
EOH 649	Occupational and Environmental Cancers
EOH 655	Infection Prevention and Control in the Healthcare Environment
EOH 657	Public Health Impacts of Global Climate Change
EOH 658	Crisis and Risk Communication in Public Health
EOH 665	Quantitative Risk Analysis for Environmental Health

### Epidemiology Electives

EPI 551	Epidemiology of Cancer
EPI 553	Infectious Disease Epidemiology
EPI 557	Cardiovascular Disease Epidemiology & Prevention
EPI 558	Making Sense of Data
EPI 559	Pharmacoepidemiology
EPI 561	Pathophysiologic Basis of Epidemiologic Research

### Health Management and Policy Electives

HMP 500	Health Management and Policy I
HMP 501	Health Management and Policy II
HMP 510	Evolution of United States Health Policy
HMP 511	Legal Aspects of Public Health
HMP 512	The Business of Healthcare: Advanced Healthcare Financial Management
HMP 513	Healthcare Planning Principles and Practice
HMP 514	Policy Analysis for Population Health
HMP 515	Health Organizational Leadership
HMP 516	Health Care Organizations and Management
HMP 550	Health Disparities: Systemic, Structural, Environmental & Economic
HMP 551	Historical and Contemporary Developments in Social Justice
HMP 552	Perspectives on Gender, Race, Ethnicity, and Social Class
HMP 554	Issues in United States Health Policy
HMP 555	Violence, Trauma and Adversity in Public Health
HMP 556	Public Health Leadership
HMP 600	Public Health Advocacy and Activism
HMP 601	Seminar in Fire Arms and Public Health
HMP 602	The Politics of Food & Gender
HMP 603	Health Systems Policy Analysis
HMP 650	Management of Healthcare Outcomes
HMP 651	Managing a Public Health Agency
HMP 652	Change Management in Public Health
HMP 653	Fundamentals of Disaster Management

HMP 654	Public Health Funding & Program Development
HMP 655	Coordinating a Population's Care
HMP 701	Health Care Data Analytics
HMP 703	Introduction to GIS for Public Health
HMP 802	Health and Human Rights
HMP 815	Cost Benefit Analysis for Health Services
HMP 820	Methods in Implementation Science
HMP 852	Health Economics I
HMP 853	Health Economics II

**Total Credits 56.0**

\* Students can take a methods class at the masters or doctoral level from across the university with approval of graduate and faculty advisor. 800-level courses may require professor's permission.

\*\* Students have an additional 15.0 credits worth of electives and can use these to further focus their academic work by completing a graduate minor

\*\*\* EPI 570, BST 571 and HMP 505 may be replaced with PBHL 512, PBHL 513.

## Sample Plan of Study (MPH) 12 Months (4 Quarter) Full-Time

	Summer	Credits
EPI 570		3.0
BST 571		3.0
HMP 505		2.0
PBHL 510		4.0
PBHL 511		4.0
		<b>16</b>

### First Year

Fall	Credits Winter	Credits Spring	Credits
CHP 500	3.0 CHP 501	3.0 CHP 503	4.0
PBHL 500	0.0 CHP 750	3.0 CHP 751	3.0
Depth/ Method/ Electives	12.0 Depth/ Method/ Electives	6.0 Depth/ Method/ Electives	6.0
		<b>15</b>	<b>13</b>

**Total Credits 56**

## 18 Months (5 Quarter) Full-Time

### First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
CHP 500	3.0 BST 571	3.0 CHP 503	4.0 PBHL 500	0.0
EPI 570	3.0 CHP 501	3.0 HMP 505	2.0	
PBHL 510	4.0 PBHL 511	4.0 CHP Depth/ Elective/ Minors	6.0	
		<b>10</b>	<b>10</b>	<b>12</b>
				<b>0</b>

### Second Year

Fall	Credits Winter	Credits
CHP 750	3.0 CHP 751	3.0
CHP	9.0 CHP	9.0
Depth/ Elective/ Minors	Depth/ Elective/ Minors	
		<b>12</b>
		<b>12</b>

**Total Credits 56**

## 21 Month (6 Quarter) Full-Time

### First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
CHP 500	3.0 BST 571	3.0 CHP 503	4.0 PBHL 500	0.0
EPI 570	3.0 CHP 501	3.0 HMP 505	2.0	
PBHL 510	4.0 PBHL 511	4.0 Depth/ Method/ Elective	3.0	
		<b>10</b>	<b>10</b>	<b>9</b>
				<b>0</b>

### Second Year

Fall	Credits Winter	Credits Spring	Credits
Depth/ Method/ Electives	9.0 CHP 750	3.0 CHP 751	3.0
		6.0 Depth/ Method/ Electives	6.0
		<b>9</b>	<b>9</b>

**Total Credits 56**

## Community Health and Prevention PhD

*Major: Community Health and Prevention*

*Degree Awarded: Doctor of Philosophy (PhD)*

*Calendar Type: Quarter*

*Total Credit Hours: 90.0*

*Co-op Option: None*

*Classification of Instructional Programs (CIP) code: 51.2212*

*Standard Occupational Classification (SOC) code: 25-1099*

## About the Program

The Doctor of Philosophy degree in Community Health and Prevention will prepare doctoral-level public health graduates who have a broad-based, systemic understanding of public health scholarship related to the social and behavioral determinants of health and illness, and the ability to conduct original research to advance this understanding to benefit the public's health. The program emphasizes the application of interdisciplinary, theoretical, and applied research paradigms to the understanding and prevention of public health problems. Graduates will be prepared to contribute and lead as public health scientists, researchers, educators, and professionals in a broad range of academic, policy, and service settings both in the United States and globally.

The Doctor of Philosophy degree shares many common elements with the DrPH degree. It consists of *both required and elective coursework*, building the student's individual expertise from a wide range of scientific disciplines, methodologic frameworks, and public health challenges. The *comprehensive exam* requires students to synthesize coursework and demonstrate mastery of core public health competencies. Students complete a *mentored research experience* with faculty before developing their own *dissertation proposal* and completing their *dissertation*. Students may choose either the traditional thesis format or the three manuscript option.

## Major Competencies

- Analyze the social and behavioral determinants of health and illness at the individual, community, and societal levels, and the mechanisms required to design and evaluate interventions at all levels to improve health and address health inequity.

- Develop and apply theoretical frameworks to formulate research questions relevant to the above areas of scholarship.
- Use a broad range of methodological approaches to design and conduct research addressing these research questions with the highest ethical standards.
- Disseminate findings to a wide range of stakeholders and engage in both scientifically rigorous and socially responsible processes to translate findings to improve the health of the public.
- Develop a strong professional identity and prepare to contribute meaningfully in a career as a scientist, administrator, and/or educator, to ensure the continued impact of the social and behavioral sciences in public health.

### Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

### Degree Requirements

Required Courses		
BST 560	Intermediate Biostatistics I	3.0
EPI 560	Intermediate Epidemiology	3.0
PBHL 501	Introduction to Public Health	0.0
<b>Additional Introductory Coursework, if needed*</b>		<b>3.0-6.0</b>
BST 555	Introduction to Statistical Computing	
BST 571	Introduction to Biostatistics	
EPI 500	Introduction to Epidemiology and Biostatistics	
EPI 570	Introduction to Epidemiology	
Community Health and Prevention		
CHP 801	Theory & Practice of Community Health & Prevention I	3.0
CHP 802	Theory & Practice of Community Health and Prevention II	3.0
CHP 803	Research Methods for Community Health and Prevention	3.0
CHP 804	Qualitative Research in Community Health	3.0
CHP 805	Outcomes and Impact Evaluation	3.0
CHP 806	Community Based Participatory Research	3.0
CHP 807	Public Health Ethics	3.0
CHP 808	Measuring Health	3.0
Doctoral Seminar		
CHP 904	Doctoral Seminar in Community Health and Prevention **	6.0
Dissertation		
		<b>27.0</b>
CHP 901	Dissertation Seminar I	
CHP 903	Advanced Proposal Development	
CHP 999	Dissertation Guidance ***	
Elective Coursework †		<b>24.0</b>
Social Factors/Behavioral Sciences/Communications Electives		
CCM 703	Communication Theory II: Discourse and Semiotics	
CCM 777	Communication Network Analysis	
HMP 514	Policy Analysis for Population Health	
HMP 550	Health Disparities: Systemic, Structural, Environmental & Economic	
Biostatistics/Methodological Electives		
BST 557	Survival Data Analysis	
BST 558	Applied Multivariate Analysis	
EPI 550	Applied Survey Research in Epidemiology	
HMP 703	Introduction to GIS for Public Health	

Public Health or Topical Area Electives	
EPI 557	Cardiovascular Disease Epidemiology & Prevention
NFS 546	World Nutrition
<b>Total Credits</b>	<b>90.0-93.0</b>

- \* Students entering with prior training in Biostatistics and Epidemiology may waive these courses with consent of advisor and program director. Students without this prior background will select either EPI 570 and BST 571 or EPI 500, with guidance from the Program Director. BST 555 *Statistical Computing* may be recommended for students who choose to have formal instruction in SAS.
- \*\* Repeated for credit six times
- \*\*\* Students are required to complete a minimum of 21.0 credits of CHP 999.
- † In consultation with their faculty advisor, students will choose the required number of electives in each of the three areas identified above. Courses must be graduate coursework in the Department of Community Health and Prevention, other departments at Dornsife School of Public Health, or in other Schools and Colleges at Drexel. It is important to note that the courses listed are merely examples as a complete listing of the possible selections is too large to include here.

### Sample Plan of Study

#### Sample Plan - Option I

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
CHP 801	3.0 CHP 802	3.0 BST 560	3.0 CHP 901	3.0
CHP 808	3.0 CHP 803	3.0 CHP 804	3.0 CHP 904	1.0
CHP 904	1.0 CHP 805	3.0 CHP 806	3.0 Elective	6.0
EPI 560	3.0 CHP 904	1.0 CHP 904	1.0	
PBHL 501 †	0.0			
<b>10</b>		<b>10</b>	<b>10</b>	<b>10</b>
Second Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
CHP 903	3.0 CHP 807	3.0 CHP 999	3.0 CHP 999	3.0-9.0
CHP 904	1.0 CHP 904	1.0 Elective	6.0 Elective	3.0
Electives	6.0 Electives	6.0		
<b>10</b>		<b>10</b>	<b>9</b>	<b>6-12</b>
Third Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
CHP 999	6.0-9.0 CHP 999	3.0-9.0 CHP 999	3.0-9.0 CHP 999	3.0-9.0
<b>6-9</b>		<b>3-9</b>	<b>3-9</b>	<b>3-9</b>
<b>Total Credits 90-117</b>				

\* PBHL 501 can be taken any quarter in the first year.

#### Sample Plan - Option II

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
CHP 801	3.0 CHP 802	3.0 BST 560	3.0 CHP 901	3.0
CHP 808	3.0 CHP 803	3.0 EPI 560	3.0 CHP 904	1.0
CHP 904	1.0 CHP 904	1.0 CHP 804	3.0 Elective	6.0
Elective	3.0 EPI 500	3.0 CHP 904	1.0	
<b>10</b>		<b>10</b>	<b>10</b>	<b>10</b>
Second Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
CHP 805	3.0 CHP 807	3.0 CHP 999	3.0 CHP 999	3.0-9.0
CHP 903	3.0 CHP 904	1.0 Elective	6.0 Elective	3.0
CHP 904	1.0 CHP 806	3.0		

Elective	3.0 Elective	3.0		
	10	10	9	6-12
<b>Third Year</b>				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
CHP 999	6.0-9.0 CHP 999	3.0-9.0 CHP 999	3.0-9.0 CHP 999	3.0-9.0
	6-9	3-9	3-9	3-9
<b>Total Credits 90-117</b>				

## Sample Plan - Option III

<b>First Year</b>				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
CHP 801	3.0 BST 571	3.0 BST 560	3.0 CHP 901	3.0
CHP 808	3.0 CHP 802	3.0 CHP 804	3.0 CHP 904	1.0
CHP 904	1.0 CHP 803	3.0 CHP 904	1.0 Elective	6.0
EPI 570	3.0 CHP 904	1.0 EPI 560	3.0	
	10	10	10	10
<b>Second Year</b>				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
CHP 805	3.0 CHP 806	3.0 CHP 999	3.0 CHP 999	3.0-9.0
CHP 903	3.0 CHP 807	3.0 Elective	6.0 Elective	3.0
CHP 904	1.0 CHP 904	1.0		
Elective	3.0 Elective	3.0		
	10	10	9	6-12
<b>Third Year</b>				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
CHP 999	3.0-9.0 CHP 999	6.0-9.0 CHP 999	3.0-9.0 CHP 999	3.0-9.0
	3-9	6-9	3-9	3-9
<b>Total Credits 90-117</b>				

# Environmental & Occupational Health

*Major: Environmental and Occupational Health*

*Degree Awarded: Master of Public Health (MPH)*

*Calendar Type: Quarter*

*Total Credit Hours: 56.0*

*Co-op Option: None*

*Classification of Instructional Programs (CIP) code: 51.2202*

*Standard Occupational Classification (SOC) code: 19-2041*

## About the Program

As a student in Environmental and Occupational Health, you will learn how to assess and monitor environmental and occupational exposures and to understand their health consequences. You will work alongside our faculty to investigate and act on the environmental determinants of health, including climate change and exposure to air pollution, pesticides, or other substances. You will learn how to make housing healthier, to promote health and prevent injuries in the workplace, to enhance access to clean water, and to prepare for public health emergencies around the globe. Opportunities in this field include application of environmental and occupational health principles to protect and promote the health of populations in homes, communities, and workplace settings.

## Major Competencies:

- Assess pathways of human exposure to hazardous agents and stressors in the environment and workplace.
- Investigate and synthesize research on hazardous agents and their impacts on human health effects, including how individual and population factors affect vulnerability.

- Evaluate epidemiologic methods used in occupational and environmental research and interpret findings.
- Select and apply appropriate quantitative risk assessment methods.
- Recommend strategies for preventing, controlling, and managing risks from environmental and occupational hazards.
- Analyze environmental and occupational health policies in relation to environmental justice, equity, and efficacy.

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team

Office of Education

[dsphadvising@drexel.edu](mailto:dsphadvising@drexel.edu)

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

<b>MPH Foundation Courses</b>		<b>16.0</b>
BST 571	Introduction to Biostatistics	
EPI 570	Introduction to Epidemiology	
HMP 505	Qualitative Data and Mixed Methods Analysis	
PBHL 510	Public Health Foundations and Systems I	
PBHL 511	Public Health Foundations and Systems II	
<b>EOH Foundation Courses</b>		<b>18.0</b>
EOH 510	Principles and Practice of Environmental and Occupational Health	
EOH 610	Environmental and Occupational Toxicology	
EOH 612	Environmental Exposure Science	
EOH 615	Environmental and Occupational Health Policy	
EOH 625	Occupational and Environmental Epidemiology	
EOH 665	Quantitative Risk Analysis for Environmental Health	
<b>Integrative Learning Experience</b>		<b>3.0</b>
EOH 750	Integrative Learning Experience: Environmental and Occupational Health I	
EOH 751	Integrative Learning Experience: Environmental and Occupational Health II	
<b>Applied Practical Experience</b>		<b>0.0</b>
PBHL 500	Practical Experience for the Master of Public Health	
<b>Electives*</b>		<b>19.0</b>
These courses may be within the Dornsife School of Public Health, or from other academic units within the University. Students may choose to use their elective credits to complete a graduate minor. Students must meet with their Graduate Advisor to select electives and/or a graduate minor. It is the responsibility of the student to determine course restrictions for electives. The following is a sample of some of the Dornsife School of Public Health electives offered by department:		
<b>Biostatistics Electives</b>		
BST 555	Introduction to Statistical Computing	
BST 559	Intermediate SAS	
BST 560	Intermediate Biostatistics I	
BST 567	Statistical Consulting	
<b>Community Health and Prevention Electives</b>		
CHP 500	Behavior and Social Change Theories	
CHP 501	Community Engagement in Public Health Practice & Research	
CHP 503	Multi-Method Data Analysis in Community Health & Prevention	
CHP 516	History of Public Health	
CHP 517	Overview of Maternal and Child Health	
CHP 518	Global Issues in Maternal and Child Health	
CHP 540	Prevention Principles and Practices	
CHP 550	Community Based Prevention Practices	

CHP 605	Outcomes and Impact Evaluation
CHP 607	Public Health Ethics
CHP 608	Animals and Public Health
CHP 650	Drug Use and Public Health
CHP 670	Multicultural Competence in Community Health and Prevention
CHP 671	Community Organizing and Community Assessment for Health and Wellness
CHP 672	Theory and Practice in Health Communication
CHP 673	Process Monitoring and Outcomes Evaluation for Community Health Programs
CHP 681	Research with Rare, Stigmatized and Hidden Populations
CHP 682	LGBT Health Disparities
CHP 683	Intersectional Perspectives
CHP 691	Public Health Practice in and with Latino Communities
CHP 692	Migration and Health
CHP 705	Religion, Spirituality, and Health
CHP 802	Theory & Practice of Community Health and Prevention II
CHP 803	Research Methods for Community Health and Prevention
CHP 804	Qualitative Research in Community Health
CHP 806	Community Based Participatory Research
CHP 808	Measuring Health
CHP 815	Advanced Topics in Qualitative Analysis & Manuscript Development

**Environmental and Occupational Health Electives**

EOH 550	Introduction to Urban Health
EOH 560	Overview of Issues in Global Health
EOH 563	Injury Prevention and Control
EOH 564	Safety in Healthcare
EOH 580	Fundamentals of Industrial Hygiene
EOH 642	Healthy Housing & Built Environment
EOH 646	Environmental Health in Vulnerable Populations
EOH 648	Public Health and Disaster Preparedness
EOH 649	Occupational and Environmental Cancers
EOH 650	Microbes in Public Health Practice I: Overview of Bacterial Pathogens
EOH 651	Microbes in Public Health Practice II: Overview of Viral and Other Pathogens
EOH 655	Infection Prevention and Control in the Healthcare Environment
EOH 657	Public Health Impacts of Global Climate Change
EOH 658	Crisis and Risk Communication in Public Health
EOH 665	Quantitative Risk Analysis for Environmental Health
EOH 710	Advanced Methods in GIS for Public Health
EOH 725	Seminar in Environmental Epidemiology

**Epidemiology Electives**

EPI 550	Applied Survey Research in Epidemiology
EPI 551	Epidemiology of Cancer
EPI 552	Epidemiology for Public Health Practice
EPI 553	Infectious Disease Epidemiology
EPI 556	Perinatal Epidemiology
EPI 557	Cardiovascular Disease Epidemiology & Prevention
EPI 558	Making Sense of Data
EPI 559	Pharmacoepidemiology
EPI 560	Intermediate Epidemiology
EPI 561	Pathophysiologic Basis of Epidemiologic Research
EPI 562	The Changing US HIV Epidemic and the Responses of Affected Communities
EPI 563	Interprofessional Collaboration for Urban Health
EPI 564	Data Science Using R
EPI 569	Disease Outbreak Investigations
EPI 573	Autism as a Public Health Challenge
EPI 610	Public Health Surveillance
EPI 677	Health and Design Research

**Health Management and Policy Electives**

HMP 500	Health Management and Policy I
HMP 501	Health Management and Policy II
HMP 510	Evolution of United States Health Policy
HMP 511	Legal Aspects of Public Health
HMP 512	The Business of Healthcare: Advanced Healthcare Financial Management
HMP 513	Healthcare Planning Principles and Practice
HMP 514	Policy Analysis for Population Health
HMP 515	Health Organizational Leadership
HMP 516	Health Care Organizations and Management
HMP 550	Health Disparities: Systemic, Structural, Environmental & Economic
HMP 551	Historical and Contemporary Developments in Social Justice
HMP 552	Perspectives on Gender, Race, Ethnicity, and Social Class
HMP 554	Issues in United States Health Policy
HMP 555	Violence, Trauma and Adversity in Public Health
HMP 556	Public Health Leadership
HMP 600	Public Health Advocacy and Activism
HMP 601	Seminar in Fire Arms and Public Health
HMP 602	The Politics of Food & Gender
HMP 603	Health Systems Policy Analysis
HMP 650	Management of Healthcare Outcomes
HMP 651	Managing a Public Health Agency
HMP 653	Fundamentals of Disaster Management
HMP 654	Public Health Funding & Program Development
HMP 655	Coordinating a Population's Care
HMP 656	Organizational Finance Seminar: Case Studies in Health Care
HMP 657	Health Care Strategy and Operations: Creating Change
HMP 701	Health Care Data Analytics
HMP 703	Introduction to GIS for Public Health
HMP 704	Using Data to Drive Policy and Practice
HMP 802	Health and Human Rights
HMP 810	Health Services Research
HMP 812	Qualitative Methods for Health Policy Research and Practice
HMP 815	Cost Benefit Analysis for Health Services
HMP 820	Methods in Implementation Science
HMP 852	Health Economics I
HMP 853	Health Economics II

**Total Credits** **56.0**

\* 800 level courses may require professor's permission

## Sample Plan of Study 12 Months (4 Quarter) Full-Time

**First Year**

	<b>Summer</b>	<b>Credits</b>
	BST 571	3.0
	EPI 570	3.0
	HMP 505	2.0
	PBHL 510	4.0
	PBHL 511	4.0
		<b>16</b>

**Second Year**

<b>Fall</b>	<b>Credits</b>	<b>Winter</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
EOH 510	3.0	EOH 610	3.0	EOH 612	3.0
EOH 625	3.0	EOH 665	3.0	EOH 615	3.0
PBHL 500	0.0	EOH 750	0.0	EOH 751	3.0
Electives	9.0	Electives	6.0	Electives	4.0
		<b>15</b>	<b>12</b>	<b>13</b>	

**Total Credits 56**

## 18 Months (5 Quarter) Full-Time

### First Year

Fall	Credits Winter	Credits Spring	Credits
EOH 510	3.0 BST 571*	3.0 EOH 612	3.0
EPI 570*	3.0 EOH 610	3.0 EOH 615	3.0
PBHL 510	4.0 PBHL 511	4.0 HMP 505*	2.0
	Elective	3.0 PBHL 500	0.0
		Elective	1.0
	<b>10</b>	<b>13</b>	<b>9</b>

### Second Year

Fall	Credits Winter	Credits
EOH 625	3.0 EOH 665	3.0
EOH 750	0.0 EOH 751	3.0
Electives	9.0 Electives	6.0
	<b>12</b>	<b>12</b>

Total Credits 56

\* EPI 570, BST 571 and HMP 505 may be replaced with PBHL 512 and PBHL 513 for the 18-month plan of study.

## 21 Months (6 Quarter) Full-Time

### First Year

Fall	Credits Winter	Credits Spring	Credits
EOH 510	3.0 BST 571	3.0 EOH 612	3.0
EPI 570	3.0 EOH 610	3.0 EOH 615	3.0
PBHL 510	4.0 PBHL 511	4.0 HMP 505	2.0
		PBHL 500	0.0
		Elective	1.0
	<b>10</b>	<b>10</b>	<b>9</b>

### Second Year

Fall	Credits Winter	Credits Spring	Credits
EOH 625	3.0 EOH 665	3.0 EOH 751	3.0
Electives	6.0 EOH 750	0.0 Elective	3.0
	Electives	6.0 Elective	3.0
	<b>9</b>	<b>9</b>	<b>9</b>

Total Credits 56

# Environmental & Occupational Health

Major: Environmental and Occupational Health

Degree Awarded: Doctor of Philosophy (PhD)

Calendar Type: Quarter

Total Credit Hours: 90.0

Co-op Option: None

Classification of Instructional Programs (CIP) code: 51.2202

Standard Occupational Classification (SOC) code: 19-2041

## About the Program

The Doctor of Philosophy in Environmental and Occupational Health will equip students with the skills to identify, examine, and respond to important environmental and occupational health challenges and to disseminate and translate findings. Students will benefit from engagement with the Department of Environmental and Occupational Health's interdisciplinary faculty and the Dornsife School of Public Health's emphasis on urban health and social justice. Students complete core Environmental and Occupational Health classes with an opportunity to specialize in areas such as environmental epidemiology, injury prevention and control, occupational health and safety, industrial hygiene,

or exposure assessment. This program trains students with the skills necessary to perform scientifically rigorous research to address pressing environmental and occupational health issues. Graduates of the program are well prepared to assume leadership roles as public health scientists, researchers, and educators.

### Post-Baccalaureate Requirements and Post-Master's Requirements

Both post-baccalaureate and post-master's students are admitted into the doctoral program in Environmental and Occupational Health. All students must complete nine departmental required PhD courses and a minimum of nine electives which are selected with faculty mentor guidance and approval. Remaining credits come from dissertation guidance credits. PhD students are required to complete the TA Orientation and Preparation Course and the Responsible Conduct of Research Course. PBHL 501 is a required prerequisite course for students who do not have a degree from a CEPH-accredited school.

For post-master's students, 45.0 of the credits that they earned toward their master's degree may be applied toward the PhD. Students who have previously completed required courses at Drexel University (or their approved equivalents) as part of their master's program may be waived from the required courses. For non-Drexel students who have completed their master's elsewhere, all courses will be evaluated to determine equivalency to the required courses. Students may be asked to provide evidence of such material to determine equivalency. Students who are approved to waive out of required classes will be provided with the course materials in order to prepare for the comprehensive exam.

The decision to waive or require these courses for both Drexel and non-Drexel students is done in consultation with the faculty mentor and PhD program director with consideration of several factors including time since course completion, grade in course, and current comfort level with material.

For post-baccalaureate students, students must complete a minimum of 90.0 credits.

## Major Competencies

- Evaluate basic principles related to environmental and occupational exposure assessment, including sources and characteristics of exposures, mechanisms, and methods for measuring and examining physical, chemical, biological, psychosocial, and/or other exposures potentially related to human health
- Analyze relationships between exposures and human health, including variation in impacts by social, behavioral, psychosocial, and other susceptibility factors
- Critically evaluate and interpret published research in environmental and occupational health from academic journals and other sources
- Formulate testable hypotheses about critical knowledge and evidence gaps in environmental and occupational health
- Develop and implement valid and reproducible study designs, including data collection strategies to test hypotheses using novel or current methods
- Apply appropriate and rigorous methods to analyze and interpret original data
- Communicate research results through scientific manuscripts, presentations, and other forms to both scientific and lay audiences
- Assess risks associated with physical, chemical, psychosocial, or other exposures in environmental or occupational settings, and



identify appropriate policies and other interventions for preventing or reducing these risks

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

### Required Courses

BST 560	Intermediate Biostatistics I	3.0
EOH 800	Professional Development	3.0
EOH 805	Evidence Evaluation for Identification of Environmental Hazards	3.0
EOH 810	Environmental and Occupational Toxicology	3.0
EOH 812	Environmental Exposure Science	3.0
EOH 815	Environmental and Occupational Health Policy	3.0
EOH 825	Occupational and Environmental Epidemiology	3.0
EOH 830	Seminar in Environmental Epidemiology	3.0
EPI 560	Intermediate Epidemiology	3.0

**Electives** **27.0**

Students are required to consult with their faculty mentor on all elective selections. Elective coursework must be aligned with the student's research interests and dissertation focus.

**Dissertation** **36.0-54.0**

EOH 997	Dissertation Guidance in Environmental and Occupational Health	
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**Total Credits** **90.0-108.0**

PhD students are required to complete the TA Orientation and Preparation Course and the Responsible Conduct of Research Course RCRG 600.

Introductory Public Health Learning Objectives: PBHL 501 is a required prerequisite course for students who do not have a degree from a CEPH accredited school.

## Sample Plan of Study

### First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EOH 825	3.0 EOH 810	3.0 BST 560	3.0 VACATION	
EPI 560	3.0 EOH 830	3.0 EOH 805	3.0	
Elective	3.0 Elective	3.0 EOH 812	3.0	
	<b>9</b>	<b>9</b>	<b>9</b>	<b>0</b>

### Second Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EOH 800	3.0 Electives	9.0 EOH 815	3.0 VACATION	
Electives	6.0	Electives	6.0	
	<b>9</b>	<b>9</b>	<b>9</b>	<b>0</b>

### Third Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EOH 997	9.0 EOH 997	9.0 EOH 997	9.0 VACATION	
	<b>9</b>	<b>9</b>	<b>9</b>	<b>0</b>

### Fourth Year

**Fall** **Credits**

EOH 997 9.0

**9**

**Total Credits 90**

PhD students are required to complete the TA Orientation and Preparation Course and the Responsible Conduct of Research Course. Introductory Public Health Learning Objectives: PBHL 501 is a required prerequisite course for students who do not have a degree from a CEPH accredited school.

## Environmental and Occupational Health Sciences

*Major: Environmental and Occupational Health Sciences*

*Degree Awarded: Master of Science (MS)*

*Calendar Type: Quarter*

*Total Credit Hours: 45.0*

*Co-op Option: None*

*Classification of Instructional Programs (CIP) code: 51.2202*

*Standard Occupational Classification (SOC) code: 19-2041*

## About the Program

The Master of Science in Environmental and Occupational Health Sciences will equip students with the knowledge and skills to identify and answer important questions regarding influences of the physical environment on human health and to disseminate those findings. Students will undergo rigorous training in the research methods that are required to address key questions related to generating evidence on how the environment influences health with a focus on modifiable features of the environment that can be considered for policy interventions.

The program can be seen as both a stepping stone towards a career as an independent researcher and as a deepening of professional competencies required to occupy a leadership position in environmental and occupational health in government, academic, private industry, or a non-profit organization.

## Major Competencies:

- Assess pathways of human exposure to hazardous agents and stressors in the environment and workplace
- Investigate and synthesize research on hazardous agents and their impacts on human health effects, including how individual and population factors affect vulnerability
- Evaluate epidemiologic methods used in occupational and environmental research and interpret findings
- Formulate testable hypotheses about critical knowledge and evidence gaps in environmental and occupational health
- Apply appropriate study designs, data collection strategies, and analytical methods to test scientific hypotheses
- Communicate research findings and evidence through scientific manuscripts, presentations, and other forms to both scientific and lay audiences

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dspadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

### Required Courses

BST 571	Introduction to Biostatistics	3.0
EOH 510	Principles and Practice of Environmental and Occupational Health *	3.0
EOH 605	Evidence Evaluation for Identification of Environmental Hazards	3.0
EOH 610	Environmental and Occupational Toxicology	3.0
EOH 612	Environmental Exposure Science	3.0
EOH 625	Occupational and Environmental Epidemiology	3.0
EOH 725	Seminar in Environmental Epidemiology	3.0
EOH 799	Master of Science Thesis Research in Environmental and Occupational Health Sciences	9.0
EPI 561	Pathophysiologic Basis of Epidemiologic Research	3.0
EPI 570	Introduction to Epidemiology	3.0
Electives **		9.0

These courses may be within the Dornsife School of Public Health, or from other academic units within the University. It is the responsibility of the student to determine course restrictions for electives. The following is a sample of some of the Dornsife School of Public Health electives offered by department:

### Community Health and Prevention Electives

CHP 500	Behavior and Social Change Theories
CHP 501	Community Engagement in Public Health Practice & Research
CHP 503	Multi-Method Data Analysis in Community Health & Prevention
CHP 516	History of Public Health
CHP 517	Overview of Maternal and Child Health
CHP 518	Global Issues in Maternal and Child Health
CHP 540	Prevention Principles and Practices
CHP 550	Community Based Prevention Practices
CHP 605	Outcomes and Impact Evaluation
CHP 607	Public Health Ethics
CHP 608	Animals and Public Health
CHP 650	Drug Use and Public Health
CHP 670	Multicultural Competence in Community Health and Prevention
CHP 671	Community Organizing and Community Assessment for Health and Wellness
CHP 672	Theory and Practice in Health Communication
CHP 673	Process Monitoring and Outcomes Evaluation for Community Health Programs
CHP 681	Research with Rare, Stigmatized and Hidden Populations
CHP 682	LGBT Health Disparities
CHP 683	Intersectional Perspectives
CHP 691	Public Health Practice in and with Latino Communities
CHP 692	Migration and Health
CHP 705	Religion, Spirituality, and Health
CHP 802	Theory & Practice of Community Health and Prevention II
CHP 803	Research Methods for Community Health and Prevention
CHP 804	Qualitative Research in Community Health
CHP 806	Community Based Participatory Research
CHP 808	Measuring Health
CHP 815	Advanced Topics in Qualitative Analysis & Manuscript Development

### Environmental and Occupational Health Electives

EOH 560	Overview of Issues in Global Health
EOH 563	Injury Prevention and Control

EOH 564	Safety in Healthcare
EOH 615	Environmental and Occupational Health Policy
EOH 642	Healthy Housing & Built Environment
EOH 646	Environmental Health in Vulnerable Populations
EOH 648	Public Health and Disaster Preparedness
EOH 649	Occupational and Environmental Cancers
EOH 650	Microbes in Public Health Practice I: Overview of Bacterial Pathogens
EOH 651	Microbes in Public Health Practice II: Overview of Viral and Other Pathogens
EOH 655	Infection Prevention and Control in the Healthcare Environment
EOH 657	Public Health Impacts of Global Climate Change
EOH 658	Crisis and Risk Communication in Public Health
EOH 665	Quantitative Risk Analysis for Environmental Health
Epidemiology and Biostatistics Electives	
BST 553	Longitudinal Data Analysis
BST 555	Introduction to Statistical Computing
BST 557	Survival Data Analysis
BST 559	Intermediate SAS
BST 560	Intermediate Biostatistics I
BST 561	Design & Analysis of Clinical Trials
BST 567	Statistical Consulting
BST 569	Linear Statistical Models
BST 570	Generalized Linear Models
BST 620	Intermediate Biostatistics II
EPI 550	Applied Survey Research in Epidemiology
EPI 551	Epidemiology of Cancer
EPI 552	Epidemiology for Public Health Practice
EPI 553	Infectious Disease Epidemiology
EPI 556	Perinatal Epidemiology
EPI 557	Cardiovascular Disease Epidemiology & Prevention
EPI 558	Making Sense of Data
EPI 559	Pharmacoepidemiology
EPI 560	Intermediate Epidemiology
EPI 564	Data Science Using R
EPI 573	Autism as a Public Health Challenge
EPI 677	Health and Design Research
EPI 801	Causal Inference: Theory
Health Management and Policy Electives	
HMP 500	Health Management and Policy I
HMP 501	Health Management and Policy II
HMP 510	Evolution of United States Health Policy
HMP 511	Legal Aspects of Public Health
HMP 512	The Business of Healthcare: Advanced Healthcare Financial Management
HMP 513	Healthcare Planning Principles and Practice
HMP 514	Policy Analysis for Population Health
HMP 515	Health Organizational Leadership
HMP 516	Health Care Organizations and Management
HMP 550	Health Disparities: Systemic, Structural, Environmental & Economic
HMP 551	Historical and Contemporary Developments in Social Justice
HMP 552	Perspectives on Gender, Race, Ethnicity, and Social Class
HMP 554	Issues in United States Health Policy
HMP 556	Public Health Leadership
HMP 600	Public Health Advocacy and Activism
HMP 601	Seminar in Fire Arms and Public Health
HMP 603	Health Systems Policy Analysis
HMP 650	Management of Healthcare Outcomes
HMP 651	Managing a Public Health Agency
HMP 653	Fundamentals of Disaster Management
HMP 654	Public Health Funding & Program Development

HMP 655	Coordinating a Population's Care
HMP 656	Organizational Finance Seminar: Case Studies in Health Care
HMP 657	Health Care Strategy and Operations: Creating Change
HMP 701	Health Care Data Analytics
HMP 703	Introduction to GIS for Public Health
HMP 704	Using Data to Drive Policy and Practice
HMP 802	Health and Human Rights
HMP 810	Health Services Research
HMP 812	Qualitative Methods for Health Policy Research and Practice
HMP 815	Cost Benefit Analysis for Health Services
HMP 820	Methods in Implementation Science
HMP 852	Health Economics I
HMP 853	Health Economics II
<b>Total Credits</b>	<b>45.0</b>

\* EOH 510 can be substituted with an elective with faculty mentor approval.

\*\* 800 level courses may require professor's permission

Introductory Public Health Learning Objectives: PBHL 501 is a required prerequisite course for students who do not have a degree from a CEPH accredited school.

## Sample Plan of Study

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EOH 510	3.0 BST 571	3.0 EOH 605	3.0 VACATION	
EPI 570	3.0 EOH 610	3.0 EOH 612	3.0	
Elective	3.0 Elective	3.0 EOH 799	3.0	
	<b>9</b>	<b>9</b>	<b>9</b>	<b>0</b>
Second Year				
Fall	Credits Winter	Credits		
EOH 625	3.0 EOH 725	3.0		
EOH 799	3.0 EOH 799	3.0		
EPI 561	3.0 Elective	3.0		
	<b>9</b>	<b>9</b>		
<b>Total Credits</b>	<b>45</b>			

Introductory Public Health Learning Objectives: PBHL 501 is a required prerequisite course for students who do not have a degree from a CEPH accredited school.

## Epidemiology MPH

*Major: Epidemiology*

*Degree Awarded: Master of Public Health*

*Calendar Type: Quarter*

*Total Credit Hours: 56.0*

*Co-op Option: None*

*Classification of Instructional Programs (CIP) code: 26.1309*

*Standard Occupational Classification (SOC) code: 19-1041*

## About the Program

MPH Epidemiology students learn and apply quantitative approaches to characterize, monitor, and understand the health of populations. Students gain experience in the design of epidemiologic studies and in the analysis of data. Epidemiology and Biostatistics faculty focus on a range of analytic approaches and their application to a spectrum of topics including social inequalities in health, neighborhood differences in health, chronic and infectious disease epidemiology, the epidemiology of health across life stages, nutrition, physical activity and obesity, and clinical research.

Career paths in epidemiology often involve data collection, analyses, and interpretation to inform policy and practice in governmental, private, nonprofit, academic, and healthcare settings. Epidemiology graduates may also manage research studies that lead to the changes in decision making in public health.

## Major Competencies

- Utilize population data to describe common public health measures, including rates of adverse outcomes and disease occurrence
- Define a problem and formulate a testable hypothesis
- Solve data analyses pertinent to hypothesis testing
- Create effective summaries of analyses
- Demonstrate basic data management and analysis skills using statistical software such as SAS by translating raw epidemiologic data into actionable public health information

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

### MPH Foundation Courses

BST 571	Introduction to Biostatistics *	3.0
EPI 570	Introduction to Epidemiology *	3.0
HMP 505	Qualitative Data and Mixed Methods Analysis *	2.0
PBHL 510	Public Health Foundations and Systems I	4.0
PBHL 511	Public Health Foundations and Systems II	4.0

### EPI Foundation Courses

BST 555	Introduction to Statistical Computing	3.0
BST 560	Intermediate Biostatistics I	3.0
EPI 560	Intermediate Epidemiology	3.0

### Integrative Learning Experience

EPI 750	Integrative Learning Experience in Epidemiology I	3.0
EPI 751	Integrative Learning Experience in Epidemiology II	3.0

### Practical Experience

PBHL 500	Practical Experience for the Master of Public Health	0.0
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### Electives **25.0**

#### Biostatistics Electives

BST 551	Statistical Inference I
BST 553	Longitudinal Data Analysis
BST 557	Survival Data Analysis
BST 558	Applied Multivariate Analysis
BST 559	Intermediate SAS
BST 561	Design & Analysis of Clinical Trials
BST 567	Statistical Consulting
BST 568	Nonparametric and Semiparametric Models
BST 569	Linear Statistical Models
BST 570	Generalized Linear Models
BST 604	Applied Bayesian Analysis
BST 651	Statistical Inference II
BST 701	Advanced Statistical Computing

#### Community Health and Prevention Electives

CHP 500	Behavior and Social Change Theories
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CHP 501	Community Engagement in Public Health Practice & Research
CHP 503	Multi-Method Data Analysis in Community Health & Prevention
CHP 516	History of Public Health
CHP 517	Overview of Maternal and Child Health
CHP 518	Global Issues in Maternal and Child Health
CHP 540	Prevention Principles and Practices
CHP 550	Community Based Prevention Practices
CHP 605	Outcomes and Impact Evaluation
CHP 607	Public Health Ethics
CHP 608	Animals and Public Health
CHP 650	Drug Use and Public Health
CHP 670	Multicultural Competence in Community Health and Prevention
CHP 671	Community Organizing and Community Assessment for Health and Wellness
CHP 672	Theory and Practice in Health Communication
CHP 673	Process Monitoring and Outcomes Evaluation for Community Health Programs
CHP 681	Research with Rare, Stigmatized and Hidden Populations
CHP 682	LGBT Health Disparities
CHP 683	Intersectional Perspectives
CHP 691	Public Health Practice in and with Latino Communities
CHP 692	Migration and Health
CHP 802	Theory & Practice of Community Health and Prevention II
CHP 803	Research Methods for Community Health and Prevention
CHP 804	Qualitative Research in Community Health
CHP 806	Community Based Participatory Research
CHP 808	Measuring Health
CHP 815	Advanced Topics in Qualitative Analysis & Manuscript Development
<b>Environmental and Occupational Health Electives</b>	
EOH 560	Overview of Issues in Global Health
EOH 563	Injury Prevention and Control
EOH 564	Safety in Healthcare
EOH 642	Healthy Housing & Built Environment
EOH 646	Environmental Health in Vulnerable Populations
EOH 648	Public Health and Disaster Preparedness
EOH 649	Occupational and Environmental Cancers
EOH 655	Infection Prevention and Control in the Healthcare Environment
EOH 657	Public Health Impacts of Global Climate Change
EOH 658	Crisis and Risk Communication in Public Health
EOH 665	Quantitative Risk Analysis for Environmental Health
<b>Epidemiology Electives</b>	
EPI 550	Applied Survey Research in Epidemiology
EPI 551	Epidemiology of Cancer
EPI 552	Epidemiology for Public Health Practice
EPI 553	Infectious Disease Epidemiology
EPI 556	Perinatal Epidemiology
EPI 557	Cardiovascular Disease Epidemiology & Prevention
EPI 558	Making Sense of Data
EPI 559	Pharmacoepidemiology
EPI 561	Pathophysiologic Basis of Epidemiologic Research
EPI 562	The Changing US HIV Epidemic and the Responses of Affected Communities
EPI 563	Interprofessional Collaboration for Urban Health
EPI 564	Data Science Using R
EPI 569	Disease Outbreak Investigations
EPI 572	Design and Analysis of Epidemiological Studies
EPI 573	Autism as a Public Health Challenge
EPI 610	Public Health Surveillance
EPI 677	Health and Design Research
EPI 700	Advanced Epidemiology
EPI 801	Causal Inference: Theory

EPI 802	Methodological Challenges
EPI T580	Special Topics in Epidemiology
EPI T680	Special Topics in Epidemiology
EPI T780	Special Topics in Epidemiology
EPI T880	Special Topics in Epidemiology
EPI T980	Special Topics in Epidemiology
<b>Health Management and Policy Electives</b>	
HMP 500	Health Management and Policy I
HMP 501	Health Management and Policy II
HMP 510	Evolution of United States Health Policy
HMP 511	Legal Aspects of Public Health
HMP 512	The Business of Healthcare: Advanced Healthcare Financial Management
HMP 513	Healthcare Planning Principles and Practice
HMP 514	Policy Analysis for Population Health
HMP 515	Health Organizational Leadership
HMP 516	Health Care Organizations and Management
HMP 550	Health Disparities: Systemic, Structural, Environmental & Economic
HMP 551	Historical and Contemporary Developments in Social Justice
HMP 552	Perspectives on Gender, Race, Ethnicity, and Social Class
HMP 554	Issues in United States Health Policy
HMP 555	Violence, Trauma and Adversity in Public Health
HMP 556	Public Health Leadership
HMP 600	Public Health Advocacy and Activism
HMP 601	Seminar in Fire Arms and Public Health
HMP 602	The Politics of Food & Gender
HMP 603	Health Systems Policy Analysis
HMP 650	Management of Healthcare Outcomes
HMP 651	Managing a Public Health Agency
HMP 652	Change Management in Public Health
HMP 653	Fundamentals of Disaster Management
HMP 654	Public Health Funding & Program Development
HMP 656	Organizational Finance Seminar: Case Studies in Health Care
HMP 657	Health Care Strategy and Operations: Creating Change
HMP 701	Health Care Data Analytics
HMP 703	Introduction to GIS for Public Health
HMP 704	Using Data to Drive Policy and Practice
HMP 802	Health and Human Rights
HMP 810	Health Services Research
HMP 812	Qualitative Methods for Health Policy Research and Practice
HMP 815	Cost Benefit Analysis for Health Services
HMP 820	Methods in Implementation Science
HMP 852	Health Economics I
HMP 853	Health Economics II

**Total Credits** **56.0**

\* EPI 570, BST 571 and HMP 505 may be replaced with PBHL 512, PBHL 513 and EPI 500.

## Sample Plan of Study

### 12 Month (4 Quarter) Full-Time

	Summer	Credits
	BST 571	3.0
	EPI 570	3.0
	HMP 505	2.0
	PBHL 510	4.0
	PBHL 511	4.0
		<b>16</b>

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
BST 555	3.0 BST 560	3.0 EPI 751	3.0 VACATION	
EPI 560	3.0 EPI 750	3.0 Electives	9.0	
PBHL 500	0.0 Electives	9.0		
Electives	7.0			
	<b>13</b>	<b>15</b>	<b>12</b>	<b>0</b>

Total Credits 56

## 18 Month (5 Quarter) Full-Time - Preferred

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
BST 555	3.0 EPI 500	3.0 BST 560	3.0 PBHL 500	0.0
PBHL 510	4.0 PBHL 511	4.0 EPI 560	3.0	
PBHL 512	4.0 PBHL 513	4.0 Elective	4.0	
	<b>11</b>	<b>11</b>	<b>10</b>	<b>0</b>

Second Year

Fall	Credits Winter	Credits
EPI 750	3.0 EPI 751	3.0
Electives	9.0 Electives	9.0
	<b>12</b>	<b>12</b>

Total Credits 56

## 18 Month (5 Quarter) Full-Time - Alternate

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
BST 555	3.0 BST 571	3.0 BST 560	3.0 PBHL 500	0.0
EPI 570	3.0 PBHL 511	4.0 EPI 560	3.0	
PBHL 510	4.0 Elective	3.0 HMP 505	2.0	
		Elective	4.0	
	<b>10</b>	<b>10</b>	<b>12</b>	<b>0</b>

Second Year

Fall	Credits Winter	Credits
EPI 750	3.0 EPI 751	3.0
Electives	9.0 Electives	9.0
	<b>12</b>	<b>12</b>

Total Credits 56

## 21 Month (6 Quarter) Full-Time

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
BST 555	3.0 BST 571	3.0 BST 560	3.0 PBHL 500	0.0
EPI 570	3.0 PBHL 511	4.0 EPI 560	3.0	
PBHL 510	4.0 Elective	3.0 HMP 505	2.0	
	<b>10</b>	<b>10</b>	<b>8</b>	<b>0</b>

Second Year

Fall	Credits Winter	Credits Spring	Credits
Electives	9.0 EPI 750	3.0 EPI 751	3.0
	Electives	7.0 Electives	6.0
	<b>9</b>	<b>10</b>	<b>9</b>

Total Credits 56

# Epidemiology MS

Major: Epidemiology

Degree Awarded: Master of Science (MS)

Calendar Type: Quarter

Total Credit Hours: 45.0

Co-op Option: None

Classification of Instructional Programs (CIP) code: 26.1309

Standard Occupational Classification (SOC) code: 19-1041

## About the Program

The goal of the MS in Epidemiology program is to produce graduates who have a solid understanding of epidemiologic principles and methods, and the demonstrated ability and capacity to apply that understanding and skill to solve complex health issues.

The curriculum and project requirements are designed to provide, and then to demonstrate, the ability to effectively engage in and report research. This includes the development of appropriate research questions and aims, the design and conduct of epidemiologic studies, and the appropriate analysis, interpretation, and presentation of research data. Upon graduation, MS students will have attained competencies in two areas: general epidemiology knowledge and skills, and epidemiologic research methods. This program is for students interested in a terminal degree in applied epidemiologic and health research, as well as those who may wish to pursue doctoral training in epidemiology.

## Major Competencies

- Identify appropriate study designs based on a research question and calculate appropriate measures of disease frequency and risk
- Review and critically evaluate the validity of the design, analysis, and interpretation of findings from published research studies
- Create and manage datasets appropriate for epidemiologic analyses from sources such as surveillance or other health-related investigations
- Conduct descriptive and hypothesis testing analyses of an epidemiologic data set using a standard statistical software package
- Create effective written and visual summaries of analysis results

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

Completion of the MS in Epidemiology requires a:

- Minimum of 39.0 credit hours of coursework
- Cumulative grade point average (GPA) of 3.0 or higher
- Substantial data analysis project (6.0 credit hours) with a written report and oral presentation

### Required Courses \*

Foundation Courses		
EPI 570	Introduction to Epidemiology	3.0
BST 571	Introduction to Biostatistics	3.0
Epidemiology		
EPI 560	Intermediate Epidemiology	3.0
EPI 561	Pathophysiologic Basis of Epidemiologic Research	3.0
Biostatistics		
BST 553	Longitudinal Data Analysis	3.0
BST 555	Introduction to Statistical Computing	3.0

BST 560	Intermediate Biostatistics I	3.0
<b>Master's Project Courses</b>		
EPI 699	Master of Science Epidemiology Project	6.0
<b>Electives</b>		
Students must select 18.0 credits total. Some potential electives include the following:		18.0
BST 558	Applied Multivariate Analysis	
BST 561	Design & Analysis of Clinical Trials	
BST 568	Nonparametric and Semiparametric Models	
BST 569	Linear Statistical Models	
BST 570	Generalized Linear Models	
EPI 550	Applied Survey Research in Epidemiology	
EPI 551	Epidemiology of Cancer	
EPI 552	Epidemiology for Public Health Practice	
EPI 553	Infectious Disease Epidemiology	
EPI 556	Perinatal Epidemiology	
EPI 557	Cardiovascular Disease Epidemiology & Prevention	
EPI 558	Making Sense of Data	
EPI 559	Pharmacoepidemiology	
EPI 561	Pathophysiologic Basis of Epidemiologic Research	
EPI 562	The Changing US HIV Epidemic and the Responses of Affected Communities	
EPI 564	Data Science Using R	
EPI 569	Disease Outbreak Investigations	
EPI 573	Autism as a Public Health Challenge	
EPI 610	Public Health Surveillance	
EPI 677	Health and Design Research	
<b>Total Credits</b>		<b>45.0</b>

\* Students who do not have a degree from a CEPH accredited school will be required to take PBHL 501.

## Sample Plan of Study

### First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EPI 570	3.0 BST 571	3.0 EPI 560	3.0 VACATION	
BST 555	3.0 Elective	3.0 BST 560	3.0	
EPI 561	3.0 Elective	3.0 Elective	3.0	
	<b>9</b>	<b>9</b>	<b>9</b>	<b>0</b>

### Second Year

Fall	Credits Winter	Credits
EPI 590	3.0 BST 553	3.0
Elective	3.0 EPI 590	3.0
Elective	3.0 Elective	3.0
	<b>9</b>	<b>9</b>

**Total Credits 45**

## Epidemiology PhD

*Major: Epidemiology*

*Degree Awarded: Doctor of Philosophy (PhD)*

*Calendar Type: Quarter*

*Total Credit Hours: 54.0*

*Co-op Option: None*

*Classification of Instructional Programs (CIP) code: 26.1309*

*Standard Occupational Classification (SOC) code: 19-1041*

## About the Program

The PhD in Epidemiology program prepares students to approach problems with the critical analytic skills necessary for the generation of substantial and significant epidemiologic questions, and to utilize the

most rigorous and parsimonious research strategies to answer such questions. Additionally, integral values of the Department and School will infuse students with the commitment to pursue important and innovative topics of inquiry even when faced with methodological challenges, and to undertake studies that generate knowledge applicable to diverse social, ethnic, and geographically defined populations.

Graduates will develop the skill and expertise necessary to initiate and direct the scientifically rigorous research necessary to generate the knowledge upon which to base public health and medical care policies and procedures designed to foster the maintenance and improvement of the health and well-being of populations.

## Major Competencies

- Demonstrate a basic understanding of human physiology, pathophysiology, genetics, and genomics with special competence in areas needed for dissertation
- Search and evaluate literature to synthesize information, identify major gaps in knowledge, and formulate statements of research problems and hypotheses
- Design an epidemiologic study with consideration of internal and external validity
- Apply relevant theoretical frameworks including epidemiologic causal inference theory to the formulation of hypotheses, study design and implementation, and interpretation of analyses
- Collaborate and communicate across disciplines to enhance research and place findings in broader context, including public health, biomedical, and health policy, using a range of dissemination methods (e.g., appropriate peer-reviewed journals, social media platforms, etc.)

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team

Office of Education

dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

### Required \*

BST 820	Intermediate Biostatistics II	3.0
EPI 700	Advanced Epidemiology	3.0
EPI 800	Epidemiology PhD Seminar	3.0
EPI 801	Causal Inference: Theory	3.0
EPI 802	Methodological Challenges	3.0
EPI 803	Proposal Writing Seminar	3.0
EPI 861	Pathophysiologic Basis of Epidemiologic Research	3.0
RCRG 600	An Introduction to the Responsible Conduct of Research	0.0

### Selective

BST 701	Advanced Statistical Computing	
EPI 864	Data Science Using R	

### Dissertation

EPI 999	Thesis Research: Dissertation Guidance in Epidemiology	<b>18.0</b>
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### Electives \*\*

BST 553	Longitudinal Data Analysis	
BST 557	Survival Data Analysis	
BST 560	Intermediate Biostatistics I	

BST 569	Linear Statistical Models
BST 570	Generalized Linear Models
BST 701	Advanced Statistical Computing
EPI 550	Applied Survey Research in Epidemiology
EPI 553	Infectious Disease Epidemiology
EPI 556	Perinatal Epidemiology
EPI 557	Cardiovascular Disease Epidemiology & Prevention
EPI 559	Pharmacoepidemiology
EPI 560	Intermediate Epidemiology
<b>Total Credits</b>	<b>54.0</b>

See the PhD Program Guide for additional information.

\* Students who do not have a degree from a CEPH accredited school must also take PBHL 501.

\*\* Electives are chosen in consultation with advisor, and at least one Elective should be at the doctoral level.

## Sample Plan of Study

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
BST 820	3.0 EPI 861	3.0 EPI 802	3.0 VACATION	
EPI 700	3.0 RCRG 600	0.0 Electives	6.0	
Selective	3.0 Electives	6.0		
	<b>9</b>	<b>9</b>	<b>9</b>	<b>0</b>
Second Year				
Fall	Credits Winter	Credits Spring	Credits	
EPI 803	3.0 EPI 800	3.0 EPI 999	9.0	
EPI 801	3.0 EPI 999	6.0		
EPI 999	3.0			
	<b>9</b>	<b>9</b>	<b>9</b>	
<b>Total Credits</b>	<b>54</b>			

## Global Health

*Major: Global Health*

*Degree Awarded: Master of Science*

*Calendar Type: Quarter*

*Total Credit Hours: 45.0*

*Co-op Option: None*

*Classification of Instructional Programs (CIP) code: 51.2210*

*Standard Occupational Classification (SOC) code: 21-1091*

## About the Program

The Master of Science in Global Health aims to prepare the next generation of public health leaders for careers in global health. The MS program draws upon the interdisciplinary expertise of the Dornsife School of Public Health's faculty, allowing students to gain both broad understanding of global health and have a deeper engagement on issues such as urban and environmental health, maternal and child health, human rights, social justice, and ethics.

The online degree can be completed part time and is designed for clinicians, researchers, program managers, policy analysts, social entrepreneurs, and others who want to study both the theory and practice of global health, strengthening their skills in quantitative, qualitative, and applied social sector research. Graduates will be prepared for careers in research, policy, program management, and evaluation. Employers include government agencies, academic institutions, global technical

agencies, international non-governmental organizations, and private sector global health companies.

## Major Competencies:

- Analyze the diverse factors that influence the health of global populations and think critically and creatively about how to develop effective and sustainable solutions.
- Engage with communities and key stakeholders and understand the challenges of partnership and importance of country ownership.
- Analyze global and national health systems, examining and assessing the equitable distribution of resources and the prioritization of health care across populations.
- Act ethically, promoting the right to health and integrating scientific knowledge and global evidence to advance health policies and interventions that address social determinants with an emphasis on underserved and marginalized populations.

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Drexel University Online website including how to apply.

## Degree Requirements

### Required Courses

BST 571	Introduction to Biostatistics	3.0
CHP 607	Public Health Ethics	3.0
CHP 660	Global Health Ethics	1.5
CHP 661	Monitoring and Evaluation in Global Health Programs and Advocacy	1.5
CHP 673	Process Monitoring and Outcomes Evaluation for Community Health Programs	3.0
EOH 560	Overview of Issues in Global Health	3.0
EPI 570	Introduction to Epidemiology	3.0
HMP 603	Health Systems Policy Analysis	3.0

### Capstone Courses

CHP 752	Global Health Integrative Learning Experience: Capstone Course I	1.5
CHP 753	Global Health Integrative Learning Experience: Capstone Course II	1.5

### Electives

BST 555	Introduction to Statistical Computing	21.0
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CHP 517	Overview of Maternal and Child Health
CHP 518	Global Issues in Maternal and Child Health
CHP 681	Research with Rare, Stigmatized and Hidden Populations
CHP 682	LGBT Health Disparities
CHP 683	Intersectional Perspectives
CHP 691	Public Health Practice in and with Latino Communities
EPI 556	Perinatal Epidemiology
EPI 572	Design and Analysis of Epidemiological Studies
EPI 611	Research Project Development
HMP 505	Qualitative Data and Mixed Methods Analysis
HMP 555	Violence, Trauma and Adversity in Public Health
<b>Total Credits</b>	<b>45.0</b>

## Sample Plan of Study

### Full Time

#### 9 Months

##### First Year

Fall	Credits Winter	Credits Spring	Credits
EOH 560	3.0 BST 571	3.0 CHP 607	3.0
EPI 570	3.0 CHP 661	1.5 CHP 660	1.5
HMP 603	3.0 CHP 673	3.0 CHP 753	1.5
PBHL 501	0.0 CHP 752	1.5 Elective	9.0
Elective	6.0 Elective	6.0	
	<b>15</b>	<b>15</b>	<b>15</b>

Total Credits 45

#### 12 Months

##### First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EOH 560	3.0 BST 571	3.0 CHP 607	3.0 CHP 753	1.5
EPI 570	3.0 CHP 661	1.5 CHP 660	1.5 Electives	9.0
HMP 603	3.0 CHP 673	3.0 CHP 752	1.5	
PBHL 501	0.0 Elective	3.0 Electives	6.0	
Elective	3.0			
	<b>12</b>	<b>10.5</b>	<b>12</b>	<b>10.5</b>

Total Credits 45

### Part Time

#### 24 Months

##### First Year (Part-Time)

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EOH 560	3.0 BST 571	3.0 CHP 607	3.0 Electives	6.0
EPI 570	3.0 CHP 661	1.5 CHP 660	1.5	
PBHL 501	0.0 CHP 673	3.0		
	<b>6</b>	<b>7.5</b>	<b>4.5</b>	<b>6</b>

##### Second Year (Part-Time)

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
HMP 603	3.0 Electives	6.0 CHP 752	1.5 CHP 753	1.5
Elective	3.0	Elective	3.0 Elective	3.0
	<b>6</b>	<b>6</b>	<b>4.5</b>	<b>4.5</b>

Total Credits 45

## Global Health

Major: Global Health

Degree Awarded: Master of Public Health (MPH)

Calendar Type: Quarter

Total Credit Hours: 56.0

Co-op Option: None

Classification of Instructional Programs (CIP) code: 51.2210

Standard Occupational Classification (SOC) code: 21-1091

## About the Program

Students in the online MPH in Global Health will learn how to analyze the influences affecting the health and well-being of diverse populations across different cultures and contexts. Students will develop skills in program planning, research, and communication, learning how to assess, monitor, and evaluate global health programs, policies, and outcomes and design evidence-based programs paying attention to ethics, social justice, and human rights. They will work with our faculty and visiting global health scholars and partner with governmental and non-governmental organizations on an integrative learning and practical experience.

## Major Competencies:

- Analyze the roles, relationships, and resources of the entities influencing global health
- Apply ethical approaches in global health research and practice
- Apply monitoring and evaluation techniques to global health programs, policies, and outcomes
- Propose sustainable and evidence-based multisectoral interventions, considering the social determinants of health specific to the local area
- Design sustainable workforce development strategies for resource-limited settings
- Display critical self-reflection, cultural humility, and ongoing learning in global health

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team

Office of Education

dsphadvising@drexel.edu

Additional information can be found on the Drexel University Online website including how to apply (<https://www.online.drexel.edu/online-degrees/public-health-degrees/mpg-global-health/#admissionscriteria>).

## Degree Requirements

### Required Courses

BST 571	Introduction to Biostatistics	3.0
EPI 570	Introduction to Epidemiology	3.0
HMP 505	Qualitative Data and Mixed Methods Analysis	2.0
PBHL 510	Public Health Foundations and Systems I	4.0
PBHL 511	Public Health Foundations and Systems II	4.0

### Major Courses

CHP 607	Public Health Ethics	3.0
CHP 660	Global Health Ethics	1.5
CHP 661	Monitoring and Evaluation in Global Health Programs and Advocacy	1.5
CHP 673	Process Monitoring and Outcomes Evaluation for Community Health Programs	3.0
EOH 560	Overview of Issues in Global Health	3.0
HMP 603	Health Systems Policy Analysis	3.0

### Integrated Learning Experience

CHP 752	Global Health Integrative Learning Experience: Capstone Course I	1.5
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CHP 753	Global Health Integrative Learning Experience: Capstone Course II	1.5
<b>Practical Experience</b>		
PBHL 500	Practical Experience for the Master of Public Health	0.0
<b>Electives</b>		<b>22.0</b>
BST 555	Introduction to Statistical Computing	
CHP 517	Overview of Maternal and Child Health	
CHP 518	Global Issues in Maternal and Child Health	
CHP 681	Research with Rare, Stigmatized and Hidden Populations	
CHP 682	LGBT Health Disparities	
CHP 683	Intersectional Perspectives	
CHP 691	Public Health Practice in and with Latino Communities	
EPI 556	Perinatal Epidemiology	
EPI 572	Design and Analysis of Epidemiological Studies	
HMP 555	Violence, Trauma and Adversity in Public Health	
<b>Total Credits</b>		<b>56.0</b>

## Sample Plan of Study

### 12 Months (Four Quarter) Full-Time

	Summer	Credits
	BST 571	3.0
	EPI 570	3.0
	HMP 505	2.0
	PBHL 510	4.0
	PBHL 511	4.0
<b>Total Credits</b>		<b>16</b>

First Year				
Fall	Credits Winter	Credits Spring	Credits	
EOH 560	3.0 CHP 661	1.5 CHP 607	3.0	
HMP 603	3.0 CHP 673	3.0 CHP 660	1.5	
PBHL 500	0.0 CHP 752	1.5 CHP 753	1.5	
Electives	9.0 Electives	7.0 Electives	6.0	
			<b>15</b>	<b>13</b>
			<b>12</b>	
<b>Total Credits</b>				<b>56</b>

### 21 Month (Six Quarter) Full-Time

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EOH 560	3.0 BST 571	3.0 HMP 505	2.0 PBHL 500	0.0
EPI 570	3.0 PBHL 511	4.0 Electives	7.0	
PBHL 510	4.0 Elective	3.0		
			<b>10</b>	<b>10</b>
			<b>9</b>	<b>0</b>
Second Year				
Fall	Credits Winter	Credits Spring	Credits	
HMP 603	3.0 CHP 661	1.5 CHP 607	3.0	
Electives	6.0 CHP 673	3.0 CHP 660	1.5	
	CHP 752	1.5 CHP 753	1.5	
	Elective	3.0 Elective	3.0	
			<b>9</b>	<b>9</b>
<b>Total Credits</b>				<b>56</b>

### 18 Month (Five Quarter) Full-Time

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EOH 560	3.0 BST 571	3.0 CHP 607	3.0 PBHL 500	0.0
EPI 570	3.0 CHP 661	1.5 CHP 660	1.5	
PBHL 510	4.0 CHP 673	3.0 HMP 505	2.0	
Elective	3.0 PBHL 511	4.0 Elective	3.0	
			<b>13</b>	<b>11.5</b>
			<b>9.5</b>	<b>0</b>

Second Year		
Fall	Credits Winter	Credits
CHP 752	1.5 CHP 753	1.5
HMP 603	3.0 Electives	9.0
Electives	7.0	
		<b>11.5</b>
		<b>10.5</b>

**Total Credits 56**

## Nine Quarter Part-Time

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EPI 570	3.0 BST 571	3.0 HMP 505	2.0 VACATION	
PBHL 510	4.0 PBHL 511	4.0 Elective	3.0	
			<b>7</b>	<b>7</b>
			<b>5</b>	<b>0</b>

Second Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EOH 560	3.0 CHP 607	3.0 CHP 661	1.5 VACATION	
HMP 603	3.0 CHP 660	1.5 CHP 673	3.0	
	Elective	3.0 Elective	3.0	
			<b>6</b>	<b>7.5</b>
			<b>7.5</b>	<b>0</b>

Third Year			
Fall	Credits Winter	Credits Spring	Credits
Electives	7.0 CHP 752	1.5 CHP 753	1.5
	Elective	3.0 Elective	3.0
		<b>7</b>	<b>4.5</b>
		<b>4.5</b>	

**Total Credits 56**

## Eight Quarter Part-Time

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EPI 570	3.0 BST 571	3.0 HMP 505	2.0 PBHL 500	0.0
PBHL 510	4.0 PBHL 511	4.0 Electives	6.0 Electives	6.0
			<b>7</b>	<b>7</b>
			<b>8</b>	<b>6</b>

Second Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EOH 560	3.0 CHP 607	3.0 CHP 661	1.5 CHP 753	1.5
HMP 603	3.0 CHP 660	1.5 CHP 673	3.0 Electives	6.0
Elective	1.0 Elective	3.0 CHP 752	1.5	
			<b>7</b>	<b>7.5</b>
			<b>6</b>	<b>7.5</b>

**Total Credits 56**

# Health Management and Policy

Major: Health Management and Policy

Degree Awarded: Master of Public Health (MPH)

Calendar Type: Quarter

Total Credit Hours: 56.0

Co-op Option: None

Classification of Instructional Programs (CIP) code: 51.0701

Standard Occupational Classification (SOC) code: 11-9111

## About the Program

Training the next generation of public health practitioners and leaders to take on management and policy-making roles to improve healthcare delivery and population health at the local, state, and national levels is the work of the Department of Health Management and Policy (HMP). We prepare students to become agents for positive change in a dynamic and complex world who will lead in the following domains:

- **Urban Health:** Manage a diverse set of healthcare and public health programs aimed at advancing the health status of people living in America's cities.
- **Human Rights:** Assure that organizational priorities and strategies focus on improving and maintaining health as a basic human right.
- **Policy and Management Integration:** Direct organizations and programs with a clear vision of how the interests of institutions and society must be considered as mutually dependent.

The curriculum provides engaging and challenging learning experiences that prepare students to lead purposeful lives in the service of healthcare and public health. Students learn to plan, implement, operate, and evaluate programs and organizations that are responsive to rapidly changing needs and also entrenched or longstanding societal problems. Recognizing that health should be a component of all public policy, our faculty help students to develop professional skills in management, organization, finance, advocacy, political action, research, public policy analysis, and evaluation.

In teaching, research, and service, the Department's students, faculty, and staff engage with many community partners in common cause to contribute responsible, sustainable solutions that improve the quality of life in the region and beyond.

## Major Competencies:

- Analyze the government powers and restraints that underlie the development and implementation of a public health program or policy
- Apply financial tools and measures to assure effective resource use in achieving population health improvement objectives
- Analyze the evolution of healthcare policy over the past century and its bearing on the future of population health in the United States
- Apply population health principles in assessing value-based healthcare delivery and financing strategies
- Contribute to the development of an evidence-informed program or policy proposal that addresses an important urban public health problem

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

### Public Health Foundations Courses

PBHL 510	Public Health Foundations and Systems I	4.0
PBHL 511	Public Health Foundations and Systems II	4.0
EPI 570	Introduction to Epidemiology *	3.0
BST 571	Introduction to Biostatistics *	3.0
HMP 505	Qualitative Data and Mixed Methods Analysis *	2.0

### Major Core Courses

HMP 500	Health Management and Policy I	3.0
HMP 501	Health Management and Policy II	3.0
HMP 550	Health Disparities: Systemic, Structural, Environmental & Economic	3.0

### Policy Selective (select one)

HMP 510	Evolution of United States Health Policy	3.0
or HMP 511	Legal Aspects of Public Health	

### Management Selective (select one)

HMP 512	The Business of Healthcare: Advanced Healthcare Financial Management	3.0
or HMP 516	Health Care Organizations and Management	

### Social Justice/Equity Selective (select one)

3.0

HMP 551	Historical and Contemporary Developments in Social Justice	
HMP 552	Perspectives on Gender, Race, Ethnicity, and Social Class	
HMP 554	Issues in United States Health Policy	
HMP 555	Violence, Trauma and Adversity in Public Health	
HMP 557	Public Health and the Complexity of Mental Health Policy: Exploring Past, Present, and Future	
HMP 600	Public Health Advocacy and Activism	
HMP 601	Seminar in Fire Arms and Public Health	
HMP 602	The Politics of Food & Gender	
HMP 603	Health Systems Policy Analysis	
HMP 655	Coordinating a Population's Care	

### Integrative Learning Experience

HMP 750	Integrative Learning Experience	2.0
HMP 751	Integrative Learning Experience II	2.0

An additional 3-credits (7-credits in total) could be earned by means of a more intensive/extensive culminating learning experience, if approved by the faculty advisor and Department Chairperson. The number of credits to be earned will depend on the scope and breadth of effort undertaken by the student to complete this academic requirement. Increasing the number of credits taken to satisfy the master's project requirement will require students to reduce the number of elective credits taken.

**Electives \*** **18.0**

### Health Management and Policy

HMP 600	Public Health Advocacy and Activism	
HMP 601	Seminar in Fire Arms and Public Health	
HMP 602	The Politics of Food & Gender	
HMP 603	Health Systems Policy Analysis	
HMP 650	Management of Healthcare Outcomes	
HMP 651	Managing a Public Health Agency	
HMP 652	Change Management in Public Health	
HMP 653	Fundamentals of Disaster Management	
HMP 654	Public Health Funding & Program Development	
HMP 655	Coordinating a Population's Care	
HMP 656	Organizational Finance Seminar: Case Studies in Health Care	
HMP 657	Health Care Strategy and Operations: Creating Change	
HMP 701	Health Care Data Analytics	
HMP 703	Introduction to GIS for Public Health	
HMP 704	Using Data to Drive Policy and Practice	
HMP 802	Health and Human Rights	
HMP 810	Health Services Research	
HMP 812	Qualitative Methods for Health Policy Research and Practice	
HMP 815	Cost Benefit Analysis for Health Services	
HMP 820	Methods in Implementation Science	
HMP 852	Health Economics I	
HMP 853	Health Economics II	

### Epidemiology/Biostatistics Electives

BST 555	Introduction to Statistical Computing	
BST 559	Intermediate SAS	
EPI 551	Epidemiology of Cancer	
EPI 553	Infectious Disease Epidemiology	
EPI 556	Perinatal Epidemiology	
EPI 557	Cardiovascular Disease Epidemiology & Prevention	
EPI 558	Making Sense of Data	
EPI 559	Pharmacoepidemiology	
EPI 561	Pathophysiologic Basis of Epidemiologic Research	
EPI 564	Data Science Using R	

EPI 573	Autism as a Public Health Challenge
<b>Community Health and Prevention Electives</b>	
CHP 503	Multi-Method Data Analysis in Community Health & Prevention
CHP 517	Overview of Maternal and Child Health
CHP 518	Global Issues in Maternal and Child Health
CHP 540	Prevention Principles and Practices
CHP 550	Community Based Prevention Practices
CHP 605	Outcomes and Impact Evaluation
CHP 607	Public Health Ethics
CHP 608	Animals and Public Health
CHP 650	Drug Use and Public Health
CHP 670	Multicultural Competence in Community Health and Prevention
CHP 671	Community Organizing and Community Assessment for Health and Wellness
CHP 672	Theory and Practice in Health Communication
CHP 673	Process Monitoring and Outcomes Evaluation for Community Health Programs
CHP 681	Research with Rare, Stigmatized and Hidden Populations
CHP 682	LGBT Health Disparities
CHP 683	Intersectional Perspectives
CHP 691	Public Health Practice in and with Latino Communities
CHP 692	Migration and Health
CHP 801	Theory & Practice of Community Health & Prevention I
CHP 802	Theory & Practice of Community Health and Prevention II
CHP 803	Research Methods for Community Health and Prevention
CHP 804	Qualitative Research in Community Health
CHP 806	Community Based Participatory Research
CHP 807	Public Health Ethics
CHP 808	Measuring Health
<b>Environmental and Occupational Health Electives</b>	
EOH 560	Overview of Issues in Global Health
EOH 563	Injury Prevention and Control
EOH 564	Safety in Healthcare
EOH 610	Environmental and Occupational Toxicology
EOH 615	Environmental and Occupational Health Policy
EOH 625	Occupational and Environmental Epidemiology
EOH 630	Environmental Health Risk and Impact Assessment
EOH 640	Environmental and Occupational Health
EOH 642	Healthy Housing & Built Environment
EOH 646	Environmental Health in Vulnerable Populations
EOH 648	Public Health and Disaster Preparedness
EOH 649	Occupational and Environmental Cancers
EOH 655	Infection Prevention and Control in the Healthcare Environment
EOH 657	Public Health Impacts of Global Climate Change
EOH 658	Crisis and Risk Communication in Public Health
EOH 665	Quantitative Risk Analysis for Environmental Health
<b>Total Credits</b>	<b>56.0</b>

\* EPI 570, BST 571 and HMP 505 may be replaced with PBHL 512, PBHL 513.

## Sample Plan of Study

### 12 Month (4 Quarter) Summer Start

	Summer	Credits
	BST 571	3.0
	EPI 570	3.0
	HMP 505	2.0
	PBHL 510	4.0
	PBHL 511	4.0
	<b>16</b>	

First Year					
Fall	Credits	Winter	Credits	Spring	Credits
HMP 500	3.0	HMP 501	3.0	HMP 751	2.0
HMP 550	3.0	HMP 750	2.0	PBHL 500	0.0
PBHL 500	0.0	PBHL 500	0.0	Social Justice/Equity Selective	3.0
Management Selective	3.0	Policy Selective	3.0	Elective	6.0
Electives	6.0	Electives	6.0		
	<b>15</b>		<b>14</b>		<b>11</b>

**Total Credits 56**

### 18 Month (5 Quarter) Sample

First Year							
Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
EPI 570	3.0	BST 571	3.0	HMP 505	2.0	PBHL 500	0.0
HMP 500	3.0	HMP 501	3.0	Electives	6.0		
PBHL 510	4.0	PBHL 511	4.0	Social Justice/Equity Selective	3.0		
				Elective	3.0		
	<b>10</b>		<b>13</b>		<b>11</b>		<b>0</b>

**Second Year**

Fall	Credits	Winter	Credits	Spring	Credits
HMP 550	3.0	HMP 751	2.0		
HMP 750	2.0	Policy Selective	3.0		
Management Selective	3.0	Electives	6.0		
Elective	3.0				
	<b>11</b>		<b>11</b>		

**Total Credits 56**

### 21 Month (6 Quarter) Sample

First Year							
Fall	Credits	Winter	Credits	Spring	Credits	Summer	Credits
EPI 570	3.0	BST 571	3.0	HMP 505	2.0	PBHL 500	0.0
HMP 500	3.0	HMP 501	3.0	Electives	4.0		
PBHL 510	4.0	PBHL 511	4.0	Social Justice/Equity Selective	3.0		
	<b>10</b>		<b>10</b>		<b>9</b>		<b>0</b>

**Second Year**

Fall	Credits	Winter	Credits	Spring	Credits
HMP 550	3.0	HMP 750	2.0	HMP 751	2.0
Management Selective	3.0	Policy Selective	3.0	Electives	7.0
Elective	3.0	Electives	4.0		
	<b>9</b>		<b>9</b>		<b>9</b>

**Total Credits 56**

## Health Management and Policy DrPH

Major: Health Management and Policy

Degree Awarded: Doctor of Public Health (DrPH)

Calendar Type: Quarter

Total Credit Hours: 60.0

*Co-op Option: None*

*Classification of Instructional Programs (CIP) code: 51.0701*

*Standard Occupational Classification (SOC) code: 11-9111*

## About the Program

The Dornsife School of Public Health offers a doctoral program in Health Management and Policy leading to the Doctor of Public Health (DrPH) degree. The DrPH in Health Management and Policy equips students with the skills needed to pursue practice-based careers in health management and policy in healthcare, public health, or related domains in the United States and to become effective leaders at successive levels during the course of their careers.

The program is grounded in the scientific disciplines that provide the evidence base for effective health services, programs, and policies. Coursework will provide a foundation in the social, political, and historical forces that shape healthcare and public health systems in this country and an understanding of evolving efforts to improve healthcare access and value, optimize uses of healthcare data and information, and redefine the interface between healthcare and public health systems. Through coursework, the practicum experience, and the applied DrPH dissertation project, participants will explore the determinants of health and health disparities, as well as leadership, management, and policy strategies for reducing disparities by improving individual and population health.

Students will benefit from engagement with the Department of Health Management and Policy's interdisciplinary faculty, the Dornsife School of Public Health's emphasis on urban health and social justice, and the School's location in Philadelphia—the sixth largest city in the United States where dynamic networks of academic, government, non-profit, and community-based organizations share a commitment to addressing health problems.

## Core Competencies

- Explain qualitative, quantitative, mixed methods, and policy analysis research and evaluation methods to address health issues at multiple (individual, group, organization, community, and population) levels
- Design a qualitative, quantitative, mixed methods, policy analysis, or evaluation project to address a public health issue
- Explain the use and limitations of surveillance systems and national surveys in assessing, monitoring, and evaluating policies and programs and to address a population's health
- Propose strategies for health improvement and elimination of health inequities by organizing stakeholders, including researchers, practitioners, community leaders, and other partners
- Communicate public health science to diverse stakeholders, including individuals at all levels of health literacy, for purposes of influencing behavior and policies
- Integrate knowledge, approaches, methods, values, and potential contributions from multiple professions and systems in addressing public health problems
- Create a strategic plan
- Facilitate shared decision making through negotiation and consensus-building methods
- Create organizational change strategies
- Propose strategies to promote inclusion and equity within public health programs, policies, and systems
- Assess one's own strengths and weaknesses in leadership capacities including cultural proficiency

- Propose human, fiscal, and other resources to achieve a strategic goal
- Cultivate new resources and revenue streams to achieve a strategic goal
- Design a system-level intervention to address a public health issue
- Integrate knowledge of cultural values and practices in the design of public health policies and programs
- Integrate scientific information, legal and regulatory approaches, ethical frameworks, and varied stakeholder interests in policy development and analysis
- Propose interprofessional team approaches to improving public health
- Assess an audience's knowledge and learning needs
- Deliver training or educational experiences that promote learning in academic, organizational, or community settings
- Use best practice modalities in pedagogical practices

## Major Competencies

- Demonstrate a commitment to public health professional values through the integration of ethical principles and an evaluation of personal values
- Develop financial and business plans for health programs and services
- Propose evidence-based policy options for public health issues
- Use information technology to access, evaluate, and interpret public health data
- Assess the feasibility and implications of health systems policies as related to the organizing, delivering, and financing of health services
- Apply the principles of implementation research and practice to successfully integrate evidence-based public health practices into community settings
- Develop policy advocacy strategies at the legislative, programmatic, or administrative levels to influence health policies

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

### U.S Health Care & Public Health Systems & Social Contexts: Policy and Practice

HMP 802	Health and Human Rights	3.0
HMP 803	Health Systems Policy Analysis	3.0
HMP 811	Legal Aspects of Public Health	3.0
HMP 820	Methods in Implementation Science	3.0
HMP 824	Policy Analysis for Population Health	3.0

### Research, Evaluation & Evidence-Based Methods in Health Care & Public Health

CHP 805	Outcomes and Impact Evaluation	3.0
HMP 810	Health Services Research	3.0
HMP 812	Qualitative Methods for Health Policy Research and Practice	3.0
HMP 814	Research and Practice Workshop (1.5 credits per quarter for two quarters)	3.0

Leadership & Strategic Management		
HMP 808	Public Health Advocacy and Activism	3.0
HMP 815	Cost Benefit Analysis for Health Services	3.0
HMP 816	Professional Development Roundtable (1.5 credits per quarter for two quarters)	3.0
HMP 852	Health Economics I	3.0
HMP 856	Public Health Leadership	3.0
HMP 857	Health Care Strategy and Operations: Creating Change	3.0
<b>Electives</b>		<b>6.0</b>
Students will have 2 free electives, one of which must be an 800-level course		
Practical Experience		
HMP 850	DrPH Practicum	0.0
Dissertation		<b>9.0</b>
HMP 998	DrPH Dissertation Guidance	
<b>Total Credits</b>		<b>60.0</b>

## Sample Plan of Study

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
HMP 802	3.0 CHP 805	3.0 HMP 824	3.0 HMP 850	0.0
HMP 810	3.0 HMP 811	3.0 HMP 815	3.0	
HMP 852	3.0 HMP 856	3.0 Elective	3.0	
9		9	9	0
Second Year				
Fall	Credits Winter	Credits Spring	Credits	
HMP 808	3.0 HMP 803	3.0 HMP 812	3.0	
HMP 814	1.5 HMP 814	1.5 HMP 998	3.0	
HMP 816	1.5 HMP 816	1.5 Elective	3.0	
HMP 820	3.0 HMP 857	3.0		
9		9	9	
Third Year				
Fall	Credits			
HMP 998	6.0-12.0			
6-12				
<b>Total Credits 60-66</b>				

\* During the third year, students will work towards completing their dissertation requirements. Students must take a minimum of 9.0 dissertation credits, but the exact number per quarter will depend on each student's needs and progress.

First Year (Part-Time)				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
HMP 802	3.0 HMP 811	3.0 HMP 815	3.0 VACATION	
HMP 810	3.0 HMP 856	3.0 HMP 824	3.0	
6		6	6	0
Second Year (Part-Time)				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
HMP 808	3.0 CHP 805	3.0 HMP 812	3.0 HMP 850	0.0
HMP 816	1.5 HMP 816	1.5 HMP 857	3.0	
4.5		4.5	6	0
Third Year (Part-Time)				
Fall	Credits Winter	Credits Spring	Credits	
HMP 820	3.0 HMP 816	1.5 HMP 803	3.0	
HMP 852	3.0 Elective	3.0 HMP 814	1.5	
6		4.5	7.5	

### Fourth Year (Part-Time)

Fall	Credits
HMP 998*	9.0
<b>9</b>	

**Total Credits 60**

\* During the fourth year, students will work towards completing their dissertation requirements. Students must take a minimum of 9.0 dissertation credits during the fourth year, but the exact number per quarter will depend on each student's needs and progress.

## Health Services Research and Policy

Major: Health Services Research and Policy  
Degree Awarded: Doctor of Philosophy (PhD)

Calendar Type: Quarter  
Total Credit Hours: 90.0

Co-op Option: None

Classification of Instructional Programs (CIP) code: 44.0503  
Standard Occupational Classification (SOC) code: 11-9111

## About the Program

The Doctor of Philosophy in Health Services Research and Policy will equip students with the skills to identify and answer important questions regarding health services, systems, and policies in the United States and to disseminate and translate findings into actions that improve health. Students will benefit from engagement with the Department of Health Management and Policy's interdisciplinary faculty, the Dornsife School of Public Health's emphasis on urban health and social justice, and the School's location in Philadelphia—the 6th largest city in the United States where dynamic networks of academic, government, non-profit, and community-based organizations share a commitment to addressing health problems.

The mission of the PhD in Health Services Research and Policy is to prepare researchers and scholars for careers in universities and other organizations, such as governmental agencies and private health-related industries (insurers, pharmaceuticals, philanthropic foundations, etc.), where health services research is conducted. Ultimately, program graduates will serve to improve the US health care system and individual and population health outcomes through research and advocacy.

The program's four core areas of study are based on principles articulated in the Institute of Medicine report on *Health Services Research: Training and Workforce Issues*:

- Social and Political Determinants of Health and Health Systems: The multi-level factors that affect the health of individuals and populations and that undergird US health systems.
- Research Methods: The methods for investigating health services research and policy questions that involve collecting, analyzing, and interpreting health and health services data.
- Health Economics: The supply and demand of health care resources and the impact of allocation and scarcity of these resources on populations.
- Implementation Science: Approaches to designing and implementing health services interventions at multiple levels using community engagement strategies.

- Research Specialization: Four Drexel University courses outside of program requirements selected at the student's discretion, with advisor approval, that focus on topics applicable to the student's research interests.

## Major Competencies

- Weigh the social, political, behavioral, and economic contexts of health and health services
- Develop and use theoretical frameworks to formulate testable research questions in health services research
- Apply quantitative, qualitative, and mixed methods to answer health services research questions
- Translate and disseminate research findings to inform health services practice and policy
- Critically analyze HSR literature to ensure the ethical and responsible design of new interventions and policy research

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

### Pre-requisites

Students without an MPH from a CEPH-accredited school of Public Health are required to take PBHL 501, HMP 500 and HMP 501 before the end of their first year of coursework.

#### Social and Political Determinants of Health and Health Systems

HMP 802	Health and Human Rights	3.0
HMP 811	Legal Aspects of Public Health	3.0

#### Research Methods

HMP 810	Health Services Research	3.0
HMP 814	Research and Practice Workshop ((taken twice at 1.5 credits each))	3.0
RCRG 600	An Introduction to the Responsible Conduct of Research	0.0

#### Research Methods selective (select three) 9.0

BST 560	Intermediate Biostatistics I	
BST 557	Survival Data Analysis	
BST 558	Applied Multivariate Analysis	
ECON 550	Econometrics	
HMP 703	Introduction to GIS for Public Health	
HMP 812	Qualitative Methods for Health Policy Research and Practice	

#### Health Economics

HMP 815	Cost Benefit Analysis for Health Services	3.0
HMP 852	Health Economics I	3.0
HMP 853	Health Economics II	3.0

#### Implementation and Translation

HMP 820	Methods in Implementation Science	3.0
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#### Implementation and Translation Selective (select one) 3.0

CHP 808	Measuring Health	
HMP 803	Health Systems Policy Analysis	
HMP 824	Policy Analysis for Population Health	

#### Professional Development

HMP 816	Professional Development Roundtable (taken twice at 1.5 credits each)	3.0
<b>Electives *</b>		<b>33.0</b>
<b>Pre-Dissertation Research</b>		<b>9.0</b>
HMP 997	Pre-Dissertation Research	
<b>Dissertation (9 credit minimum)</b>		<b>9.0</b>
HMP 999	PhD Dissertation Guidance	
<b>Total Credits</b>		<b>90.0</b>

\* Twenty-one credits from a student's Master's degree will be transferred over. For the remaining 12.0 credits, students will work in consultation with their advisor to select electives that focus on the student's research and professional development needs. At least 2 of the 4 electives chosen must be at the doctoral level (800 or higher).

## Sample Plan of Study

### Pre-requisites

Students without an MPH from a CEPH-accredited school of Public Health are required to take PBHL 501, HMP 500 and HMP 501 before the end of their first year of coursework.

#### First Year

Fall	Credits Winter	Credits Spring	Credits
HMP 802	3.0 HMP 811	3.0 HMP 815	3.0
HMP 810	3.0 Research Methods Selective	3.0 Research Methods Selective	3.0
HMP 814	1.5 HMP 816	1.5 Elective	3.0
HMP 852	3.0 HMP 853	3.0 Elective*	3.0
Elective*	3.0 RCRG 600	0.0	
	Elective*	3.0	
	<b>13.5</b>	<b>13.5</b>	<b>12</b>

#### Second Year

Fall	Credits Winter	Credits Spring	Credits
HMP 814	1.5 HMP 816	1.5 HMP 997	6.0
HMP 820	3.0 HMP 997	3.0 Elective	3.0
Research Methods Selective	3.0 Elective	3.0 Elective*	3.0
Elective	3.0 Implementation and Translation Science Selective	3.0	
Elective*	3.0 Elective*	3.0	
	<b>13.5</b>	<b>13.5</b>	<b>12</b>

#### Third Year

Fall	Credits Winter	Credits Spring	Credits
HMP 999	3.0-9.0 HMP 999	3.0-9.0 HMP 999	3.0-9.0
Elective*	3.0		
	<b>6-12</b>	<b>3-9</b>	<b>3-9</b>

#### Total Credits 90-108

\* Note: electives that are satisfied through the transferring of 21.0 credits from a student's Master's degree

## Population Health Science

Major: Population Health Science

Degree Awarded: Master of Science (MS)

Calendar Type: Quarter

Total Credit Hours: 45.0

Co-op Option: None

Classification of Instructional Programs (CIP) code: 45.0102

Standard Occupational Classification (SOC) code: 19-1042

## About the Program

The Master of Science in Population Health Sciences (MSPHS) will provide students who already have a terminal degree (e.g., MD, PhD, DVD, as well as others) with the foundation to develop and maintain an independent research program in clinical and population health sciences. Students will undergo rigorous training in research methods with a focus on applying these methods to their area of expertise. The program is extremely flexible so that students can customize their learning to fit their research needs. Upon completion of the MSPHS, students will have the tools to build their research career in their area of specialization.

## Major Competencies

- Critically evaluate the design of research studies, data collection methods, analysis methods, and results of published research
- Formulate appropriate research questions that are informed by underlying conceptual models
- Identify and apply appropriate descriptive and inferential statistical and epidemiologic methodologies to answer research questions in population health
- Effectively communicate statistical methods and research results orally and in writing across the spectrum of population health professionals
- Demonstrate an understanding of the ethics of scientific research on human subjects

## Additional Information

DSPH Academic Advising Team  
Office of Education  
dspadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

Required *		
BST 555	Introduction to Statistical Computing	3.0
BST 560	Intermediate Biostatistics I	3.0
BST 561	Design & Analysis of Clinical Trials	3.0
BST 571	Introduction to Biostatistics	3.0
BST 620	Intermediate Biostatistics II	3.0
BST 699	Data Analysis Project	6.0
or EPI 699	Master of Science Epidemiology Project	
EPI 560	Intermediate Epidemiology	3.0
EPI 570	Introduction to Epidemiology	3.0
EPI 803	Proposal Writing Seminar	3.0
RCRG 600	An Introduction to the Responsible Conduct of Research	0.0
<b>Electives</b>		<b>15.0</b>
<b>Total Credits</b>		<b>45.0</b>

\* Students who do not have a degree from a CEPH accredited school will be required to take PBHL 501.

## Sample Plan of Study

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
BST 555	3.0 BST 571	3.0 BST 560	3.0 VACATION	
EPI 570	3.0 RCRG 600	0.0 EPI 560	3.0	

Electives	3.0 Electives	6.0 Elective	3.0	
	9	9	9	0
Second Year				
Fall	Credits Winter	Credits		
BST 620	3.0 BST 561	3.0		
EPI 803	3.0 EPI 699 or BST 699	3.0		
EPI 699 or BST 699	3.0 Elective	3.0		
	9	9		

Total Credits 45

## Public Health MPH

Major: Public Health

Degree Awarded: Master of Public Health (MPH)

Calendar Type: Quarter

Total Credit Hours: 56.0

Co-op Option: None

Classification of Instructional Programs (CIP) code: 51.2201

Standard Occupational Classification (SOC) code: 11-9111

## About the Program

The Master of Public Health program provides students with the knowledge and skills they need to make a difference in today's public health world.

Our MPH curriculum incorporates several key elements:

- Rigorous, state-of-the-art training in skills that students need to be effective public health leaders
- Flexible degree plans for full-time students and part-time options for online students
- Extensive opportunities for community, practice, and research engagement
- Graduate in less than 2 years, allowing for a head start in the job market
- Opportunity to minor in a specialized area of public health

## Major Competencies:

- Apply epidemiological methods to the breadth of settings and situations in public health practice
- Select quantitative and qualitative data collection methods appropriate for a given public health context
- Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming, and software, as appropriate
- Interpret results of data analysis for public health research, policy, or practice
- Compare the organization, structure, and function of healthcare, public health, and regulatory systems across national and international settings
- Discuss the means by which structural bias, social inequities, and racism undermine health and create challenges to achieving health equity at organizational, community, and societal levels
- Assess population needs, assets, and capacities that affect communities' health
- Apply awareness of cultural values and practices to the design or implementation of public health policies or programs

- Design a population-based policy, program, project, or intervention
- Explain basic principles and tools of budget and resource management
- Select methods to evaluate public health programs
- Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence
- Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes
- Advocate for political, social, or economic policies and programs that will improve health in diverse populations
- Evaluate policies for their impact on public health and health equity
- Apply principles of leadership, governance, and management which include creating a vision, empowering others, fostering collaboration, and guiding decision making
- Select communication strategies for different audiences and sectors
- Communicate audience-appropriate public health content, both in writing and through oral presentation
- Describe the importance of cultural competence in communicating public health content
- Perform effectively on interprofessional teams
- Apply systems thinking tools to a public health issue

## Program Highlights (MPH)

### Majors

Full-time MPH students select a major at the time of application:

- Community Health and Prevention (p. 9)
- Global Health (p. 23)
- Environmental and Occupational Health (p. 13)
- Epidemiology (p. 18)
- Health Management and Policy (p. 24)
- Urban Health (p. 34)

### Minors

Minors are open to all Drexel graduate students in all schools and colleges. The minors are designed to complement students' training by providing basic knowledge in topics outside their primary discipline. In addition to the list below, additional minors are being developed.

- Arts and Community Health (p. 38)
- Biostatistics (p. 38)
- Environmental and Occupational Health (p. 39)
- Global Health (p. 39)
- Health Economics (p. 40)
- Human Health Risk Assessment (p. 40)
- Infectious Disease and Population Health (p. 41)
- Latino/Immigrant Health (p. 41)
- Lesbian, Gay, Bisexual and Transgender (LGBT) Health (p. 42)
- Maternal and Child Health (p. 42)
- Program Monitoring and Evaluation (p. 43)
- Public Health Emergency Preparedness (p. 43)
- Public Health Ethics and History (p. 44)
- Social Justice Policy (p. 44)

- Substance Use and Misuse (p. 45)
- Urban Health (p. 45)

## Curriculum (MPH)

### Core Courses

All students gain foundational public health competencies by completing the core curriculum: PBHL 510 and PBHL 511 *Public Health Foundations and Systems I & II*, as well as EPI 570 *Introduction to Epidemiology*, BST 571 *Introduction to Biostatistics*, and HMP 505 *Qualitative Data and Mixed Methods Analysis*. These courses are designed to be taken at the beginning of the program. This format ensures that course development is shaped by content/disciplinary experts and includes the breadth and depth of relevant skills that all MPH graduates will need regardless of their chosen discipline.

### Discipline-Specific Courses

Students will choose a discipline that provides in-depth training in a major field of study over the MPH program.

### MPH Practical Experience

The practical experience is an applied, field-based requirement that gives students experience in the practice of public health (no credits)—requiring depth (120-240 hours in a field placement) and breadth (1 experience per month)—including participation in short-term volunteer opportunities and participation in on- or off-campus learning opportunities. The practical experience requirement can begin after completion of the core courses.

### Integrative Learning Experience

The integrative learning experience (ILE) is the culminating requirement for MPH students. Each department/major has their own specific requirements for the ILE which requires students to produce a high-quality written product at the end of the program that demonstrates mastery of core public health and discipline-specific competencies.

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

The full-time educational program is structured on a quarter term basis with a total credit hour requirement of 56.0 quarter credit hours. This is generally taken as a two-year program. All coursework must be completed within four years of the date of matriculation for the full-time program.

### MPH Foundation Courses

BST 571	Introduction to Biostatistics *	3.0
EPI 570	Introduction to Epidemiology *	3.0
HMP 505	Qualitative Data and Mixed Methods Analysis *	2.0
PBHL 500	Practical Experience for the Master of Public Health	0.0
PBHL 510	Public Health Foundations and Systems I	4.0
PBHL 511	Public Health Foundations and Systems II	4.0



Major Requirements and Electives **	40.0
<b>Total Credits</b>	<b>56.0</b>

\* EPI 570, BST 571 and HMP 505 may be replaced with PBHL 512 and PBHL 513

## Sample Plan of Study

### 12 Month Program

#### First Year

	Summer	Credits
PBHL 510		4.0
PBHL 511		4.0
EPI 570		3.0
BST 571		3.0
HMP 505		2.0
		<b>16</b>

#### Second Year

Fall	Credits Winter	Credits Spring	Credits
PBHL 500	0.0 Major Required/ Elective Courses	13.0 Major Required/ Elective Courses	12.0
Major Required/ Elective Courses	15.0		
	<b>15</b>	<b>13</b>	<b>12</b>

**Total Credits 56**

### 18 Month Program

#### First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
PBHL 510	4.0 PBHL 511	4.0 HMP 505	2.0 PBHL 500	0.0
EPI 570	3.0 BST 571	3.0 Major Required/ Elective Courses	10.0	
Major Required/ Elective Courses	3.0 Major Required/ Elective Courses	3.0		
	<b>10</b>	<b>10</b>	<b>12</b>	<b>0</b>

#### Second Year

Fall	Credits Winter	Credits
Major Required/ Elective Courses	12.0 Major Required/ Elective Courses	12.0
	<b>12</b>	<b>12</b>

**Total Credits 56**

### 21 Month Program

#### First Year

Fall	Credits Winter	Credits Spring	Credits
PBHL 510	4.0 PBHL 511	4.0 HMP 505	2.0
EPI 570	3.0 BST 571	3.0 Major Required/Elective Courses	7.0
Major Required/Elective Courses	3.0 Major Required/Elective Courses	3.0 PBHL 500	0.0
	<b>10</b>	<b>10</b>	<b>9</b>

#### Second Year

Fall	Credits Winter	Credits Spring	Credits
Major Required/Elective Courses	9.0 Major Required/Elective Courses	9.0 Major Required/Elective Courses	9.0
	<b>9</b>	<b>9</b>	<b>9</b>

**Total Credits 56**

## Executive Master of Public Health

*Major: Public Health*

*Degree Awarded: Master of Public Health (MPH)*

*Calendar Type: Quarter*

*Total Credit Hours: 56.0*

*Co-op Option: None*

*Classification of Instructional Programs (CIP) code: 51.2201*

*Standard Occupational Classification (SOC) code: 11-9111*

## About the Program

Designed for working professionals, the Executive Master of Public Health (EMPH) program offers a convenient class schedule in which students can earn their degree in 21 months. Whether working in public health, a related healthcare setting, or seeking a career change, the Executive MPH program is tailored for individuals who are committed to advancing their careers and acquiring the knowledge and tools to advance to leadership roles in public health. The program is fast-paced, intensive, and demanding, but builds on each individual's former education, work experience, and skills. The Executive MPH program is fully accredited by the Council on Education for Public Health (CEPH).

The Executive MPH program covers the major disciplines of public health, including community health and prevention, environmental and occupational health, epidemiology and biostatistics, and health management and policy, with a focus on public health practice. In addition to required core courses, EMPH students take additional required courses in policy and community assessment and cohort-specific seminars. In the second year, students choose electives from a wide range of online, evening, or daytime courses which allows students to curate public health interests in flexible ways. Students work together in the second year in their capstone course and complete an Applied Practice Experience which enables them to integrate real-world experience with classroom learning.

EMPH students are provided with mentoring and advising opportunities both by full-time School of Public Health faculty and public health practitioners.

## Major Competencies

- Critique the roles of social capital, natural helpers, and neighborhood health assets in designing culturally competent, community-engaged public health programs
- Analyze organizational challenges facing public health practice organizations
- Demonstrate critical, reflective thinking and writing skills that are needed to advance value-based public policies
- Weigh the roles of policymakers, citizens, and interest groups in shaping public health policy
- Translate public health science into public health practice

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

The Executive Program is designed for working professionals whether in public health or considering a career change to public health. The program is tailored for individuals who are committed to advancing their careers and acquiring the knowledge and tools to advance to leadership roles in public health.

The Executive MPH program requires a minimum of 56.0 credits. All degree requirements must be completed within seven years of the date of matriculation. A minimum of five consecutive academic semesters is required for the degree. Enrollment must be continuous unless academic leaves are granted. A minimum overall GPA of 3.0 is required for graduation.

### Required Courses

BST 571	Introduction to Biostatistics	3.0
CHP 671	Community Organizing and Community Assessment for Health and Wellness	3.0
EPI 570	Introduction to Epidemiology	3.0
HMP 505	Qualitative Data and Mixed Methods Analysis	2.0
HMP 660	Public Policy and Advocacy	3.0
PBHL 510	Public Health Foundations and Systems I	4.0
PBHL 511	Public Health Foundations and Systems II	4.0
PBHL 667	Professional Seminar for the Executive MPH Program I *	3.0
PBHL 580	Public Health Practice (EMPH)	1.0
Electives		24.0
PBHL 570	EMPH Capstone I	2.0
PBHL 571	EMPH Capstone II	2.0
PBHL 572	EMPH Capstone III	2.0
<b>Total Credits</b>		<b>56.0</b>

\* PBHL 667 is a 1-credit course taken 3 times for a total of 3-credits.

## Sample Plan of Study

### First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
PBHL 510	4.0 PBHL 511	4.0 CHP 671	3.0 HMP 505	2.0
EPI 570	3.0 BST 571	3.0 PBHL 667	1.0 HMP 660	3.0
PBHL 667	1.0 PBHL 667	1.0 PBHL 580	1.0 Elective	3.0
		Elective	3.0	
	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>

### Second Year

Fall	Credits Winter	Credits Spring	Credits
PBHL 570	2.0 PBHL 571	2.0 PBHL 572	2.0
Electives	6.0 Electives	6.0 Electives	6.0
	<b>8</b>	<b>8</b>	<b>8</b>

**Total Credits 56**

## Public Health Ethics

*Major: Public Health Ethics*

*Degree Awarded: Master of Science (MS)*

*Calendar Type: Quarter*

*Total Credit Hours: 45.0*

*Co-op Option: None*

*Classification of Instructional Programs (CIP) code: 51.3201*

*Standard Occupational Classification (SOC) code: 11-9111*

## About the Program

The Master of Science in Public Health Ethics will equip students with the knowledge and skills needed to identify, understand, and analyze ethical issues in public health, to disseminate new knowledge through the scholarly literature, and to work towards real-world solutions to ethical issues. Students will receive in-depth training in ethical theory and decision-making and the ethical dimensions of public health research, practice, and policy. Students will also receive training in public health systems and research methods. The program will prepare students to serve as thought-leaders in the field of public health and for job positions requiring expertise in health ethics. It will also serve as a stepping-stone for students wishing to pursue doctoral-level education in ethics.

## Major Competencies

- Investigate the historical context for and evolution of the discipline of public health ethics and its relationship to philosophy, human rights, and biomedical ethics.
- Justify public health decisions based upon data driven evidence and/or ethical theories and principles, as well as the values and beliefs of stakeholders.
- Critique specific issues and cases in public health using ethical theories.
- Analyze sociopolitical determinants of health and how they relate to philosophical theories of justice.
- Assess the ethical dimensions of contemporary public health research methods and practice.

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

Core Courses		30.0
CHP 510	Proseminar in Public Health Ethics	
CHP 512	Cases in Public Health Ethics	
CHP 513	Ethics Journal Club (0.5 credits repeated two times for credit)	
CHP 516	History of Public Health	
CHP 607	Public Health Ethics	
CHP 609	Introduction to Research Ethics	
CHP 660	Global Health Ethics	
HMP 550	Health Disparities: Systemic, Structural, Environmental & Economic	
PBHL 501	Introduction to Public Health *	
PBHL 512	Methods for Public Health Research I	
PBHL 513	Methods for Public Health Research II	
Master's Thesis		6.0
CHP 699	Master's Thesis	
Electives		9.0

Electives might include both courses that are directly ethics-related and also courses that are indirectly related to ethics. A non-exhaustive list of possible ethics-related elective courses is given below.

#### Dornsife School of Public Health

BST 555	Introduction to Statistical Computing
BST 560	Intermediate Biostatistics I
CHP 608	Animals and Public Health
CHP 650	Drug Use and Public Health
CHP 672	Theory and Practice in Health Communication
CHP 682	LGBT Health Disparities
EOH 615	Environmental and Occupational Health Policy
EOH 648	Public Health and Disaster Preparedness
EPI 500	Introduction to Epidemiology and Biostatistics
EPI 560	Intermediate Epidemiology
HMP 510	Evolution of United States Health Policy
HMP 511	Legal Aspects of Public Health
HMP 550	Health Disparities: Systemic, Structural, Environmental & Economic
HMP 551	Historical and Contemporary Developments in Social Justice
HMP 600	Public Health Advocacy and Activism
HMP 603	Health Systems Policy Analysis
HMP 802	Health and Human Rights

#### College of Nursing and Health Professions

HSAD 500	Problems and Issues in Healthcare
HSAD 505	Ethical and Legal Issues in Healthcare Management and Policy
IPS 562	Comparative Health Systems
NURS 502	Advanced Ethical Decision Making in Health Care
NURS 560	Wicked Problems in Health Care
NURS 582	Foundation of Good Clinical Practice in Clinical Trials Mngmt
NURS 584	Current Topics in Clinical Trials

#### College of Arts and Sciences

CCM 805	Seminar in Communication Ethics
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#### College of Computing and Informatics

INFO 679	Information Ethics
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#### LeBow College of Business

MGMT 670	Business Ethics
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**Total Credits** 45.0

\* PBHL 501 can be taken any quarter in the first year.

## Sample Plan of Study

Term 1	Credits Term 2	Credits Term 3	Credits Term 4	Credits
CHP 510	3.0 CHP 513	0.5 CHP 516	3.0 CHP 609	3.0
CHP 512	1.5 CHP 607	3.0 HMP 550	3.0 CHP 699	6.0
CHP 513	0.5 CHP 660	1.5 Elective	6.0	
PBHL 512	4.0 PBHL 513	4.0		
Elective	3.0 Elective	3.0		
	<b>12</b>	<b>12</b>	<b>12</b>	<b>9</b>

**Total Credits 45**

## Urban Health

*Major: Urban Health*

*Degree Awarded: Master of Public Health (MPH)*

*Calendar Type: Quarter*

*Total Credit Hours: 56.0*

*Co-op Option: None*

*Classification of Instructional Programs (CIP) code: 51.2201*

*Standard Occupational Classification (SOC) code: 11-9111*

## About the Program

The MPH in Urban Health trains students in the foundational principles of urban health science and practice. Students will learn how to develop culturally competent programs, policies, and solutions to contemporary urban health challenges, including built environment, healthy housing, and ecological concerns. Students will gain experience in using epidemiological methods and program planning and evaluation. This degree will provide students the skills, knowledge, and experience to develop a successful career in addressing today's urban health needs.

## Major Competencies:

- Apply theories and frameworks from urban social sciences to identifying social and other determinants of health and developing solutions to major urban health problems
- Collaborate to develop a presentation that explores the policies and programs that contribute to promoting the health of urban populations and reducing urban health inequalities
- Engage various constituencies including policymakers, community residents and leaders, civil society organizations, social movements, and public agencies in identifying and reducing health problems facing cities
- Identify ecological models to identify appropriate solutions to the health problems of cities at the individual, family, community, municipal, regional, national, and global levels
- Assess population data to characterize patterns of health and disease and inequalities in health in urban populations and subpopulations

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dspadvising@drexel.edu

Additional information can be found on the Drexel University Online website including how to apply (<https://www.online.drexel.edu/online-degrees/public-health-degrees/mph-urban-health/#admissionscriteria>).

## Degree Requirements

### MPH Foundation Courses

BST 571	Introduction to Biostatistics	3.0
EPI 570	Introduction to Epidemiology	3.0
HMP 505	Qualitative Data and Mixed Methods Analysis	2.0
PBHL 510	Public Health Foundations and Systems I	4.0
PBHL 511	Public Health Foundations and Systems II	4.0

### UH Foundation Courses

CHP 673	Process Monitoring and Outcomes Evaluation for Community Health Programs	3.0
EOH 642	Healthy Housing & Built Environment	3.0
EOH 550	Introduction to Urban Health	3.0
EPI 633	Urban Inequality and Health: Theory, Evidence, and Action	3.0
<b>Electives</b>		<b>25.0</b>

### Integrative Learning Experience Capstone

EOH 752	Urban Health Integrative Learning Experience Capstone	3.0
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### Applied Practical Experience

PBHL 500	Practical Experience for the Master of Public Health	0.0
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**Total Credits** 56.0

## Sample Plan of Study

### 12 Months (4-Quarter) Full Time

	Summer	Credits
	BST 571	3.0
	EPI 570	3.0
	HMP 505	2.0
	PBHL 510	4.0
	PBHL 511	4.0
		<b>16</b>

#### First Year

Fall	Credits Winter	Credits Spring	Credits
EOH 550	3.0 CHP 673	3.0 EOH 642	3.0
PBHL 500	0.0 EPI 633	3.0 EOH 752	3.0
Electives	12.0 Electives	7.0 Electives	6.0
	<b>15</b>	<b>13</b>	<b>12</b>

Total Credits 56

### 18 Months (5 Quarter) Full-Time

#### First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EOH 550	3.0 BST 571	3.0 EOH 642	3.0 VACATION	
EPI 570	3.0 CHP 673	3.0 HMP 505	2.0	
PBHL 510	4.0 PBHL 511	4.0 Electives	7.0	
	<b>10</b>	<b>10</b>	<b>12</b>	<b>0</b>

#### Second Year

Fall	Credits Winter	Credits
PBHL 500	0.0 EOH 752	3.0
Electives	12.0 EPI 633	3.0
	Electives	6.0
	<b>12</b>	<b>12</b>

Total Credits 56

### 21 Months (6 Quarter) Full-Time

#### First Year

Fall	Credits Winter	Credits Spring	Credits
EOH 550	3.0 BST 571	3.0 EOH 642	3.0
EPI 570	3.0 CHP 673	3.0 HMP 505	2.0
PBHL 510	4.0 PBHL 511	4.0 Electives	4.0
	<b>10</b>	<b>10</b>	<b>9</b>

#### Second Year

Fall	Credits Winter	Credits Spring	Credits
PBHL 500	0.0 EPI 633	3.0 EOH 752	3.0
Electives	9.0 Electives	6.0 Electives	6.0
	<b>9</b>	<b>9</b>	<b>9</b>

Total Credits 56

### 33 Months (9 Quarter) Part-Time

#### First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EPI 570	3.0 BST 571	3.0 HMP 505	2.0 VACATION	
PBHL 510	4.0 PBHL 511	4.0 Electives	4.0	
	<b>7</b>	<b>7</b>	<b>6</b>	<b>0</b>

#### Second Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EOH 550	3.0 CHP 673	3.0 EOH 642	3.0 VACATION	
PBHL 500	0.0 EPI 633	3.0 Elective	3.0	
Elective	3.0			
	<b>6</b>	<b>6</b>	<b>6</b>	<b>0</b>

#### Third Year

Fall	Credits Winter	Credits Spring	Credits
Electives	6.0 Electives	6.0 EOH 752	3.0
		Elective	3.0
	<b>6</b>	<b>6</b>	<b>6</b>

Total Credits 56

## Law (JD) / Public Health (MPH)

Major: Law and Public Health

Degree Awarded: Juris Doctor (JD) and Master of Public Health (MPH)

Calendar Type: Quarter (MPH); Semester (JD)

Total Credit Hours: 126.0

Co-op Option: Available for full-time on-campus graduate students

Classification of Instructional Programs (CIP) code: 22.0208

Standard Occupational Classification (SOC) code: 23-1011

## About the Program

The joint program in law and public health allows highly motivated students to study law and public health in an integrated manner. Students take courses at Drexel's Thomas R. Kline School of Law and Dornsife School of Public Health and earn degrees from both. In addition to acquiring basic skills in the two disciplines, students gain a unique perspective on the interrelation between them.

Students take their first year of study at the Law School where they complete the standard first-year curriculum. They spend the second and third years taking courses at both schools, including the standard core courses at the School of Public Health in the Department of Health Management and Policy. During those years, or in the summers at their option, they take a co-op in a public health law setting and complete a public health project related to it. Depending on the pace of coursework they select, students typically finish the two degrees in either three or three-and-a-half years.

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team

Office of Education

dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

#### Required Law Courses

LAW 550S	Torts	4.0
LAW 552S	Contracts	4.0
LAW 554S	Civil Procedure	4.0
LAW 556S	Property	4.0
LAW 558S	Criminal Law	4.0
LAW 555S	Legislation and Regulation	3.0
LAW 565S	Legal Methods I	3.0
LAW 566S	Legal Methods II	3.0
LAW 560S	Constitutional Law	4.0
LAW 674S	Health Care Fraud and Abuse	2.0
LAW 780S	Health Care Quality Regulation	3.0
LAW 781S	Health Care Cost and Access Regulation	3.0
LAW 782S	Health Policy Colloquium	2.0

LAW 784S	Health Care Finance	2.0
LAW 830S	Professional Responsibility	3.0
Law Electives		22.0
LAW 931S	Law Co-op	7.0
LAW 654S	Lawyering Practice Seminar	2.0
<b>Required Public Health Courses</b>		
HMP 500	Health Management and Policy I	3.0
HMP 501	Health Management and Policy II	3.0
HMP 510	Evolution of United States Health Policy	3.0
HMP 511	Legal Aspects of Public Health	3.0
HMP 512	The Business of Healthcare: Advanced Healthcare Financial Management	3.0
HMP 750	Integrative Learning Experience	2.0
HMP 751	Integrative Learning Experience II	2.0
PBHL 510	Public Health Foundations and Systems I	4.0
PBHL 511	Public Health Foundations and Systems II	4.0
PBHL 512	Methods for Public Health Research I	4.0
PBHL 513	Methods for Public Health Research II	4.0
<b>Social Determinants (select one)</b>		<b>3.0</b>
HMP 550	Health Disparities: Systemic, Structural, Environmental & Economic	
HMP 551	Historical and Contemporary Developments in Social Justice	
HMP 552	Perspectives on Gender, Race, Ethnicity, and Social Class	
HMP 554	Issues in United States Health Policy	
HMP 555	Violence, Trauma and Adversity in Public Health	
HMP 556	Public Health Leadership	
<b>Health Policy or Health Management Concentration (select one)</b>		<b>9.0</b>
<b>Health Policy Concentration</b>		
CHP 605	Outcomes and Impact Evaluation	
HMP 514	Policy Analysis for Population Health	
HMP 852	Health Economics I	
<b>Health Management Concentration</b>		
HMP 513	Healthcare Planning Principles and Practice	
HMP 515	Health Organizational Leadership	
HMP 516	Health Care Organizations and Management	
<b>Total Credits</b>		<b>126.0</b>

## Sample Plan of Study

### Health Policy Concentration

<b>First Year</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits Summer</b>	<b>Credits</b>
LAW 550S	4.0	LAW 558S	4.0 LAW 830S	3.0
LAW 552S	4.0	LAW 556S	4.0 Law Elective	3.0
LAW 554S	4.0	LAW 555S	3.0	
LAW 565S	3.0	LAW 566S	3.0	
<b>15</b>		<b>14</b>		<b>6</b>
<b>Second Year</b>				
<b>Fall</b>	<b>Credits Winter</b>	<b>Credits Spring</b>	<b>Credits Summer</b>	<b>Credits</b>
HMP 500	3.0 HMP 501	3.0 HMP 510	3.0 LAW 931S	7.0
PBHL 510	4.0 PBHL 511	4.0 HMP 512	3.0 LAW 654S	2.0
PBHL 512	4.0 PBHL 513	4.0 LAW 781S	3.0	
LAW 560S	4.0	Law Elective	6.0	
LAW 780S	3.0	PH Social Determinants Elective	3.0	
<b>18</b>		<b>11</b>		<b>18</b>
<b>Third Year</b>				
<b>Fall</b>	<b>Credits Winter</b>	<b>Credits Spring</b>	<b>Credits</b>	
HMP 514	3.0 CHP 605	3.0 LAW 784S	2.0	

HMP 750	2.0 HMP 511	3.0 LAW 782S	2.0
HMP 852	3.0 HMP 751	2.0 Law Electives	10.0
Law Electives	5.0		
<b>13</b>		<b>8</b>	

**Total Credits 126**

### Health Management Concentration

<b>First Year</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits Summer</b>	<b>Credits</b>
LAW 550S	4.0	LAW 558S	4.0 LAW 830S	3.0
LAW 552S	4.0	LAW 556S	4.0 Law Elective	3.0
LAW 554S	4.0	LAW 566S	3.0	
LAW 565S	3.0	LAW 555S	3.0	
<b>15</b>		<b>14</b>		<b>6</b>

<b>Second Year</b>				
<b>Fall</b>	<b>Credits Winter</b>	<b>Credits Spring</b>	<b>Credits Summer</b>	<b>Credits</b>
PBHL 510	4.0 PBHL 511	4.0 HMP 512	3.0 LAW 931S	7.0
PBHL 512	4.0 PBHL 513	4.0 HMP 513	3.0 LAW 654S	2.0
HMP 500	3.0 HMP 501	3.0 HMP 516	3.0	
LAW 780S	3.0	LAW 781S	3.0	
LAW 560S	4.0	Law Elective	6.0	
<b>18</b>		<b>11</b>		<b>18</b>

<b>Third Year</b>				
<b>Fall</b>	<b>Credits Winter</b>	<b>Credits Spring</b>	<b>Credits</b>	
HMP 510	3.0 HMP 511	3.0 LAW 784S	2.0	
HMP 515	3.0 PH Social Determinants Elective	3.0 LAW 782S	2.0	
HMP 750	2.0 HMP 751	2.0 Law Electives	9.0	
Law Electives	6.0			
<b>14</b>		<b>8</b>		<b>13</b>

**Total Credits 126**

## Public Health MD/MPH

*Major: Public Health / Medicine*  
*Degree Awarded: Medical Doctor (MD); Master of Public Health (MPH)*  
*Calendar Type: Quarter*  
*Total Credit Hours: 56.0*  
*Co-op Option: None*  
*Classification of Instructional Programs (CIP) code: 51.2201*  
*Standard Occupational Classification (SOC) code: 11-9111; 21-1091; 25-1071; 21-1094*

### About the Program

Drexel University College of Medicine offers a joint five-year program with Drexel University's Dornsife School of Public Health for students to pursue both a medical degree and a master's degree in public health. Most MD/MPH students complete a year of MPH coursework between the 3<sup>rd</sup> and 4<sup>th</sup> year of medical school.

In this program, students learn to be physicians with a public-health orientation. The program, built on a foundation of health and human rights, provides strong interdisciplinary training in clinical medicine and population health sciences, including community health and prevention, health care management and policy, epidemiology, biostatistics, and

environmental health. Students will choose one of the existing MPH majors to pursue and will complete the selected major requirements.

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website including how to apply. (<https://drexel.edu/dornsife/admissions/overview/>)

## Degree Requirements

### Program Requirements

Shared credits with DUCOM for medical school coursework completed	12.0
BST 571 Introduction to Biostatistics	3.0
EPI 570 Introduction to Epidemiology	3.0
HMP 505 Qualitative Data and Mixed Methods Analysis	2.0
PBHL 500 Practical Experience for the Master of Public Health	0.0
PBHL 510 Public Health Foundations and Systems I	4.0
PBHL 511 Public Health Foundations and Systems II	4.0
<b>Discipline Courses and Electives</b>	<b>24.0-33.0</b>
<b>Integrated Learning Experience</b>	<b>4.0-6.0</b>
<b>Total Credits</b>	<b>56.0-67.0</b>

## MPH/MBA Joint Degree

*Major: Public Health/Business Administration*

*Degree Awarded: Master of Public Health (MPH) and Master of Business Administration (MBA)*

*Calendar Type: Quarter*

*Total Credit Hours: 93.0*

*Co-op Option: None*

*Classification of Instructional Programs (CIP) code: 52.0201*

*Standard Occupational Classification (SOC) code: 13-1111; 11-1021; 11-9199; 11-9111*

## About the Program

The Drexel MPH/MBA joint degree provides the opportunity for students to hone their business skills while equipping them with the skills necessary to make a difference in today's public health and healthcare worlds. Over the three year plan of study, students will alternate MPH and MBA courses, allowing for integration of learning. The Drexel LeBow MBA offers a customizable, cross-disciplinary plan of study that prepares students to solve complex business problems across industries.

The rigorous, comprehensive degree program is designed to emphasize the broad perspective of business concepts through innovative coursework, experiential learning and career coaching. Grounded by a strong academic foundation in business, the program offers several opportunities to specialize and align students' specific area of interest through elective courses. The MPH with a major in Health Management and Policy provides state-of-the-art core competencies in public health and the option to concentrate in either Management or Policy, as well as extensive opportunities for community, practice, and research engagement.

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health (<https://drexel.edu/dornsife/academics/degrees/mba-mph-dual-degree/>) and LeBow College of Business (<https://www.lebow.drexel.edu/academics/graduate/degree-programs/mba/full-time-mba/>) websites.

## Degree Requirements

### Required MPH Classes

BST 571	Introduction to Biostatistics	3.0
EPI 750	Integrative Learning Experience in Epidemiology I	3.0
HMP 500	Health Management and Policy I	3.0
HMP 501	Health Management and Policy II	3.0
HMP 505	Qualitative Data and Mixed Methods Analysis	2.0
HMP 550	Health Disparities: Systemic, Structural, Environmental & Economic	3.0
HMP 750	Integrative Learning Experience	2.0
HMP 751	Integrative Learning Experience II	2.0
PBHL 500	Practical Experience for the Master of Public Health	0.0
PBHL 510	Public Health Foundations and Systems I	4.0
PBHL 511	Public Health Foundations and Systems II	4.0

### Policy Selective (select one)

HMP 510	Evolution of United States Health Policy	
HMP 511	Legal Aspects of Public Health	

### Management Selective (select one)

HMP 512	The Business of Healthcare: Advanced Healthcare Financial Management	3.0
HMP 516	Health Care Organizations and Management	

### Social Justice/Equity Selective (select one)

HMP 551	Historical and Contemporary Developments in Social Justice	3.0
HMP 552	Perspectives on Gender, Race, Ethnicity, and Social Class	
HMP 554	Issues in United States Health Policy	
HMP 555	Violence, Trauma and Adversity in Public Health	
HMP 557	Public Health and the Complexity of Mental Health Policy: Exploring Past, Present, and Future	
HMP 600	Public Health Advocacy and Activism	
HMP 601	Seminar in Fire Arms and Public Health	
HMP 602	The Politics of Food & Gender	

Free Electives		9.0
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### Required MBA Core Courses

ACCT 510	Essentials of Financial Reporting	2.0
ECON 601	Managerial Economics	3.0
FIN 601	Corporate Financial Management	3.0
MGMT 510	Business Problem Solving	3.0
MGMT 520	Strategy Analysis	2.0
MGMT 530	Managing and Leading the Total Enterprise	2.0
MGMT 770	MBA Capstone	2.0
MKTG 510	Marketing Strategy	2.0
ORGB 511	Leading in Dynamic Environments: A Personal, Relational, and Strategic Approach	3.0
ORGB 520	Leading High-Performance Teams	1.0
POM 510	Operations and Supply Chain Management	2.0
STAT 510	Introduction to Statistics for Business Analytics	2.0
Free Electives		15.0
Experiential Elective		3.0

<b>Total Credits</b>		<b>92.0</b>
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## Sample Plan of Study

### First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
EPI 750	3.0 BST 571	3.0 HMP 505	2.0 PBHL 500	0.0
HMP 500	3.0 HMP 501	3.0 Management Selective	3.0	
PBHL 510	4.0 PBHL 511	4.0 Social Justice/Equity Selective	3.0	
		Elective	3.0	
	10	10	11	0

### Second Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ACCT 510	2.0 FIN 601	3.0 ECON 601	3.0 MGMT 520	2.0
MGMT 530	2.0 MGMT 510	3.0 Electives	6.0 Experiential Elective	3.0
MKTG 510	2.0 ORGB 520	1.0	Electives	6.0
ORGB 511	3.0 Elective	3.0		
STAT 510	2.0			
	11	10	9	11

### Third Year

Fall	Credits Winter	Credits
HMP 550	3.0 HMP 751	2.0
HMP 750	2.0 MGMT 770	2.0
POM 510	2.0 Policy Selective	3.0
Elective	3.0 Elective	3.0
	10	10

Total Credits 92

## Graduate Minor in Arts and Community Health

### About the Graduate Minor

Arts are ubiquitous in human society and reflect the complexity of being human. They are keystones of civic engagement that promote health equity, activism, social inclusion, and creative problem-solving. The array of arts that relate to public health is vast. Arts and community health can involve performance arts, media arts, visual arts, writing, poetry, music, and singing, among many others. Their positive impact on health and well-being has been documented by a growing evidence base around the globe.

The graduate minor in Arts and Community Health builds on Philadelphia's renowned commitment to public art and the Dornsife School of Public Health's longstanding commitment to social justice, human rights, urban health, and neighborhood resilience. It focuses on innovation, cross-sector collaboration, and translating knowledge and research into practice and policy and includes a required practice-based course.

### Admission Requirements

The graduate minor in Arts and Community Health is open to all graduate students at Drexel University.

### Program Requirements

#### Required Courses

CHP 530	Arts for Community Health and Wellbeing	3.0
CHP 531	Community-Engaged Practice in Arts and Community Health	3.0

Electives (Choose Two) 6.0

#### Dornsife School of Public Health

CHP 550	Community Based Prevention Practices
CHP 670	Multicultural Competence in Community Health and Prevention
CHP 671	Community Organizing and Community Assessment for Health and Wellness
CHP 802	Theory & Practice of Community Health and Prevention II
CHP 806	Community Based Participatory Research
EOH 550	Introduction to Urban Health
HMP 555	Violence, Trauma and Adversity in Public Health
HMP 600	Public Health Advocacy and Activism

#### Antoinette Westphal College of Media Arts and Design

AADM 741	Arts Entrepreneurship
AADM 745	Arts in Education
AADM 746	Creative Placemaking
AADM 755	Community Cultural Planning
AADM 757	Political Activism in the Arts
URBS 610	Civic Engagement & Participatory Methods
URBS 650	Urbanism, Health & the Built Environment

#### College of Nursing and Health Professions

CATX 501	Foundations of the Creative Arts Therapies
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#### Center for Food and Hospitality Management

FOOD 605	Culture and Gastronomy
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#### School of Education

CRTV 501	Foundations in Creativity
CRTV 502	Tools and Techniques in Creativity
CRTV 660	Diagnostic Creative Intervention

Total Credits 12.0

### Additional Information

For more information about this minor, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

## Graduate Minor in Biostatistics

### About the Graduate Minor

Biostatistics is a growing discipline with a variety of employment opportunities for those trained in the field. This minor will provide a foundation in biostatistics for students with majors in other fields, allowing the student to broaden their employment opportunities upon graduation.

### Admission Requirements

All graduate students who meet the prerequisites for the core classes may pursue the minor. Admission will be done on a rolling basis.

### Program Requirements

#### Required Courses

BST 555	Introduction to Statistical Computing	3.0
BST 560	Intermediate Biostatistics I	3.0

Selective (Choose 1) 3.0

BST 553	Longitudinal Data Analysis
or BST 557	Survival Data Analysis

Electives (Choose 2) 6.0-7.0

BST 553	Longitudinal Data Analysis
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BST 557	Survival Data Analysis *
BST 558	Applied Multivariate Analysis
BST 559	Intermediate SAS
BST 561	Design & Analysis of Clinical Trials
BST 568	Nonparametric and Semiparametric Models
BST 569	Linear Statistical Models
BST 570	Generalized Linear Models
BST 604	Applied Bayesian Analysis
BST 620	Intermediate Biostatistics II
EPI 564	Data Science Using R

**Total Credits** **15.0-16.0**

\* Note: Whichever course is not selected as a selective is eligible to be an elective.

## Additional Information

For more information about this program, please contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

# Graduate Minor in Environmental and Occupational Health

## About the Graduate Minor

Graduate students who minor in Environmental and Occupational Health will gain skills and knowledge to assess and prevent health impacts from air and drinking water pollutants, climate change, the built environment, and workplace hazards. Students will learn key concepts through coursework in toxicology, epidemiology, and exposure science. After completing the minor, students will understand the effects of major biological, chemical, and physical agents on human health and safety, and how individual and population factors affect a person's susceptibility to environmental hazards. The minor will deepen a student's learning experience and provide them with a distinctive skill set to help address complex, emerging environmental health issues.

## Admission Requirements

Graduate minors are designed to complement students' training by providing basic knowledge in topics outside their primary discipline. All matriculated graduate students in quarter programs, except for students pursuing the MPH in Environmental and Occupational Health, the MS in Environmental and Occupational Health Sciences, or the PhD in Environmental and Occupational Health, are eligible to enroll in the Environmental and Occupational Health minor.

Students must receive prior approval from their program and complete the minor form in order to formally enroll in this minor.

## Program Requirements

### Required Courses

EOH 510	Principles and Practice of Environmental and Occupational Health	3.0
EOH 610	Environmental and Occupational Toxicology	3.0
or EOH 810	Environmental and Occupational Toxicology	
EOH 612	Environmental Exposure Science	3.0

or EOH 812	Environmental Exposure Science	
<b>Elective</b>		<b>3.0</b>
Choose one of the following courses		
EOH 550	Introduction to Urban Health	
EOH 560	Overview of Issues in Global Health	
EOH 563	Injury Prevention and Control	
EOH 564	Safety in Healthcare	
EOH 580	Fundamentals of Industrial Hygiene	
EOH 605	Evidence Evaluation for Identification of Environmental Hazards	
or EOH 805	Evidence Evaluation for Identification of Environmental Hazards	
EOH 615	Environmental and Occupational Health Policy	
or EOH 815	Environmental and Occupational Health Policy	
EOH 625	Occupational and Environmental Epidemiology	
or EOH 825	Occupational and Environmental Epidemiology	
EOH 642	Healthy Housing & Built Environment	
EOH 646	Environmental Health in Vulnerable Populations	
EOH 648	Public Health and Disaster Preparedness	
EOH 649	Occupational and Environmental Cancers	
EOH 650	Microbes in Public Health Practice I: Overview of Bacterial Pathogens	
EOH 651	Microbes in Public Health Practice II: Overview of Viral and Other Pathogens	
EOH 655	Infection Prevention and Control in the Healthcare Environment	
EOH 657	Public Health Impacts of Global Climate Change	
EOH 658	Crisis and Risk Communication in Public Health	
EOH 665	Quantitative Risk Analysis for Environmental Health	
EOH 725	Seminar in Environmental Epidemiology	
or EOH 830	Seminar in Environmental Epidemiology	

**Total Credits** **12.0**

## Additional Information

For more information about this graduate minor, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

# Graduate Minor in Global Health

## About the Graduate Minor

The graduate minors are designed to complement a student's training by providing basic knowledge in topics outside their primary discipline.

The graduate minor in Global Health is intended for graduate students who are interested in gaining knowledge and skills in global health. Students are required to take one foundational course and three elective courses. Through the structured curriculum, students will gain global health competencies.

## Admission Requirements

The graduate minor in Global Health is open to current Drexel graduate students.

## Program Requirements

### Required Courses

EOH 560	Overview of Issues in Global Health	3.0
<b>Electives *</b>		<b>9.0</b>



CHP 518	Global Issues in Maternal and Child Health
CHP 660	Global Health Ethics
CHP 661	Monitoring and Evaluation in Global Health Programs and Advocacy
CHP 681	Research with Rare, Stigmatized and Hidden Populations
CHP 682	LGBT Health Disparities
CHP 683	Intersectional Perspectives
CHP 692	Migration and Health
EOH 646	Environmental Health in Vulnerable Populations
EOH 648	Public Health and Disaster Preparedness
EOH 654	Microbes and Public Health Practice
EOH 657	Public Health Impacts of Global Climate Change
HMP 603	Health Systems Policy Analysis
<b>Total Credits</b>	<b>12.0</b>

\* Additional courses may count towards the elective requirement with Program Director approval.

## Additional Information

For more information about this minor, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

## Graduate Minor in Health Economics

### About the Graduate Minor

The minor in Health Economics is a 12.0 credit curriculum designed by the Dornsife School of Public Health, in partnership in the LeBow College of Business, to give graduate students economic-based skills to assess health, healthcare services, policies, and interventions. Students are required to take two core health economics courses and select two additional courses to develop additional economic understanding.

### Admission Requirements

Any matriculated graduate student is eligible to enroll in this minor.

### Program Requirements

#### Required Coursework

HMP 852	Health Economics I	3.0
HMP 853	Health Economics II	3.0
Electives (select two)		6.0
ECON 540	Intro to Econometrics and Data Analysis	
ECON 550	Econometrics	
ECON 601	Managerial Economics	
ECON 610	Microeconomics	
ECON 616	Public Finance and Cost Benefit Analysis	
HMP 815	Cost Benefit Analysis for Health Services	
STAT 601	Business Statistics	
STAT 610	Statistics for Business Analytics	
<b>Total Credits</b>		<b>12.0</b>

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

## Graduate Minor in Human Health Risk Assessment

### About the Graduate Minor

Risk assessments are performed to evaluate and quantify human health risks from hazardous environmental exposures, often to support decision-making or regulation. Exposures of importance include chemicals, radiation, and infectious agents. The graduate minor in Human Health Risk Assessment is designed to give graduate students who are specializing in public health, engineering, or other fields the knowledge and technical skills needed to conduct introductory-level risk assessments. Evidence evaluation and quantitative risk analysis will be taught, utilizing data from case studies of hazards in the environment (water and air), the workplace, food, and consumer products. Students will have the opportunity to apply risk assessment approaches to an independent project in the culminating course of the program.

### Admission Requirements

Graduate minors are designed to complement students' training by providing basic knowledge in topics outside their primary discipline. All matriculated graduate students in quarter programs are eligible to enroll in the Human Health Risk Assessment minor. Completion of a college-level statistics course with a grade of C or higher is recommended for this minor.

Students must receive prior approval from their program and complete the minor form in order to formally enroll in this minor.

### Program Requirements

<b>Required Courses *</b>		<b>9.0</b>
EOH 605	Evidence Evaluation for Identification of Environmental Hazards	
EOH 665	Quantitative Risk Analysis for Environmental Health or ENVE 727 Risk Assessment	
EOH 695	Applied Human Health Risk Assessment	
<b>Elective **</b>		<b>3.0</b>
Please Choose one of the following		
BST 551	Statistical Inference I	
CHP 500	Behavior and Social Change Theories	
ENVE 750	Data-based Engineering Modeling	
ENVP 572	Environmental Policy	
ENVS 506	Biostatistics	
ENVS 726	Environmental Assessment	
EOH 510	Principles and Practice of Environmental and Occupational Health	
EOH 610	Environmental and Occupational Toxicology or EOH 810 Environmental and Occupational Toxicology	
EOH 612	Environmental Exposure Science or EOH 812 Environmental Exposure Science	
EOH 615	Environmental and Occupational Health Policy	

or EOH 815 Environmental and Occupational Health Policy		
EOH 625	Occupational and Environmental Epidemiology	
or EOH 825 Occupational and Environmental Epidemiology		
EOH 658	Crisis and Risk Communication in Public Health	
EPI 500	Introduction to Epidemiology and Biostatistics	
HMP 500	Health Management and Policy I	
<b>Total Credits</b>		<b>12.0</b>

\* Completion of a college-level statistics course with a grade of C or higher is recommended for this minor.

\*\* Students may substitute another elective for those in the elective list, with the permission of the Program Director.

## Additional Information

For more information about this graduate minor, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

# Graduate Minor in Infectious Disease and Population Health

## About the Graduate Minor

The graduate minor in Infectious Disease and Population Health trains students in population-based approaches to infectious disease control. The minor is intended to prepare students to work in health care settings, public health agencies, the pharmaceutical sector, and other organizations engaged in work related to the prevention and control of infectious diseases. Required courses in microbiology and selectives in infectious disease epidemiology, health-care associated infections, and health surveillance may be supplemented by electives in epidemiology, health communication, management and leadership, and patient safety. The courses in this minor provide a bridge to the student's discipline-specific major and opportunities to acquire skills needed in the workplace.

For students interested in pursuing a career in infectious disease in either the health care or public health sector, it is recommended that students complete an applied experience through an internship or a research project in an appropriate workplace setting.

## Admission Requirements

Graduate minors are designed to complement students' training by providing basic knowledge in topics outside their primary discipline. All matriculated graduate students in quarter programs are eligible to enroll in the Infectious Disease and Population Health minor. It is highly recommended that students have taken college-level biology and immunology classes.

Students must receive prior approval from their program and complete the minor form in order to formally enroll in this minor.

## Program Requirements

<b>Required Courses</b>		
EOH 650	Microbes in Public Health Practice I: Overview of Bacterial Pathogens	3.0

EOH 651	Microbes in Public Health Practice II: Overview of Viral and Other Pathogens	3.0
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### Selectives **3.0**

Choose one or two selective classes (3 or 6 credits)

EOH 655	Infection Prevention and Control in the Healthcare Environment	
EPI 553	Infectious Disease Epidemiology	
EPI 561	Pathophysiologic Basis of Epidemiologic Research	
EPI 569	Disease Outbreak Investigations	
EPI 610	Public Health Surveillance	

### Elective (if only choosing 1 selective) **3.0**

Students must contact the EOH Department Program Manager for a list of approved electives.

**Total Credits** **12.0**

## Additional Information

For more information about this graduate minor, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

# Graduate Minor in Latino and Immigrant Health

## About the Graduate Minor

Globalization, economic inequalities, civil unrest, terrorism, climate change, and other factors are resulting in ever-larger global population movements with significant public health implications for nations at all stages of migration pathways.

The Latino/Immigrant Health graduate minor allows students to explore the unique public health needs of immigrant and migrant communities with emphasis on, but not limited to, Latino immigrants to the US. Coursework will cover priority health issues and health disparities affecting migrant and immigrant populations, the public health implications of international migration, explanatory and intervention theories of immigration and immigrant health, and intervention approaches to improve the health of migrants in communities of origin, transit, and destination. The minor also addresses key methodological and ethical issues related to conducting research and practicing public health among foreign-born and mobile populations. The minor emphasizes the unique health concerns of Latino immigrants in the US and reviews successful strategies to work with Latino communities along the migration continuum. Students also will have the opportunity to connect and intern with organizations that serve immigrants and refugees.

## Admission Requirements

- The graduate minor in Latino and Immigrant Health (LIGM) is open to all graduate students at Drexel University.
- Students must have permission from their academic advisor to enroll in the LIGM graduate minor.

## Program Requirements

<b>Required Courses:</b>		
CHP 681	Research with Rare, Stigmatized and Hidden Populations	3.0
CHP 683	Intersectional Perspectives	3.0
CHP 691	Public Health Practice in and with Latino Communities	3.0

CHP 692	Migration and Health	3.0
<b>Total Credits</b>		<b>12.0</b>

MPH students who pursue this graduate minor can, but are not required to, complete their practical experience in an organization that provides services to immigrants and/or focus on a project that relates directly to a health concern affecting Latinos or other immigrant populations. If this option is desired by the student and approved by their graduate advisor and academic department, the faculty lead of the minor will assist with connecting the student with an immigrant-serving organization in which to conduct their practical experience.

## Additional Information

For more information about this minor, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

# Graduate Minor in Lesbian, Gay, Bisexual and Transgender (LGBT) Health

## About the Graduate Minor

Lesbian, Gay, Bisexual, and Transgender (LGBT) populations hold a unique set of health concerns often unrecognized in standard health and public health practice. Drexel's minor in LGBT Health focuses on these concerns recognizing the greater burden of disease these populations sometimes experience as well as the protective characteristics these communities often possess. The minor:

- Reviews the current state of knowledge about LGBT health,
- Critiques research methods used to study sexual and gender minorities, and
- Highlights the intersection between sexual orientation, sex, gender identity, race/ethnicity, age, and other factors on health.

## Admission Requirements

- The graduate minor in LGBT Health is open to all Drexel graduate students.
- Students must have permission from their academic advisor to enroll in the LGBT minor.

## Program Requirements

Required Courses		
CHP 681	Research with Rare, Stigmatized and Hidden Populations	3.0
CHP 682	LGBT Health Disparities	3.0
CHP 683	Intersectional Perspectives	3.0
Elective (Select one) *		3.0
CHP 500	Behavior and Social Change Theories	
CHP 501	Community Engagement in Public Health Practice & Research	
CHP 503	Multi-Method Data Analysis in Community Health & Prevention	
<b>Total Credits</b>		<b>12.0</b>

\* Note: CHP 503 is a 4.0 credit course.

## Additional Information

For more information about this minor, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

# Graduate Minor in Maternal and Child Health

## About the Graduate Minor

The Maternal and Child Health (MCH) graduate minor is designed to prepare students for work to improve the health of women, children, adolescents, and families. The minor takes a life-course perspective and focuses on areas such as global health, women's reproductive health, perinatal epidemiology, children and youth with special health care needs, autism spectrum disorders, family-centered maternal and pediatric care, breast feeding, nutrition, health communication, program evaluation, health disparities, the role of technology in health care, and MCH policy.

Students accepted into this minor program will be assigned a faculty advisor from the school's MCH program, a multidisciplinary coalition of faculty, community partners, and students with backgrounds in community health and prevention, health management and policy, epidemiology, environmental and occupational health, nursing, nutrition, social work, medicine, and technology based on mutual student and faculty interest. Students accepted into the MCH graduate minor program are designated as MCH Catalyst trainees as the MCH minor is a component of the HRSA/MCH MCH Public Health Catalyst Training Program (<https://mchb.hrsa.gov/training/projects.asp?program=31>) at the Dornsife School of Public Health.

Students develop skills in critical thinking, application, and analysis of maternal and child health issues through achieving nationally recognized MCH Leadership Competencies (<https://mchb.hrsa.gov/training/leadership-00.asp>). As MCH Catalyst trainees, students in this program will also be afforded additional MCH opportunities both within Drexel and nationally through HRSA/MCHB. Graduates of this training program are poised for entry into the MCH workforce or related doctoral programs.

## Admission Requirements

- The graduate minor in Maternal and Child Health is open to all graduate students at Drexel University.
- Students must have permission from their academic advisor to enroll in the Maternal and Child Health minor.
- There are no prerequisites required for this minor.

## Program Requirements

Required Courses: *		
CHP 517	Overview of Maternal and Child Health	3.0
CHP 518	Global Issues in Maternal and Child Health	3.0
Electives (students must select two courses from the list below):		6.0
CHP 501	Community Engagement in Public Health Practice & Research	
CHP 670	Multicultural Competence in Community Health and Prevention	
CHP 671	Community Organizing and Community Assessment for Health and Wellness	

CHP 672	Theory and Practice in Health Communication
CHP 673	Process Monitoring and Outcomes Evaluation for Community Health Programs
CHP 681	Research with Rare, Stigmatized and Hidden Populations
CHP 682	LGBT Health Disparities
CHP 683	Intersectional Perspectives
EOH 560	Overview of Issues in Global Health
EOH 642	Healthy Housing & Built Environment
EOH 646	Environmental Health in Vulnerable Populations
EPI 552	Epidemiology for Public Health Practice
EPI 556	Perinatal Epidemiology
EPI 572	Design and Analysis of Epidemiological Studies
HMP 510	Evolution of United States Health Policy
HMP 511	Legal Aspects of Public Health
HMP 550	Health Disparities: Systemic, Structural, Environmental & Economic
HMP 551	Historical and Contemporary Developments in Social Justice
HMP 552	Perspectives on Gender, Race, Ethnicity, and Social Class
HMP 554	Issues in United States Health Policy
HMP 555	Violence, Trauma and Adversity in Public Health
HMP 600	Public Health Advocacy and Activism
HMP 650	Management of Healthcare Outcomes
HMP 652	Change Management in Public Health
HMP 654	Public Health Funding & Program Development
HMP 655	Coordinating a Population's Care
IPS 510	Reproductive Women's Health Across the Life Cycle
NFS 640	Nutrition of the Schoolchild
<b>Total Credits</b>	<b>12.0</b>

## Additional Information

For more information about this minor, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

## Graduate Minor in Program Monitoring and Evaluation

### About the Graduate Minor

For people who fund, plan, or implement public health programs, their questions often include: What outcomes do you expect?; How will you know if you achieved the desired outcomes? and; For programs that have been implemented, what evidence can you provide that they are having intended effects? The minor in Health Program Monitoring and Evaluation prepares students to develop, improve, and critique public health programs using quantitative and qualitative evaluation methods that can be applied in governmental or non-governmental agencies and in domestic or global contexts. In addition to required courses, students are encouraged to take additional advanced research methods courses and to build practical evaluation experience into their graduate studies by working with faculty on a community-based evaluation project as part of their integrated learning experience.

## Admission Requirements

All graduate students may pursue the minor. To be eligible, students must receive approval from their home department/academic advisor and the director of the Program Monitoring & Evaluation minor.

## Program Requirements

Required courses		
CHP 550	Community Based Prevention Practices	3.0
CHP 673	Process Monitoring and Outcomes Evaluation for Community Health Programs	3.0
CHP 805	Outcomes and Impact Evaluation	3.0
CHP 808	Measuring Health	3.0
<b>Total Credits</b>		<b>12.0</b>

## Additional Information

For more information about this minor, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

## Graduate Minor in Public Health Emergency Preparedness

### About the Graduate Minor

The graduate minor in Public Health Emergency Preparedness is designed for graduate students who are interested in gaining knowledge and skills in the public health aspects of preparedness and response to emergencies that impact the health of communities. Students are required to take two core courses and two electives. Through this structured curriculum, students will gain public health preparedness competencies. The minor is intended to prepare students for work in emergency and disaster preparedness positions in government, health care, and non-profit organizations.

## Admission Requirements

Graduate minors are designed to complement students' training by providing basic knowledge in topics outside their primary discipline. All matriculated graduate students in quarter programs are eligible to enroll in the Public Health Emergency Preparedness minor.

Students must receive prior approval from their program and complete the minor form in order to formally enroll in this minor.

## Program Requirements

Required Courses		
EOH 648	Public Health and Disaster Preparedness	3.0
EOH 658	Crisis and Risk Communication in Public Health	3.0
<b>Electives</b>		<b>6.0</b>

Choose two of the following courses.

CHP 607	Public Health Ethics
COM 536	Strategic Social Media Communication
EOH 563	Injury Prevention and Control
EOH 605	Evidence Evaluation for Identification of Environmental Hazards

or EOH 805 Evidence Evaluation for Identification of Environmental Hazards

EOH 615	Environmental and Occupational Health Policy or EOH 815 Environmental and Occupational Health Policy
EOH 646	Environmental Health in Vulnerable Populations
EOH 650	Microbes in Public Health Practice I: Overview of Bacterial Pathogens
EOH 651	Microbes in Public Health Practice II: Overview of Viral and Other Pathogens
EOH 657	Public Health Impacts of Global Climate Change
EPI 552	Epidemiology for Public Health Practice
EPI 553	Infectious Disease Epidemiology
EPI 569	Disease Outbreak Investigations
HMP 511	Legal Aspects of Public Health
HMP 513	Healthcare Planning Principles and Practice
HMP 556	Public Health Leadership
HMP 703	Introduction to GIS for Public Health
INFO 517	Principles of Cybersecurity
INFO 540	Perspectives on Information Systems
INFO 648	Healthcare Informatics
INFO 725	Information Policy and Ethics
<b>Total Credits</b>	<b>12.0</b>

## Additional Information

For more information about this graduate minor, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

# Graduate Minor in Public Health Ethics and History

## About the Graduate Minor

This graduate minor will strengthen students' critical thinking skills and their knowledge of public health history and ethics, enabling them to more effectively and thoughtfully perform their primary jobs as professionals in public health practice. For students intending to pursue an academic career in public health, the minor will be of additional value because academics in public health, regardless of their specialty, are thought-leaders who should understand and be conversant in the field's history, current points of ethical controversy, and the many ways in which these are influenced by conceptual assumptions, value judgments, and historical events. For students with a primary interest in the history and ethics of health professions, this minor will be of value because it will provide a foundation for careers in health care ethics (e.g., positions relating to human or animal research protections and legal or professional ethics) or for entrance into doctoral programs in the humanities or other interdisciplinary programs with an emphasis on ethics and policy.

## Admission Requirements

To participate in the graduate minor, students must receive approval from their home department/academic advisor and the program director. During the first year of their MPH, interested students must declare intent to enroll in the minor and will be assigned a program advisor. Students must be in good standing to add this minor.

## Program Requirements

### Requirements (Option 1)

CHP 516	History of Public Health	3.0
CHP 607	Public Health Ethics	3.0
Please select two courses from the options below: *		6.0
CHP 608	Animals and Public Health	
CHP 681	Research with Rare, Stigmatized and Hidden Populations	
CHP 682	LGBT Health Disparities	
HMP 550	Health Disparities: Systemic, Structural, Environmental & Economic	
HMP 551	Historical and Contemporary Developments in Social Justice	
HMP 552	Perspectives on Gender, Race, Ethnicity, and Social Class	
<b>Total Credits</b>		<b>12.0</b>

\* Courses that are not listed (including special topics courses) may be taken upon approval from the program director.

### Requirements (Option 2)

CHP 516	History of Public Health	3.0
CHP 607	Public Health Ethics	3.0
Integrative Learning Experience *		3.0
CHP 750	Integrative Learning Experience in Community Health & Prevention I	3.0
	or CHP 751 Integrative Learning Experience in Community Health & Prevention II	
Please select one course from the options below: **		3.0
CHP 608	Animals and Public Health	
CHP 681	Research with Rare, Stigmatized and Hidden Populations	
CHP 682	LGBT Health Disparities	
HMP 550	Health Disparities: Systemic, Structural, Environmental & Economic	
HMP 551	Historical and Contemporary Developments in Social Justice	
HMP 552	Perspectives on Gender, Race, Ethnicity, and Social Class	
<b>Total Credits</b>		<b>15.0</b>

\* The Integrative Learning Experience must be related to Public Health Ethics and History and must be approved by the program director.

\*\* Courses that are not listed (including special topics courses) may be taken upon approval from the program director.

## Additional Information

For more information about this minor, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

# Graduate Minor in Social Justice Policy

## About the Graduate Minor

The Graduate Minor in Social Justice Policy is a 12-credit cohesive and intensive course of study that builds knowledge of the principles of social and deliberative justice, equity, and ethics, and develops skills in applying these principles to enhance individual and population health. Students learn ways to assure that organizational priorities and strategies focus on improving and maintaining health as a basic human right. Students are

required to take four courses from a selection of course offerings of the Dornsife School of Public Health.

## Admission Requirements

Matriculated graduate students across the University are eligible to enroll.

## Program Requirements

### Required Courses

HMP 550	Health Disparities: Systemic, Structural, Environmental & Economic	3.0
HMP 551	Historical and Contemporary Developments in Social Justice	3.0

### Electives: Select two 6.0

CHP 607	Public Health Ethics
CHP 683	Intersectional Perspectives
EOH 615	Environmental and Occupational Health Policy
EOH 646	Environmental Health in Vulnerable Populations
HMP 511	Legal Aspects of Public Health
HMP 514	Policy Analysis for Population Health
HMP 600	Public Health Advocacy and Activism
HMP 603	Health Systems Policy Analysis
HMP 802	Health and Human Rights

**Total Credits 12.0**

## Additional Information

For more information about this minor, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

## Graduate Minor in Substance Use and Misuse

### About the Graduate Minor

The Graduate Minor in Substance Use and Misuse will focus on key issues relating to the history, epidemiology, and study of drug use. This will include examination of drug policies, public health outcomes linked to substance use/misuse, and characteristics of marginalized individuals/communities who use. Students will gain understanding of the economic, cultural, and health-related contexts of drug use, including consideration of intersects between drug use and homelessness, incarceration, HIV/AIDS, viral hepatitis, mental health, violence, and health disparities.

Coursework will address the use of qualitative and quantitative methods to investigate the public health effects to drug use and prevention, intervention, and treatment strategies and policies for addressing substance use and misuse. This includes consideration of the use of illegal drugs, such as marijuana, heroin, and cocaine; legal drugs, such as alcohol and tobacco/nicotine; and prescription drugs, such as pharmaceutical opioids, tranquilizers, and stimulants.

Morbidity and mortality associated with substance use and misuse is a top public health concern, reflecting the impacts of drug dependence and overdose, drug-use-associated transmission of infectious diseases, and the overuse of prescription opioids in managing chronic pain associated with cancer and other conditions.

## Admission Requirements

- The Substance Use and Misuse minor is open to all graduate students.
- Students must have permission from the graduate advisors to enroll in this minor.

## Program Requirements

### Required Courses:

CHP 650	Drug Use and Public Health	3.0
CHP 681	Research with Rare, Stigmatized and Hidden Populations	3.0
CHP 804	Qualitative Research in Community Health	3.0
CHP 815	Advanced Topics in Qualitative Analysis & Manuscript Development	3.0

**Total Credits 12.0**

## Additional information

For more information about this minor, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

## Graduate Minor in Urban Health

### About the Graduate Minor

The Graduate Minor in Urban Health will provide students with fundamental knowledge and skills necessary to describe health in cities and other urban areas, understand and analyze the drivers of health in urban areas, identify and evaluate effective strategies to improve urban health, collaborate with interdisciplinary teams to address urban health issues, and to communicate key factors and policies contributing to urban health with diverse stakeholders.

## Admission Requirements

Graduate minors are designed to complement students' training by providing basic knowledge in topics outside their primary discipline. All matriculated graduate students in quarter programs, except for students pursuing the Urban Health MPH, are eligible to enroll in the Urban Health minor.

Students must receive prior approval from their program and complete the minor form in order to formally enroll in this minor.

## Program Requirements

### Required Courses

EOH 550	Introduction to Urban Health	3.0
EPI 563	Interprofessional Collaboration for Urban Health	3.0

### Methods Elective 3.0

Choose one of the following

CHP 804	Qualitative Research in Community Health
EPI 558	Making Sense of Data
HMP 703	Introduction to GIS for Public Health
URBS 610	Civic Engagement & Participatory Methods
URBS 630	Spatial Reasoning for Urbanists, Architects & Designers

### Substantive Elective 3.0

Choose one of the following

EOH 563	Injury Prevention and Control
EOH 648	Public Health and Disaster Preparedness
EOH 657	Public Health Impacts of Global Climate Change
URBS 520	What is a City
URBS 650	Urbanism, Health & the Built Environment
<b>Total Credits</b>	<b>12.0</b>

## Additional Information

For more information about this graduate minor, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Dornsife School of Public Health website.

# Certificate in Epidemiology and Biostatistics

*Certificate Level: Graduate*

*Admission Requirements: Bachelor's degree*

*Certificate Type: Post-Baccalaureate*

*Number of Credits to Completion: 9.0*

*Instructional Delivery: Online*

*Calendar Type: Quarter*

*Expected Time To Completion: 1 year*

*Financial Aid Eligibility: Not aid eligible*

*Classification of Instructional Program (CIP) Code: 26.1309*

*Standard Occupational Classification (SOC) Code: 19-1041*

## About the Program

Drexel's online Certificate in Epidemiology and Biostatistics is a graduate level, interdisciplinary program designed for working professionals coming from a variety of backgrounds including physicians, nurses, public health administrators, health educators, clinical research professionals, policy experts, and more. Students will learn about concepts and methods in epidemiology and biostatistics and how to apply them to real-world problems. Students will also learn techniques for describing, summarizing and analyzing data, assessing associations among variables, and determining the extent to which chance may or may not be influencing the observed results.

Never before has disease prevention and health promotion been more important. As public health issues arise in the US and globally, those who can apply knowledge gained through research to real-world problems are in great demand across all sectors: health care, pharmaceuticals, governmental and non-governmental agencies, business, and academia.

## About the Curriculum

The certificate program provides research-oriented training in the theory and tools of epidemiology and biostatistics, two of the core public health disciplines.

Students learn the principles of epidemiology and biostatistics and gain skills in using epidemiologic and biostatistical tools to describe, monitor, and investigate the drivers of population health. A statistical background is needed to conduct research, develop hypotheses, analyze data, and interpret and communicate results.

The curriculum reflects core epidemiological and biostatistical concepts and practices in a similar manner to the full-time and executive MPH programs. The online format allows asynchronous learning while providing flexibility for adult learners constrained by physical and time limitations.

## Admission Requirements

Applicants to the online Certificate in Epidemiology and Biostatistics program must meet the following requirements:

- Bachelor's degree from a regionally accredited institution
- Working knowledge of and access to a PC, high-speed connection to Internet, and MS Office applications
- Ability to download free versions of Adobe Acrobat Reader, Skype, and/or VSee teleconferencing applications
- Demonstrated interest or work experience in public health

## Program Requirements

Requirements		
BST 571	Introduction to Biostatistics	3.0
EPI 570	Introduction to Epidemiology	3.0
EPI 572	Design and Analysis of Epidemiological Studies	3.0
<b>Total Credits</b>		<b>9.0</b>

## Sample Plan of Study

First Year			
Fall	Credits Winter	Credits Spring	Credits
EPI 570	3.0 BST 571	3.0 EPI 572	3.0
	<b>3</b>	<b>3</b>	<b>3</b>
<b>Total Credits</b>			<b>9</b>

## Additional Information

For more information about this program, please contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Drexel University Online (<https://www.online.drexel.edu/online-degrees/public-health-degrees/cert-epi-bio/>) website including how to apply (<https://www.online.drexel.edu/online-degrees/public-health-degrees/cert-epi-bio/#admissionscriteria>).

# Certificate in Global Health

*Certificate Level: Graduate*

*Admission Requirements: Bachelor's degree*

*Certificate Type: Post-Baccalaureate*

*Number of Credits to Completion: 15.0*

*Instructional Delivery: Online*

*Calendar Type: Quarter*

*Expected Time to Completion: 1 year*

*Financial Aid Eligibility: Aid eligible*

*Classification of Instructional Program (CIP) Code: 51.2210*

*Standard Occupational Classification (SOC) Code: 21-1091*

## About the Program

This online Certificate in Global Health is designed to train post-baccalaureate students and public health professionals for a career in global health and development including in international settings. The program stresses the development of analytic and technical skills

required for pursuing further work in the growing areas of global health and international development. The curriculum focuses on designing, implementing, and evaluating programs in underserved communities in the US and international/developing countries. Students will learn to translate theory into practical applications to current global health and developmental challenges. Online course materials are designed for the adult learner.

## Admission Requirements

Applicants to the online Certificate in Global Health program must meet the following requirements:

- Complete application form
- Bachelor's degree from a regionally accredited institution
- Working knowledge of and access to a PC, high-speed connection to the Internet, and MS Office applications
- Ability to download free versions of Adobe Acrobat Reader, Skype, and/or VSee teleconferencing applications

## Program Requirements

### Required Courses

CHP 607	Public Health Ethics	3.0
CHP 660	Global Health Ethics	1.5
CHP 661	Monitoring and Evaluation in Global Health Programs and Advocacy	1.5
CHP 673	Process Monitoring and Outcomes Evaluation for Community Health Programs	3.0
EOH 560	Overview of Issues in Global Health	3.0
HMP 603	Health Systems Policy Analysis	3.0
<b>Total Credits</b>		<b>15.0</b>

Note: Introductory Public Health Learning Objectives: PBHL 501 is a required prerequisite course for students who do not have a degree from a CEPH accredited school.

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dspadvising@drexel.edu

Additional information can be found on the Drexel University Online website including how to apply (<https://www.online.drexel.edu/online-degrees/public-health-degrees/cert-globalhealth/#admissionscriteria>).

## Certificate in Infectious Disease Prevention and Control

*Certificate Level: Graduate*

*Admission Requirements: Bachelor's degree*

*Certificate Type: Post-Baccalaureate*

*Number of Credits to Completion: 18.0*

*Instructional Delivery: Online*

*Calendar Type: Quarter*

*Expected Time To Completion: 1 year*

*Financial Aid Eligibility: Aid eligible as of Fall 2020 term*

*Classification of Instructional Program (CIP) Code: 26.0509*

*Standard Occupational Classification (SOC) Code:*

## About the Program

The certificate in Infectious Disease Prevention and Control is intended to prepare students to work in healthcare settings, public health agencies, the pharmaceutical sector, and other organizations engaged in work related to the prevention and control of infectious diseases. The certificate integrates relevant courses in epidemiology, infectious diseases, and patient safety.

The certificate is offered entirely online to provide qualified students and working professionals with an opportunity to acquire these credentials regardless of restrictions in time and physical location. Those who successfully complete the certificate program and wish to broaden their scope of public health education could pursue an MPH degree program.

## Admission Requirements

Applicants to the certificate in Infectious Disease Prevention and Control program must meet the following requirements:

- Bachelor's degree from a regionally accredited institution
- Working knowledge of and access to a PC, high-speed connection to Internet, and MS Office applications
- Ability to download free versions of Adobe Acrobat Reader, Skype, and/or VSee teleconferencing applications
- Demonstrated interest or work experience in public health

## Program Requirements

### Required Courses

EOH 650	Microbes in Public Health Practice I: Overview of Bacterial Pathogens	3.0
EOH 651	Microbes in Public Health Practice II: Overview of Viral and Other Pathogens	3.0
EOH 655	Infection Prevention and Control in the Healthcare Environment	3.0
EPI 553	Infectious Disease Epidemiology	3.0
EPI 570	Introduction to Epidemiology	3.0
IPS 544	Quality and Safety in Healthcare	3.0
<b>Total Credits</b>		<b>18.0</b>

## Sample Plan of Study

### First Year

Fall	Credits Winter	Credits Spring	Credits
EOH 650	3.0 EOH 651	3.0 EPI 553	3.0
EPI 570	3.0 EOH 655	3.0 IPS 544	3.0
	<b>6</b>	<b>6</b>	<b>6</b>

**Total Credits 18**

## Additional Information

For more information about this certificate, contact:

DSPH Academic Advising Team  
Office of Education  
dspadvising@drexel.edu

Additional information can be found on the Drexel University Online website including how to apply (<https://www.online.drexel.edu/online-degrees/public-health-degrees/cert-infectious-disease-control/#admissionscriteria>).



## Certificate in Lesbian, Gay, Bisexual and Transgender (LGBT) Health

*Certificate Level: Graduate*

*Admission Requirements: Bachelor's degree*

*Certificate Type: Post-Baccalaureate*

*Number of Credits to Completion: 9.0*

*Instructional Delivery: Online*

*Calendar Type: Quarter*

*Expected Time to Completion: 1 year*

*Financial Aid Eligibility: Not aid eligible*

*Classification of Instructional Program (CIP) Code: 51.2207*

*Standard Occupational Classification (SOC) Code: 21-1091*

### About the Program

The Certificate in Lesbian, Gay, Bisexual and Transgender (LGBT) Health program is designed to address the complex issues confronting the health disparities and health-seeking behaviors of LGBT people. The sequence of courses examines health disparities, research, sampling, and measurement methodologies involved in the study of LGBT populations, and the intersections of social identities/inequalities, such as those based on ethnicity, sexual orientation, and sex/gender, among others.

The program is offered entirely online and in a flexible format to provide qualified students and health professionals with an opportunity to acquire these credentials regardless of restrictions in time and physical location. Those who successfully complete the certificate program and wish to broaden their scope of public health education could pursue an MPH degree program.

### Admission Requirements

Applicants to the Certificate in Lesbian, Gay, Bisexual and Transgender (LGBT) Health program must meet the following requirements:

- Bachelor's degree from a regionally accredited institution
- Working knowledge of and access to a PC, high-speed connection to Internet, and MS Office applications
- Ability to download free versions of Adobe Acrobat Reader, Skype, and/or VSee teleconferencing applications
- Demonstrated interest or work experience in public health

### Program Requirements

#### Required Courses

CHP 681	Research with Rare, Stigmatized and Hidden Populations	3.0
CHP 682	LGBT Health Disparities	3.0
CHP 683	Intersectional Perspectives	3.0
<b>Total Credits</b>		<b>9.0</b>

### Sample Plan of Study

#### First Year

Fall	Credits
CHP 681	3.0
CHP 682	3.0
CHP 683	3.0
<b>Total Credits 9</b>	

### Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Drexel University Online website including how to apply (<https://www.online.drexel.edu/online-degrees/public-health-degrees/cert-lgbt/#admissionscriteria>).

## Certificate in Maternal and Child Health

*Certificate Level: Graduate*

*Admission Requirements: Bachelor's degree*

*Certificate Type: Post-Baccalaureate*

*Number of Credits to Completion: 18.0*

*Instructional Delivery: Online*

*Calendar Type: Quarter*

*Expected Time to Completion: 1-2 years*

*Financial Aid Eligibility: Aid eligible*

*Classification of Instructional Program (CIP) Code: 51.2209*

*Standard Occupational Classification (SOC) Code: 21-1094*

### About the Program

The goal of the online Maternal and Child Health (MCH) Certificate is to provide MCH practitioners desiring accessible training in MCH with core knowledge and skills needed to effectively promote the health and well-being of mothers, children, and families in local, domestic, and global settings. The certificate will utilize the five MCH competencies for curriculum development and evaluation (ATMCH, 2001): scientific basis, methodological/analytical skills, management and communication skills, policy and advocacy skills, and values and ethics in MCH public health practice.

Students accepted into the MCH Certificate program are designated as MCH Catalyst trainees as the MCH Certificate is a component of the HRSA/MCH MCH Public Health Catalyst Training Program (<https://mchb.hrsa.gov/training/projects.asp?program=31>) at the Drexel Dornsife School of Public Health.

Students develop skills in critical thinking, application, and analysis of MCH issues through achieving nationally recognized MCH Leadership Competencies (<https://mchb.hrsa.gov/training/leadership-00.asp>). As MCH Catalyst trainees, students in this program will also be afforded additional MCH opportunities both within Drexel and nationally through HRSA/MCHB. Graduates of this training program are poised for entry and upward advancement into the MCH workforce or related MCH graduate programs.

### Admission Requirements

Applicants to the online Certificate in Maternal and Child Health program must meet the following requirements:

- Complete application form
- Working knowledge of and access to a PC, high-speed connection to the Internet, and MS Office applications
- Bachelor's degree from a regionally accredited institution

- Ability to download free versions of Adobe Acrobat Reader, Skype, and/or VSee video conferencing applications
- Demonstrated interest or work experience in MCH

## Program Requirements

### Required courses

CHP 517	Overview of Maternal and Child Health	3.0
CHP 518	Global Issues in Maternal and Child Health	3.0
EPI 570	Introduction to Epidemiology	3.0
Electives (students should choose 3)		9.0
BST 571	Introduction to Biostatistics	
CHP 607	Public Health Ethics	
CHP 660	Global Health Ethics	
CHP 661	Monitoring and Evaluation in Global Health Programs and Advocacy	
CHP 673	Process Monitoring and Outcomes Evaluation for Community Health Programs	
CHP 681	Research with Rare, Stigmatized and Hidden Populations	
CHP 682	LGBT Health Disparities	
CHP 683	Intersectional Perspectives	
EPI 556	Perinatal Epidemiology	
EPI 572	Design and Analysis of Epidemiological Studies	
HMP 555	Violence, Trauma and Adversity in Public Health	
HMP 652	Change Management in Public Health	
IPS 510	Reproductive Women's Health Across the Life Cycle	
<b>Total Credits</b>		<b>18.0</b>

\* CHP 607 is a pre or co-requisite for CHP 660, and CHP 673 is a pre or co-requisite for CHP 661.

## Sample Plan of Study

### First Year

Fall	Credits Winter	Credits Spring	Credits
CHP 517	3.0 CHP 518	3.0 Electives	6.0
EPI 570	3.0 Elective	3.0	
<b>6</b>		<b>6</b>	<b>6</b>
<b>Total Credits 18</b>			

\* Please note that electives can be taken during any term. This is a sample plan of study that shows how students may choose to complete this certificate.

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Drexel University Online website including how to apply (<https://www.online.drexel.edu/online-degrees/public-health-degrees/cert-maternal-child-health/#admissionscriteria>).

## Certificate in Public Health

*Certificate Level: Graduate*

*Admission Requirements: Bachelor's degree*

*Certificate Type: Post-Baccalaureate*

*Number of Credits to Completion: 19.0*

*Instructional Delivery: Online*

*Calendar Type: Quarter*

*Expected Time to Completion: 1 year*

*Financial Aid Eligibility: Not aid eligible*

*Classification of Instructional Program (CIP) Code: 51.2201*

*Standard Occupational Classification (SOC) Code: 19-1042*

## About the Program

The Public Health Certificate will provide students with a foundational knowledge of public health. This program is designed for working professionals coming from a variety of backgrounds including physicians, nurses, public health administrators, health educators, clinical research professionals, policy experts, and more. The certificate will provide students with key competencies outlined by the Council on Education for Public Health (CEPH) in eight domains: (1) evidence-based approaches to public health, (2) public health and health care systems, (3) planning and management to promote health, (4) policy in public health, (5) leadership, (6) communication, (7) interprofessional practice, and (8) systems thinking.

Students who wish to continue to their education will be well-positioned to matriculate into the MPH program.

## Admission Requirements

Applicants to the online Public Health Certificate program must meet the following requirements:

- Complete application form
- Working knowledge of and access to PC, high-speed connection to Internet, and MS Office applications
- Bachelor's degree required
- Ability to download free versions of Adobe Acrobat Reader, Skype, and/or VSee teleconferencing applications
- Demonstrated interest or work experience in public health

## Program Requirements

### Required Courses

EPI 570	Introduction to Epidemiology	3.0
BST 571	Introduction to Biostatistics	3.0
PBHL 510	Public Health Foundations and Systems I	4.0
PBHL 511	Public Health Foundations and Systems II	4.0
HMP 505	Qualitative Data and Mixed Methods Analysis	2.0
<b>Elective</b>		<b>3.0</b>
BST 555	Introduction to Statistical Computing	
CHP 517	Overview of Maternal and Child Health	
CHP 518	Global Issues in Maternal and Child Health	
CHP 681	Research with Rare, Stigmatized and Hidden Populations	
CHP 682	LGBT Health Disparities	
CHP 683	Intersectional Perspectives	
EPI 556	Perinatal Epidemiology	
<b>Total Credits</b>		<b>19.0</b>

## Sample Plan of Study

### 3 Months (1 Quarter) Full-Time

#### First Year

Summer	Credits
BST 571	3.0
EPI 570	3.0
PBHL 510	4.0
PBHL 511	4.0

HMP 505	2.0
Elective	3.0
<hr/>	
	<b>19</b>

Total Credits 19

## 9 Months (3 Quarters) Part-Time

### First Year (Part-Time)

Fall	Credits Winter	Credits Spring	Credits
EPI 570	3.0 BST 571	3.0 HMP 505	2.0
PBHL 510	4.0 PBHL 511	4.0 Elective	3.0
<hr/>		<hr/>	<hr/>
	<b>7</b>	<b>7</b>	<b>5</b>

Total Credits 19

## Additional Information

For more information about this program, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Drexel University Online website including how to apply (<https://www.online.drexel.edu/online-degrees/public-health-degrees/cert-public-health/#admissionscriteria>).

## Certificate in Urban Health

*Certificate Level: Graduate*

*Admission Requirements: Bachelor's degree*

*Certificate Type: Post-Baccalaureate*

*Number of Credits to Completion: 18.0*

*Instructional Delivery: Online*

*Calendar Type: Quarter*

*Expected Time to Completion: 1 year*

*Financial Aid Eligibility: Aid eligible as of Fall 2020 term*

*Classification of Instructional Program (CIP) Code: 51.2299*

*Standard Occupational Classification (SOC) Code: 21-1091*

## About the Program

The Certificate in Urban Health will introduce students to urban health concepts and practice techniques. Students will gain experience on how to be culturally competent public health professionals with an emphasis on built environment, healthy housing, and ecological concerns. Students will learn about the fundamentals of urban health and how to apply them to real-world problems.

The certificate is offered entirely online to provide qualified students and working professionals with an opportunity to acquire these credentials regardless of restrictions in time and physical location. Those who successfully complete the certificate program and wish to broaden their scope of public health education could pursue an MPH degree program.

## Admission Requirements

Applicants to the Certificate in Urban Health program must meet the following requirements:

- Bachelor's degree from a regionally accredited institution
- Working knowledge of and access to a PC, high-speed connection to Internet, and MS Office applications

- Ability to download free versions of Adobe Acrobat Reader, Skype, and/or VSee teleconferencing applications
- Demonstrated interest or work experience in public health

## Program Requirements

### Program Requirements

CHP 673	Process Monitoring and Outcomes Evaluation for Community Health Programs	3.0
EOH 550	Introduction to Urban Health	3.0
EOH 642	Healthy Housing & Built Environment	3.0
EPI 633	Urban Inequality and Health: Theory, Evidence, and Action	3.0
Electives		6.0
<hr/>		<hr/>
<b>Total Credits</b>		<b>18.0</b>

## Sample Plan of Study

### First Year

Fall	Credits Winter	Credits Spring	Credits
EOH 550	3.0 CHP 673	3.0 EOH 642	3.0
Elective	3.0 EPI 633	3.0 Elective	3.0
<hr/>		<hr/>	<hr/>
	<b>6</b>	<b>6</b>	<b>6</b>

Total Credits 18

## Additional Information

For more information about this certificate, contact:

DSPH Academic Advising Team  
Office of Education  
dsphadvising@drexel.edu

Additional information can be found on the Drexel University Online (<https://www.online.drexel.edu/online-degrees/public-health-degrees/cert-urban-health/>) website including how to apply (<https://www.online.drexel.edu/online-degrees/public-health-degrees/cert-urban-health/#admissionscriteria>).

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