Twin Cities Campus

Environmental Health M.P.H.

School of Public Health - Adm

School of Public Health

Link to a list of faculty for this program.

Contact Information:
School of Public Health, MMC 819, A395 Mayo Memorial Building, 420 Delaware Street, Minneapolis, MN 55455 (612-626-3500 OR 1-800-774-8636)
Email: sph-ask@umn.edu
Website: http://www.sph.umn.edu

- Program Type: Master's
- Requirements for this program are current for Fall 2020
- Length of program in credits: 42 to 52
- This program does not require summer semesters for timely completion.
- Degree: Master of Public Health

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

Environmental health is the study of how exposures to external hazards, including chemical, physical, and biological agents, affect human health. Environmental health researchers and professionals seek to understand how to evaluate exposures that create risk to human health, how those exposures elicit biological responses that lead to disease and injury, and how policy is developed and used to prevent adverse health effects. This program offers academic programs at the master's and doctoral levels, conducts research in diverse areas of environmental health, offers continuing education, and conducts outreach. The academic programs prepare students to be leaders in environmental health in academia, industry, consulting groups, and government agencies. The program's training and research emphasizes the importance of translating basic scientific knowledge into solutions for current societal problems and concerns.

The School of Public Health (SPH) and College of Biological Sciences (CBS) offer an early-admission opportunity for eligible University CBS students interested in completing the MPH Environmental Health degree. Interested CBS students should contact their college office or the SPH for more information.

Accreditation

This program is accredited by Council on Education for Public Health

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)
- completely online (all program coursework can be completed online)

Prerequisites for Admission

The preferred undergraduate GPA for admittance to the program is 3.00.

Minimum qualifications include a baccalaureate degree with coursework in the basic sciences. Occupational health nursing/medicine applicants must have a relevant degree from an accredited school.

Other requirements to be completed before admission:
Applicants to the Industrial Hygiene sub-plan must meet the following additional criteria: a good undergraduate academic record in a relevant discipline (preferably science or engineering), with a minimum level of coursework in biology, chemistry (including organic), physics, and mathematics (including calculus). Students with undergraduate non-science fields, with appropriate additional coursework or work experience, may also apply, but must demonstrate strengths in physics, chemistry (including organic), biology, and mathematics (including calculus) and complementary non-science coursework (e.g. social sciences, languages). Strong letters of recommendation and a written statement that reflects a clear motivation toward occupational and environmental health. Success in prior industrial hygiene-related work is a strong factor for admission to this track. Applicants interested in the Environmental Infectious Diseases emphasis: microbiology background is preferred.

Applicants must submit their test score(s) from the following:

- GRE
  - General Test - Verbal Reasoning: 150

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- General Test - Quantitative Reasoning: 150
- General Test - Analytical Writing: 3.5

- GMAT
- MCAT
  - Verbal Reasoning score: 10
  - Physical Science score: 10
  - Biological Reasoning score: 10
  - Writing Sample score: 10
- LSAT
  - Law School Admission Test (LSAT) score: 140
- DAT
  - Score: 15

International applicants must submit score(s) from one of the following tests:

- TOEFL
  - Internet Based - Total Score: 100
  - Paper Based - Total Score: 600
- IELTS
  - Total Score: 7
- MELAB
  - Final score: 80

Key to test abbreviations(GRE, GMAT, MCAT, LSAT, TOEFL, IELTS, MELAB).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements

Plan C: Plan C requires 42 to 52 major credits and up to null credits outside the major.The is no final exam.A capstone project is required.
Capstone Project: Students complete PUBH 7194 (Integrative Learning Experience) in consultation with the advisor.

This program may be completed with a minor.

Use of 4xxx courses toward program requirements is permitted under certain conditions with adviser approval.

A minimum GPA of 3.0 is required for students to remain in good standing.

Public Health Core Requirements (16 credits)
Take the following courses for a total of 9 credits. A minimum grade of B- is required for each course.
PUBH 6020 - Fundamentals of Social and Behavioral Science (2.0 cr)
PUBH 6102 - Issues in Environmental Health (2.0 cr)
PUBH 6250 - Foundations of Public Health (2.0 cr)
PUBH 6741 - Ethics in Public Health: Professional Practice and Policy (1.0 cr)
PUBH 6751 - Principles of Management in Health Services Organizations (2.0 cr)
Epidemiology Requirement (3 cr)
Take one of the following courses. Students taking electives from the Environmental and Occupational Epidemiology emphasis or Injury and Violence Epidemiology and Prevention emphasis must take PubH 6341. A minimum grade of B- is required.
PUBH 6320 - Fundamentals of Epidemiology (3.0 cr)
or PUBH 6341 - Epidemiologic Methods I (3.0 cr)
Biostatistics Requirement (4 cr)
Select PubH 6450 or PubH 6414 in consultation with the advisor. Students taking electives from the Environmental and Occupational Epidemiology emphasis, Injury and Violence Epidemiology and Prevention emphasis, or pursuing the Industrial Hygiene track must take PubH 6450. Students who take PubH 6414 must take at least one additional credit from the biostatistical program course list to complete the 4-credit requirement. A minimum grade of B- is required.
PUBH 6450 - Biostatistics I (4.0 cr)
or PUBH 6414 - Biostatistical Literacy (3.0 cr)
Biostatistical Programming Options
Students who take PubH 6414 must select one of the following courses in consultation with the advisor to complete the biostatistics programming requirement. A minimum grade of B- is required.
PUBH 6107 - Excel Skills for Data Management in Public Health Settings (1.0 cr)
or PUBH 6325 - Data Processing with PC-SAS (1.0 cr)
or PUBH 6420 - Introduction to SAS Programming (1.0 cr)

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or PUBH 6470 *{Inactive}*(3.0 cr)
or PUBH 6617 *{Inactive}*(3.0 cr)
or PUBH 6813 - Managing Electronic Health Information (2.0 cr)
or PUBH 7461 - Exploring and Visualizing Data in R (2.0 cr)
or PUBH 6845 - Using Demographic Data for Policy Analysis (3.0 cr)
or PUBH 6755 - Planning and Budgeting for Public Health (2.0 cr)

Environmental Health Requirement (4 cr)
Take the following course. A minimum grade of B- is required.
PUBH 6109 *{Inactive}*(2.0 - 4.0 cr)

Applied Practice Experience (1 to 3 credits)
Take the following course in consultation with the advisor. Students pursuing the Industrial Hygiene track must take PUBH 7196 for 3 credits. All other students take the course for 1 credit.
PUBH 7196 - Applied Practice Experience: Environmental Health (1.0 - 5.0 cr)

Integrative Learning Experience (1 to 3 credits)
Take the following course in consultation with the advisor. Students pursuing the Industrial Hygiene track must take PUBH 7194 for 3 credits. All other students take the course for 1 credit.
PUBH 7194 - Integrative Learning Experience: Environmental Health (1.0 - 5.0 cr)

Emphasis Areas

Generalist (20 credits)
Students pursue and develop their particular interests to complete this emphasis.
Choose electives in consultation with the advisor to complete the 42-credit minimum.
PUBH 6385 - Epidemiology and Control of Infectious Diseases (2.0 cr)
PUBH 6601 - Born a Girl: Global Women's Health (1.0 cr)
PUBH 6852 - Program Evaluation in Health and Mental Health Settings (2.0 cr)
PUBH 6034 - Evaluation I: Concepts (3.0 cr)
PUBH 6045 - Skills for Policy Development (1.0 cr)
PUBH 6055 - Social Inequalities in Health (2.0 cr)
PUBH 6066 - Building Communities, Increasing Health: Preparing for Community Health Work (2.0 cr)
PUBH 6527 - Healthcare Leadership and Effecting Change (2.0 cr)
PA 5451 *{Inactive}*(3.0 cr)
PUBH 6906 - Global Nutrition (2.0 cr)
PUBH 6730 - International Comparative Health Systems (2.0 cr)
PUBH 6605 - Sexual, Reproductive, and Perinatal Public Health (2.0 cr)
PUBH 6106 *{Inactive}*(2.0 cr)
PUBH 6112 - Environmental Health Risk Assessment: Application to Human Health Risks from Exposure to Chemicals (2.0 cr)
PUBH 6120 - Injury Prevention in the Workplace, Community, and Home (2.0 cr)
PUBH 6123 - Violence Prevention and Control: Theory, Research, and Application (2.0 cr)
PUBH 6130 - Occupational Medicine: Principles and Practice (2.0 cr)
PUBH 6140 - Occupational and Environmental Epidemiology (2.0 cr)
PUBH 6150 - Interdisciplinary Evaluation of Occupational Health and Safety Field Problems (3.0 cr)
PUBH 6154 - Climate Change and Global Health Modeling (3.0 cr)
PUBH 6160 - Principles of Toxicology II (3.0 cr)
PUBH 6162 - Biomarkers (2.0 cr)
PUBH 6170 - Introduction to Occupational Health and Safety (3.0 cr)
PUBH 6181 - Surveillance of Foodborne Diseases and Food Safety Hazards (2.0 cr)
PUBH 6173 - Exposure to Physical Agents (2.0 cr)
PUBH 6011 - Public Health Approaches to HIV/AIDS (3.0 cr)
PUBH 6232 - Emergency Preparedness: A Public Health Perspective (2.0 cr)
PUBH 6386 - Cardiovascular Disease Epidemiology and Prevention (2.0 cr)
PUBH 6035 - Evaluation II: Planning & Evaluation (3.0 cr)
PUBH 6190 - Environmental Chemistry (3.0 cr)
PUBH 6049 - Legislative Advocacy Skills for Public Health (3.0 cr)
PUBH 6210 *{Inactive}*(1.0 cr)
PUBH 6060 - Motivational Interviewing: Strategies to Effect Behavior Change (1.0 cr)
PUBH 6074 - Mass Communication and Public Health (3.0 cr)
PUBH 6078 - Public Health Policy as a Prevention Strategy (2.0 cr)
PUBH 6085 *{Inactive}*(2.0 cr)
PUBH 6094 - Interventions to Address Weight-Related Health and Eating Disorders (2.0 cr)
PUBH 6342 - Epidemiologic Methods II (3.0 cr)
PUBH 6343 - Epidemiologic Methods III (4.0 cr)
PUBH 6344 - Completing the Integrative Learning Experience: Secondary Data Analysis (2.0 cr)

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PUBH 6389 - Nutritional Epidemiology (2.0 cr)
PUBH 6350 - Epidemiologic Methods III: Lab (1.0 cr)
PUBH 6355 - Pathophysiology of Human Disease (4.0 cr)
PUBH 6381 - Genetics in Public Health in the Age of Precision Medicine (2.0 cr)
PUBH 6420 - Introduction to SAS Programming (1.0 cr)
PUBH 6431 - Topics in Hierarchical Bayesian Analysis (1.0 cr)
PUBH 6470 *{Inactive}*(3.0 cr)
PUBH 6541 - Statistics for Health Management Decision Making (3.0 cr)
PUBH 6542 - Management of Health Care Organizations (3.0 cr)
PUBH 6544 - Principles of Problem Solving in Health Services Organizations (3.0 cr)
PUBH 6547 - Health Care Human Resources Management (2.0 cr)
PUBH 6555 - Health Economics (2.0 cr)
PUBH 6556 - Health and Health Systems (3.0 cr)
PUBH 6560 - Operations Research and Quality in Health Care (3.0 cr)
PUBH 6562 - Information Technology in Health Care (2.0 cr)
PUBH 6563 - Integrated Delivery Systems (2.0 cr)
PUBH 6564 - Private Purchasers of Health Care: Roles of Employers and Health Plans in U.S. Health Care System (2.0 cr)
PUBH 6565 - Innovation of Healthcare Services (2.0 cr)
PUBH 6571 - Quality, Patient Safety, and Performance Improvement (2.0 cr)
PUBH 6589 - Medical Technology Evaluation and Market Research (2.0 cr)
PUBH 6596 - Legal Considerations in Health Services Organizations (2.0 cr)
PUBH 6617 *{Inactive}*(3.0 cr)
PUBH 6627 - Sexuality Education: Criteria, Curricula, and Controversy (1.0 cr)
PUBH 6630 - Foundations of Maternal and Child Health Leadership (3.0 cr)
PUBH 6634 *{Inactive}*(2.0 cr)
PUBH 6655 *{Inactive}*(2.0 cr)
PUBH 6702 - Integrative Leadership Seminar (3.0 cr)
PUBH 6711 - Public Health Law (2.0 cr)
PUBH 6717 - Decision Analysis for Health Care (2.0 cr)
PUBH 6724 - The Health Care System and Public Health (3.0 cr)
PUBH 6727 - Health Leadership and Effecting Change (2.0 cr)
PUBH 6729 *{Inactive}*(1.0 cr)
PUBH 6742 - Ethics in Public Health: Research and Policy (1.0 cr)
PUBH 6755 - Planning and Budgeting for Public Health (2.0 cr)
PUBH 6765 - Continuous Quality Improvement: Methods and Techniques (3.0 cr)
PUBH 6780 - Topics in Public Health Administration and Policy (1.0 - 3.0 cr)
PUBH 6803 - Conducting a Systematic Literature Review (3.0 cr)
PUBH 6805 - Introduction to Project Management for Health Professionals (2.0 cr)
PUBH 6806 - Principles of Public Health Research (2.0 cr)
PUBH 6832 - Economics of the Health Care System (3.0 cr)
PUBH 6809 - Advanced Methods in Health Decision Science (3.0 cr)
PUBH 6810 - Survey Research Methods (3.0 cr)
PUBH 6812 *{Inactive}*(2.0 cr)
PUBH 6813 - Managing Electronic Health Information (2.0 cr)
PUBH 6814 *{Inactive}*(2.0 cr)
PUBH 6815 - Community-based Participatory Research (2.0 cr)
PUBH 7214 - Principles of Risk Communication (1.0 cr)
PUBH 6835 *{Inactive}*(2.0 cr)
PUBH 6845 - Using Demographic Data for Policy Analysis (3.0 cr)
PUBH 7222 - Best Practices in Emergency Response (1.0 cr)
PUBH 6855 - Medical Sociology (3.0 cr)
PUBH 6862 - Cost-Effectiveness Analysis in Health Care (3.0 cr)
PUBH 6863 - Understanding Health Care Quality (2.0 cr)
PUBH 6901 - Foundations of Public Health Nutrition Leadership (2.0 cr)
PUBH 6920 - Foundations of Interprofessional Professional Communication and Collaboration (1.0 cr)
PUBH 7210 - Topics: Global Food Systems (0.5 cr)
PUBH 7430 - Statistical Methods for Correlated Data (3.0 cr)
PUBH 7535 *{Inactive}*(3.0 cr)
PUBH 7236 *{Inactive}*(2.0 cr)
PUBH 7250 - Designing and Conducting Focus Group Interviews (1.0 cr)
PUBH 7252 *{Inactive}*(1.0 cr)
PUBH 7253 - Introduction to GIS (1.0 cr)
PUBH 7257 - Qualitative Data Analysis (1.0 cr)
PUBH 7475 - Statistical Learning and Data Mining (3.0 cr)
PUBH 7534 - Marketing for Health Care Professionals (1.0 cr)
PUBH 7541 - Statistics for Health Management Decision Making (3.0 cr)

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Information current as of March 29, 2024

PUBH 7556 - Health and Health Systems (2.0 cr)
PUBH 7562 - Information Technology in Health Care (2.0 cr)
PUBH 7564 - Private Purchasers of Health Care (2.0 cr)
PUBH 7565 - Innovation of Healthcare Services (2.0 cr)
PUBH 7568 - Interdisciplinary Teamwork in Health Care (2.0 cr)
PUBH 7569 - Health Care Policy (1.0 cr)
PUBH 8140 *{Inactive}*(2.0 cr)
PUBH 8141 - Doctoral Seminar in Observational Inference (2.0 cr)

-OR-

Environmental and Occupational Epidemiology (20 credits)

Required Coursework (9 credits)

Take the following courses. Students taking electives from the Environmental and Occupational Epidemiology emphasis must have completed PUBH 6341 and PUBH 6450.
PUBH 6140 - Occupational and Environmental Epidemiology (2.0 cr)
PUBH 6342 - Epidemiologic Methods II (3.0 cr)
PUBH 6451 - Biostatistics II (4.0 cr)

Electives (11 credits)

Choose electives in consultation with the advisor to meet the 42-credit minimum.
PUBH 6385 - Epidemiology and Control of Infectious Diseases (2.0 cr)
PUBH 6601 - Born a Girl: Global Women's Health (1.0 cr)
PUBH 6852 - Program Evaluation in Health and Mental Health Settings (2.0 cr)
PUBH 6034 - Evaluation I: Concepts (3.0 cr)
PUBH 6045 - Skills for Policy Development (1.0 cr)
PUBH 6055 - Social Inequalities in Health (2.0 cr)
PUBH 6066 - Building Communities, Increasing Health: Preparing for Community Health Work (2.0 cr)
PUBH 6527 - Healthcare Leadership and Effecting Change (2.0 cr)
PUBH 6906 - Global Nutrition (2.0 cr)
PUBH 6730 - International Comparative Health Systems (2.0 cr)
PUBH 6605 - Sexual, Reproductive, and Perinatal Public Health (2.0 cr)
PUBH 6106 *{Inactive}*(2.0 cr)
PUBH 6112 - Environmental Health Risk Assessment: Application to Human Health Risks from Exposure to Chemicals (2.0 cr)
PUBH 6120 - Injury Prevention in the Workplace, Community, and Home (2.0 cr)
PUBH 6123 - Violence Prevention and Control: Theory, Research, and Application (2.0 cr)
PUBH 6130 - Occupational Medicine: Principles and Practice (2.0 cr)
PUBH 6190 - Environmental Chemistry (3.0 cr)
PUBH 6150 - Interdisciplinary Evaluation of Occupational Health and Safety Field Problems (3.0 cr)
PUBH 6154 - Climate Change and Global Health Modeling (3.0 cr)
PUBH 6160 - Principles of Toxicology II (3.0 cr)
PUBH 6162 - Biomarkers (2.0 cr)
PUBH 6170 - Introduction to Occupational Health and Safety (3.0 cr)
PUBH 6181 - Surveillance of Foodborne Diseases and Food Safety Hazards (2.0 cr)
PUBH 6173 - Exposure to Physical Agents (2.0 cr)
PUBH 6011 - Public Health Approaches to HIV/AIDS (3.0 cr)
PUBH 6232 - Emergency Preparedness: A Public Health Perspective (2.0 cr)
PUBH 6386 - Cardiovascular Disease Epidemiology and Prevention (2.0 cr)
PUBH 6035 - Evaluation II: Planning & Evaluation (3.0 cr)
PUBH 6049 - Legislative Advocacy Skills for Public Health (3.0 cr)
PUBH 6210 *{Inactive}*(1.0 cr)
PUBH 6060 - Motivational Interviewing: Strategies to Effect Behavior Change (1.0 cr)
PUBH 6074 - Mass Communication and Public Health (3.0 cr)
PUBH 6078 - Public Health Policy as a Prevention Strategy (2.0 cr)
PUBH 6085 *{Inactive}*(2.0 cr)
PUBH 6094 - Interventions to Address Weight-Related Health and Eating Disorders (2.0 cr)
PUBH 6343 - Epidemiologic Methods III (4.0 cr)
PUBH 6344 - Completing the Integrative Learning Experience: Secondary Data Analysis (2.0 cr)
PUBH 6389 - Nutritional Epidemiology (2.0 cr)
PUBH 6350 - Epidemiologic Methods III: Lab (1.0 cr)
PUBH 6355 - Pathophysiology of Human Disease (4.0 cr)
PUBH 6381 - Genetics in Public Health in the Age of Precision Medicine (2.0 cr)
PUBH 6420 - Introduction to SAS Programming (1.0 cr)
PUBH 6431 - Topics in Hierarchical Bayesian Analysis (1.0 cr)
PUBH 6470 *{Inactive}*(3.0 cr)
PUBH 6541 - Statistics for Health Management Decision Making (3.0 cr)
PUBH 6542 - Management of Health Care Organizations (3.0 cr)
PUBH 6544 - Principles of Problem Solving in Health Services Organizations (3.0 cr)

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PUBH 6547 - Health Care Human Resources Management (2.0 cr)
PUBH 6555 - Health Economics (2.0 cr)
PUBH 6556 - Health and Health Systems (3.0 cr)
PUBH 6560 - Operations Research and Quality in Health Care (3.0 cr)
PUBH 6562 - Information Technology in Health Care (2.0 cr)
PUBH 6563 - Integrated Delivery Systems (2.0 cr)
PUBH 6564 - Private Purchasers of Health Care: Roles of Employers and Health Plans in U.S. Health Care System (2.0 cr)
PUBH 6565 - Innovation of Healthcare Services (2.0 cr)
PUBH 6571 - Quality, Patient Safety, and Performance Improvement (2.0 cr)
PUBH 6589 - Medical Technology Evaluation and Market Research (2.0 cr)
PUBH 6596 - Legal Considerations in Health Services Organizations (2.0 cr)
PUBH 6617 *{Inactive}*(3.0 cr)
PUBH 6627 - Sexuality Education: Criteria, Curricula, and Controversy (1.0 cr)
PUBH 6630 - Foundations of Maternal and Child Health Leadership (3.0 cr)
PUBH 6634 *{Inactive}*(2.0 cr)
PUBH 6655 *{Inactive}*(2.0 cr)
PUBH 6702 - Integrative Leadership Seminar (3.0 cr)
PUBH 6711 - Public Health Law (2.0 cr)
PUBH 6717 - Decision Analysis for Health Care (2.0 cr)
PUBH 6724 - The Health Care System and Public Health (3.0 cr)
PUBH 6727 - Health Leadership and Effecting Change (2.0 cr)
PUBH 6729 *{Inactive}*(1.0 cr)
PUBH 6742 - Ethics in Public Health: Research and Policy (1.0 cr)
PUBH 6755 - Planning and Budgeting for Public Health (2.0 cr)
PUBH 6765 - Continuous Quality Improvement: Methods and Techniques (3.0 cr)
PUBH 6803 - Conducting a Systematic Literature Review (3.0 cr)
PUBH 6805 - Introduction to Project Management for Health Professionals (2.0 cr)
PUBH 6806 - Principles of Public Health Research (2.0 cr)
PUBH 6832 - Economics of the Health Care System (3.0 cr)
PUBH 6809 - Advanced Methods in Health Decision Science (3.0 cr)
PUBH 6810 - Survey Research Methods (3.0 cr)
PUBH 6812 *{Inactive}*(2.0 cr)
PUBH 6813 - Managing Electronic Health Information (2.0 cr)
PUBH 6814 *{Inactive}*(2.0 cr)
PUBH 6815 - Community-based Participatory Research (2.0 cr)
PUBH 7214 - Principles of Risk Communication (1.0 cr)
PUBH 6835 *{Inactive}*(2.0 cr)
PUBH 6845 - Using Demographic Data for Policy Analysis (3.0 cr)
PUBH 7222 - Best Practices in Emergency Response (1.0 cr)
PUBH 6855 - Medical Sociology (3.0 cr)
PUBH 6862 - Cost-Effectiveness Analysis in Health Care (3.0 cr)
PUBH 6863 - Understanding Health Care Quality (2.0 cr)
PUBH 6901 - Foundations of Public Health Nutrition Leadership (2.0 cr)
PUBH 6920 - Foundations of Interprofessional Professional Communication and Collaboration (1.0 cr)
PUBH 7210 - Topics: Global Food Systems (0.5 cr)
PUBH 7430 - Statistical Methods for Correlated Data (3.0 cr)
PUBH 7535 *{Inactive}*(3.0 cr)
PUBH 7236 *{Inactive}*(2.0 cr)
PUBH 7250 - Designing and Conducting Focus Group Interviews (1.0 cr)
PUBH 7252 *{Inactive}*(1.0 cr)
PUBH 7253 - Introduction to GIS (1.0 cr)
PUBH 7257 - Qualitative Data Analysis (1.0 cr)
PUBH 7475 - Statistical Learning and Data Mining (3.0 cr)
PUBH 7534 - Marketing for Health Care Professionals (1.0 cr)
PUBH 7541 - Statistics for Health Management Decision Making (3.0 cr)
PUBH 7556 - Health and Health Systems (2.0 cr)
PUBH 7562 - Information Technology in Health Care (2.0 cr)
PUBH 7564 - Private Purchasers of Health Care (2.0 cr)
PUBH 7565 - Innovation of Healthcare Services (2.0 cr)
PUBH 7568 - Interdisciplinary Teamwork in Health Care (2.0 cr)
PUBH 7569 - Health Care Policy (1.0 cr)
PUBH 8140 *{Inactive}*(2.0 cr)
PUBH 8141 - Doctoral Seminar in Observational Inference (2.0 cr)
PA 5451 *{Inactive}*(3.0 cr)

-OR-

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Environmental Infectious Diseases (20 credits)

Required Coursework (10 credits)

Take the following courses:

PUBH 6181 - Surveillance of Foodborne Diseases and Food Safety Hazards (2.0 cr)
PUBH 6182 - Emerging Infectious Disease: Current Issues, Policies, and Controversies (3.0 cr)
PUBH 6385 - Epidemiology and Control of Infectious Diseases (2.0 cr)
VMED 5180 - Ecology of Infectious Disease (3.0 cr)

Electives (10 credits)

Choose electives in consultation with the advisor to meet the 42-credit minimum.

PUBH 6547 - Health Care Human Resources Management (2.0 cr)
PUBH 6601 - Born a Girl: Global Women's Health (1.0 cr)
PUBH 6852 - Program Evaluation in Health and Mental Health Settings (2.0 cr)
PUBH 6034 - Evaluation I: Concepts (3.0 cr)
PUBH 6045 - Skills for Policy Development (1.0 cr)
PUBH 6055 - Social Inequalities in Health (2.0 cr)
PUBH 6066 - Building Communities, Increasing Health: Preparing for Community Health Work (2.0 cr)
PUBH 6527 - Healthcare Leadership and Effecting Change (2.0 cr)
PUBH 6906 - Global Nutrition (2.0 cr)
PA 5451 *{Inactive}*(3.0 cr)
PUBH 6730 - International Comparative Health Systems (2.0 cr)
PUBH 6605 - Sexual, Reproductive, and Perinatal Public Health (2.0 cr)
PUBH 6106 *{Inactive}*(2.0 cr)
PUBH 6112 - Environmental Health Risk Assessment: Application to Human Health Risks from Exposure to Chemicals (2.0 cr)
PUBH 6120 - Injury Prevention in the Workplace, Community, and Home (2.0 cr)
PUBH 6123 - Violence Prevention and Control: Theory, Research, and Application (2.0 cr)
PUBH 6130 - Occupational Medicine: Principles and Practice (2.0 cr)
PUBH 6140 - Occupational and Environmental Epidemiology (2.0 cr)
PUBH 6150 - Interdisciplinary Evaluation of Occupational Health and Safety Field Problems (3.0 cr)
PUBH 6154 - Climate Change and Global Health Modeling (3.0 cr)
PUBH 6160 - Principles of Toxicology II (3.0 cr)
PUBH 6162 - Biomarkers (2.0 cr)
PUBH 6170 - Introduction to Occupational Health and Safety (3.0 cr)
PUBH 6810 - Survey Research Methods (3.0 cr)
PUBH 6173 - Exposure to Physical Agents (2.0 cr)
PUBH 6011 - Public Health Approaches to HIV/AIDS (3.0 cr)
PUBH 6232 - Emergency Preparedness: A Public Health Perspective (2.0 cr)
PUBH 6386 - Cardiovascular Disease Epidemiology and Prevention (2.0 cr)
PUBH 6035 - Evaluation II: Planning & Evaluation (3.0 cr)
PUBH 6190 - Environmental Chemistry (3.0 cr)
PUBH 6049 - Legislative Advocacy Skills for Public Health (3.0 cr)
PUBH 6210 *{Inactive}*(1.0 cr)
PUBH 6060 - Motivational Interviewing: Strategies to Effect Behavior Change (1.0 cr)
PUBH 6074 - Mass Communication and Public Health (3.0 cr)
PUBH 6078 - Public Health Policy as a Prevention Strategy (2.0 cr)
PUBH 6085 *{Inactive}*(2.0 cr)
PUBH 6094 - Interventions to Address Weight-Related Health and Eating Disorders (2.0 cr)
PUBH 6342 - Epidemiologic Methods II (3.0 cr)
PUBH 6343 - Epidemiologic Methods III (4.0 cr)
PUBH 6344 - Completing the Integrative Learning Experience: Secondary Data Analysis (2.0 cr)
PUBH 6389 - Nutritional Epidemiology (2.0 cr)
PUBH 6350 - Epidemiologic Methods III: Lab (1.0 cr)
PUBH 6355 - Pathophysiology of Human Disease (4.0 cr)
PUBH 6381 - Genetics in Public Health in the Age of Precision Medicine (2.0 cr)
PUBH 6420 - Introduction to SAS Programming (1.0 cr)
PUBH 6431 - Topics in Hierarchical Bayesian Analysis (1.0 cr)
PUBH 6470 *{Inactive}*(3.0 cr)
PUBH 6541 - Statistics for Health Management Decision Making (3.0 cr)
PUBH 6542 - Management of Health Care Organizations (3.0 cr)
PUBH 6544 - Principles of Problem Solving in Health Services Organizations (3.0 cr)
PUBH 6555 - Health Economics (2.0 cr)
PUBH 6556 - Health and Health Systems (3.0 cr)
PUBH 6560 - Operations Research and Quality in Health Care (3.0 cr)
PUBH 6562 - Information Technology in Health Care (2.0 cr)
PUBH 6563 - Integrated Delivery Systems (2.0 cr)
PUBH 6564 - Private Purchasers of Health Care: Roles of Employers and Health Plans in U.S. Health Care System (2.0 cr)
PUBH 6565 - Innovation of Healthcare Services (2.0 cr)

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PUBH 6571 - Quality, Patient Safety, and Performance Improvement (2.0 cr)
PUBH 6589 - Medical Technology Evaluation and Market Research (2.0 cr)
PUBH 6596 - Legal Considerations in Health Services Organizations (2.0 cr)
PUBH 6617 *{Inactive}*(3.0 cr)
PUBH 6627 - Sexuality Education: Criteria, Curricula, and Controversy (1.0 cr)
PUBH 6630 - Foundations of Maternal and Child Health Leadership (3.0 cr)
PUBH 6634 *{Inactive}*(2.0 cr)
PUBH 6655 *{Inactive}*(2.0 cr)
PUBH 6702 - Integrative Leadership Seminar (3.0 cr)
PUBH 6711 - Public Health Law (2.0 cr)
PUBH 6717 - Decision Analysis for Health Care (2.0 cr)
PUBH 6724 - The Health Care System and Public Health (3.0 cr)
PUBH 6727 - Health Leadership and Effecting Change (2.0 cr)
PUBH 6729 *{Inactive}*(1.0 cr)
PUBH 6742 - Ethics in Public Health: Research and Policy (1.0 cr)
PUBH 6755 - Planning and Budgeting for Public Health (2.0 cr)
PUBH 6765 - Continuous Quality Improvement: Methods and Techniques (3.0 cr)
PUBH 6803 - Conducting a Systematic Literature Review (3.0 cr)
PUBH 6805 - Introduction to Project Management for Health Professionals (2.0 cr)
PUBH 6806 - Principles of Public Health Research (2.0 cr)
PUBH 6832 - Economics of the Health Care System (3.0 cr)
PUBH 6809 - Advanced Methods in Health Decision Science (3.0 cr)
PUBH 6812 *{Inactive}*(2.0 cr)
PUBH 6813 - Managing Electronic Health Information (2.0 cr)
PUBH 6814 *{Inactive}*(2.0 cr)
PUBH 6815 - Community-based Participatory Research (2.0 cr)
PUBH 7214 - Principles of Risk Communication (1.0 cr)
PUBH 6835 *{Inactive}*(2.0 cr)
PUBH 6845 - Using Demographic Data for Policy Analysis (3.0 cr)
PUBH 6855 - Medical Sociology (3.0 cr)
PUBH 6862 - Cost-Effectiveness Analysis in Health Care (3.0 cr)
PUBH 6863 - Understanding Health Care Quality (2.0 cr)
PUBH 6901 - Foundations of Public Health Nutrition Leadership (2.0 cr)
PUBH 6920 - Foundations of Interprofessional Professional Communication and Collaboration (1.0 cr)
PUBH 7210 - Topics: Global Food Systems (0.5 cr)
PUBH 7430 - Statistical Methods for Correlated Data (3.0 cr)
PUBH 7535 *{Inactive}*(3.0 cr)
PUBH 7236 *{Inactive}*(2.0 cr)
PUBH 7250 - Designing and Conducting Focus Group Interviews (1.0 cr)
PUBH 7252 *{Inactive}*(1.0 cr)
PUBH 7253 - Introduction to GIS (1.0 cr)
PUBH 7257 - Qualitative Data Analysis (1.0 cr)
PUBH 7475 - Statistical Learning and Data Mining (3.0 cr)
PUBH 7534 - Marketing for Health Care Professionals (1.0 cr)
PUBH 7541 - Statistics for Health Management Decision Making (3.0 cr)
PUBH 7556 - Health and Health Systems (2.0 cr)
PUBH 7562 - Information Technology in Health Care (2.0 cr)
PUBH 7564 - Private Purchasers of Health Care (2.0 cr)
PUBH 7565 - Innovation of Healthcare Services (2.0 cr)
PUBH 7568 - Interdisciplinary Teamwork in Health Care (2.0 cr)
PUBH 7569 - Health Care Policy (1.0 cr)
PUBH 8140 *{Inactive}*(2.0 cr)
PUBH 8141 - Doctoral Seminar in Observational Inference (2.0 cr)

-OR-

Global Environmental Health (20 credits)

Required Coursework (11 credits)

Take the following courses. PUBH 6108 must be taken for two credits.
PUBH 6131 - Working in Global Health (2.0 cr)
PUBH 6182 - Emerging Infectious Disease: Current Issues, Policies, and Controversies (3.0 cr)
PUBH 6132 - Air, Water, and Health (2.0 cr)
PUBH 6134 - Sustainable Development and Global Public Health (2.0 cr)
PUBH 6108 - Foundations of Global Health (2.0 cr)

Electives (9 credits)

Choose electives in consultation with the advisor to meet the 42-credit minimum.
PUBH 6385 - Epidemiology and Control of Infectious Diseases (2.0 cr)

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PUBH 6601 - Born a Girl: Global Women's Health (1.0 cr)
PUBH 6852 - Program Evaluation in Health and Mental Health Settings (2.0 cr)
PUBH 6034 - Evaluation I: Concepts (3.0 cr)
PUBH 6045 - Skills for Policy Development (1.0 cr)
PUBH 6055 - Social Inequalities in Health (2.0 cr)
PUBH 6066 - Building Communities, Increasing Health: Preparing for Community Health Work (2.0 cr)
PUBH 6527 - Healthcare Leadership and Effecting Change (2.0 cr)
PUBH 6906 - Global Nutrition (2.0 cr)
PA 5451 *{Inactive}*(3.0 cr)
PUBH 6730 - International Comparative Health Systems (2.0 cr)
PUBH 6605 - Sexual, Reproductive, and Perinatal Public Health (2.0 cr)
PUBH 6106 *{Inactive}*(2.0 cr)
PUBH 6112 - Environmental Health Risk Assessment: Application to Human Health Risks from Exposure to Chemicals (2.0 cr)
PUBH 6120 - Injury Prevention in the Workplace, Community, and Home (2.0 cr)
PUBH 6123 - Violence Prevention and Control: Theory, Research, and Application (2.0 cr)
PUBH 6130 - Occupational Medicine: Principles and Practice (2.0 cr)
PUBH 6140 - Occupational and Environmental Epidemiology (2.0 cr)
PUBH 6150 - Interdisciplinary Evaluation of Occupational Health and Safety Field Problems (3.0 cr)
PUBH 6154 - Climate Change and Global Health Modeling (3.0 cr)
PUBH 6160 - Principles of Toxicology II (3.0 cr)
PUBH 6162 - Biomarkers (2.0 cr)
PUBH 6170 - Introduction to Occupational Health and Safety (3.0 cr)
PUBH 6181 - Surveillance of Foodborne Diseases and Food Safety Hazards (2.0 cr)
PUBH 6173 - Exposure to Physical Agents (2.0 cr)
PUBH 6011 - Public Health Approaches to HIV/AIDS (3.0 cr)
PUBH 6232 - Emergency Preparedness: A Public Health Perspective (2.0 cr)
PUBH 6386 - Cardiovascular Disease Epidemiology and Prevention (2.0 cr)
PUBH 6035 - Evaluation II: Planning & Evaluation (3.0 cr)
PUBH 6190 - Environmental Chemistry (3.0 cr)
PUBH 6049 - Legislative Advocacy Skills for Public Health (3.0 cr)
PUBH 6210 *{Inactive}*(1.0 cr)
PUBH 6060 - Motivational Interviewing: Strategies to Effect Behavior Change (1.0 cr)
PUBH 6074 - Mass Communication and Public Health (3.0 cr)
PUBH 6078 - Public Health Policy as a Prevention Strategy (2.0 cr)
PUBH 6085 *{Inactive}*(2.0 cr)
PUBH 6094 - Interventions to Address Weight-Related Health and Eating Disorders (2.0 cr)
PUBH 6342 - Epidemiologic Methods II (3.0 cr)
PUBH 6343 - Epidemiologic Methods III (4.0 cr)
PUBH 6344 - Completing the Integrative Learning Experience: Secondary Data Analysis (2.0 cr)
PUBH 6389 - Nutritional Epidemiology (2.0 cr)
PUBH 6350 - Epidemiologic Methods III: Lab (1.0 cr)
PUBH 6355 - Pathophysiology of Human Disease (4.0 cr)
PUBH 6381 - Genetics in Public Health in the Age of Precision Medicine (2.0 cr)
PUBH 6420 - Introduction to SAS Programming (1.0 cr)
PUBH 6431 - Topics in Hierarchical Bayesian Analysis (1.0 cr)
PUBH 6470 *{Inactive}*(3.0 cr)
PUBH 6541 - Statistics for Health Management Decision Making (3.0 cr)
PUBH 6542 - Management of Health Care Organizations (3.0 cr)
PUBH 6544 - Principles of Problem Solving in Health Services Organizations (3.0 cr)
PUBH 6547 - Health Care Human Resources Management (2.0 cr)
PUBH 6555 - Health Economics (2.0 cr)
PUBH 6556 - Health and Health Systems (3.0 cr)
PUBH 6560 - Operations Research and Quality in Health Care (3.0 cr)
PUBH 6562 - Information Technology in Health Care (2.0 cr)
PUBH 6563 - Integrated Delivery Systems (2.0 cr)
PUBH 6564 - Private Purchasers of Health Care: Roles of Employers and Health Plans in U.S. Health Care System (2.0 cr)
PUBH 6565 - Innovation of Healthcare Services (2.0 cr)
PUBH 6571 - Quality, Patient Safety, and Performance Improvement (2.0 cr)
PUBH 6589 - Medical Technology Evaluation and Market Research (2.0 cr)
PUBH 6596 - Legal Considerations in Health Services Organizations (2.0 cr)
PUBH 6617 *{Inactive}*(3.0 cr)
PUBH 6627 - Sexuality Education: Criteria, Curricula, and Controversy (1.0 cr)
PUBH 6630 - Foundations of Maternal and Child Health Leadership (3.0 cr)
PUBH 6634 *{Inactive}*(2.0 cr)
PUBH 6655 *{Inactive}*(2.0 cr)
PUBH 6702 - Integrative Leadership Seminar (3.0 cr)

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Information current as of March 29, 2024

PUBH 6711 - Public Health Law (2.0 cr)
PUBH 6717 - Decision Analysis for Health Care (2.0 cr)
PUBH 6724 - The Health Care System and Public Health (3.0 cr)
PUBH 6727 - Health Leadership and Effecting Change (2.0 cr)
PUBH 6729 *{Inactive}*(1.0 cr)
PUBH 6742 - Ethics in Public Health: Research and Policy (1.0 cr)
PUBH 6755 - Planning and Budgeting for Public Health (2.0 cr)
PUBH 6765 - Continuous Quality Improvement: Methods and Techniques (3.0 cr)
PUBH 6803 - Conducting a Systematic Literature Review (3.0 cr)
PUBH 6805 - Introduction to Project Management for Health Professionals (2.0 cr)
PUBH 6806 - Principles of Public Health Research (2.0 cr)
PUBH 6832 - Economics of the Health Care System (3.0 cr)
PUBH 6809 - Advanced Methods in Health Decision Science (3.0 cr)
PUBH 6810 - Survey Research Methods (3.0 cr)
PUBH 6812 *{Inactive}*(2.0 cr)
PUBH 6813 - Managing Electronic Health Information (2.0 cr)
PUBH 6814 *{Inactive}*(2.0 cr)
PUBH 6815 - Community-based Participatory Research (2.0 cr)
PUBH 7214 - Principles of Risk Communication (1.0 cr)
PUBH 6835 *{Inactive}*(2.0 cr)
PUBH 6845 - Using Demographic Data for Policy Analysis (3.0 cr)
PUBH 7222 - Best Practices in Emergency Response (1.0 cr)
PUBH 6855 - Medical Sociology (3.0 cr)
PUBH 6862 - Cost-Effectiveness Analysis in Health Care (3.0 cr)
PUBH 6863 - Understanding Health Care Quality (2.0 cr)
PUBH 6901 - Foundations of Public Health Nutrition Leadership (2.0 cr)
PUBH 6920 - Foundations of Interprofessional Professional Communication and Collaboration (1.0 cr)
PUBH 7210 - Topics: Global Food Systems (0.5 cr)
PUBH 7430 - Statistical Methods for Correlated Data (3.0 cr)
PUBH 7535 *{Inactive}*(3.0 cr)
PUBH 7236 *{Inactive}*(2.0 cr)
PUBH 7250 - Designing and Conducting Focus Group Interviews (1.0 cr)
PUBH 7252 *{Inactive}*(1.0 cr)
PUBH 7253 - Introduction to GIS (1.0 cr)
PUBH 7257 - Qualitative Data Analysis (1.0 cr)
PUBH 7475 - Statistical Learning and Data Mining (3.0 cr)
PUBH 7534 - Marketing for Health Care Professionals (1.0 cr)
PUBH 7541 - Statistics for Health Management Decision Making (3.0 cr)
PUBH 7556 - Health and Health Systems (2.0 cr)
PUBH 7562 - Information Technology in Health Care (2.0 cr)
PUBH 7564 - Private Purchasers of Health Care (2.0 cr)
PUBH 7565 - Innovation of Healthcare Services (2.0 cr)
PUBH 7568 - Interdisciplinary Teamwork in Health Care (2.0 cr)
PUBH 7569 - Health Care Policy (1.0 cr)
PUBH 8140 *{Inactive}*(2.0 cr)
PUBH 8141 - Doctoral Seminar in Observational Inference (2.0 cr)

-OR-

Occupational and Environmental Health Nursing (20 credits)
Required Coursework (9 credits)
Take the following courses:
PUBH 6130 - Occupational Medicine: Principles and Practice (2.0 cr)
PUBH 6150 - Interdisciplinary Evaluation of Occupational Health and Safety Field Problems (3.0 cr)
PUBH 6170 - Introduction to Occupational Health and Safety (3.0 cr)
PUBH 6151 - Occupational and Environmental Health Nursing Seminar (1.0 cr)
Electives (11 credits)
Choose electives in consultation with the advisor to meet the 42-credit minimum.
PUBH 6385 - Epidemiology and Control of Infectious Diseases (2.0 cr)
PUBH 6601 - Born a Girl: Global Women's Health (1.0 cr)
PUBH 6852 - Program Evaluation in Health and Mental Health Settings (2.0 cr)
PUBH 6034 - Evaluation I: Concepts (3.0 cr)
PUBH 6045 - Skills for Policy Development (1.0 cr)
PUBH 6055 - Social Inequalities in Health (2.0 cr)
PUBH 6066 - Building Communities, Increasing Health: Preparing for Community Health Work (2.0 cr)
PUBH 6527 - Healthcare Leadership and Effecting Change (2.0 cr)
PUBH 6906 - Global Nutrition (2.0 cr)

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PA 5451 *{Inactive}*(3.0 cr)
PUBH 6730 - International Comparative Health Systems (2.0 cr)
PUBH 6605 - Sexual, Reproductive, and Perinatal Public Health (2.0 cr)
PUBH 6106 *{Inactive}*(2.0 cr)
PUBH 6112 - Environmental Health Risk Assessment: Application to Human Health Risks from Exposure to Chemicals (2.0 cr)
PUBH 6120 - Injury Prevention in the Workplace, Community, and Home (2.0 cr)
PUBH 6123 - Violence Prevention and Control: Theory, Research, and Application (2.0 cr)
PUBH 6140 - Occupational and Environmental Epidemiology (2.0 cr)
PUBH 6154 - Climate Change and Global Health Modeling (3.0 cr)
PUBH 6160 - Principles of Toxicology II (3.0 cr)
PUBH 6162 - Biomarkers (2.0 cr)
PUBH 6181 - Surveillance of Foodborne Diseases and Food Safety Hazards (2.0 cr)
PUBH 6173 - Exposure to Physical Agents (2.0 cr)
PUBH 6011 - Public Health Approaches to HIV/AIDS (3.0 cr)
PUBH 6232 - Emergency Preparedness: A Public Health Perspective (2.0 cr)
PUBH 6386 - Cardiovascular Disease Epidemiology and Prevention (2.0 cr)
PUBH 6035 - Evaluation II: Planning & Evaluation (3.0 cr)
PUBH 6190 - Environmental Chemistry (3.0 cr)
PUBH 6049 - Legislative Advocacy Skills for Public Health (3.0 cr)
PUBH 6210 *{Inactive}*(1.0 cr)
PUBH 6060 - Motivational Interviewing: Strategies to Effect Behavior Change (1.0 cr)
PUBH 6074 - Mass Communication and Public Health (3.0 cr)
PUBH 6078 - Public Health Policy as a Prevention Strategy (2.0 cr)
PUBH 6085 *{Inactive}*(2.0 cr)
PUBH 6094 - Interventions to Address Weight-Related Health and Eating Disorders (2.0 cr)
PUBH 6342 - Epidemiologic Methods II (3.0 cr)
PUBH 6343 - Epidemiologic Methods III (4.0 cr)
PUBH 6344 - Completing the Integrative Learning Experience: Secondary Data Analysis (2.0 cr)
PUBH 6389 - Nutritional Epidemiology (2.0 cr)
PUBH 6350 - Epidemiologic Methods III: Lab (1.0 cr)
PUBH 6355 - Pathophysiology of Human Disease (4.0 cr)
PUBH 6381 - Genetics in Public Health in the Age of Precision Medicine (2.0 cr)
PUBH 6420 - Introduction to SAS Programming (1.0 cr)
PUBH 6431 - Topics in Hierarchical Bayesian Analysis (1.0 cr)
PUBH 6470 *{Inactive}*(3.0 cr)
PUBH 6541 - Statistics for Health Management Decision Making (3.0 cr)
PUBH 6542 - Management of Health Care Organizations (3.0 cr)
PUBH 6544 - Principles of Problem Solving in Health Services Organizations (3.0 cr)
PUBH 6547 - Health Care Human Resources Management (2.0 cr)
PUBH 6555 - Health Economics (2.0 cr)
PUBH 6556 - Health and Health Systems (3.0 cr)
PUBH 6560 - Operations Research and Quality in Health Care (3.0 cr)
PUBH 6562 - Information Technology in Health Care (2.0 cr)
PUBH 6563 - Integrated Delivery Systems (2.0 cr)
PUBH 6564 - Private Purchasers of Health Care: Roles of Employers and Health Plans in U.S. Health Care System (2.0 cr)
PUBH 6565 - Innovation of Healthcare Services (2.0 cr)
PUBH 6571 - Quality, Patient Safety, and Performance Improvement (2.0 cr)
PUBH 6589 - Medical Technology Evaluation and Market Research (2.0 cr)
PUBH 6596 - Legal Considerations in Health Services Organizations (2.0 cr)
PUBH 6617 *{Inactive}*(3.0 cr)
PUBH 6627 - Sexuality Education: Criteria, Curricula, and Controversy (1.0 cr)
PUBH 6630 - Foundations of Maternal and Child Health Leadership (3.0 cr)
PUBH 6634 *{Inactive}*(2.0 cr)
PUBH 6655 *{Inactive}*(2.0 cr)
PUBH 6702 - Integrative Leadership Seminar (3.0 cr)
PUBH 6711 - Public Health Law (2.0 cr)
PUBH 6717 - Decision Analysis for Health Care (2.0 cr)
PUBH 6724 - The Health Care System and Public Health (3.0 cr)
PUBH 6727 - Health Leadership and Effecting Change (2.0 cr)
PUBH 6729 *{Inactive}*(1.0 cr)
PUBH 6742 - Ethics in Public Health: Research and Policy (1.0 cr)
PUBH 6755 - Planning and Budgeting for Public Health (2.0 cr)
PUBH 6803 - Conducting a Systematic Literature Review (3.0 cr)
PUBH 6805 - Introduction to Project Management for Health Professionals (2.0 cr)
PUBH 6806 - Principles of Public Health Research (2.0 cr)
PUBH 6832 - Economics of the Health Care System (3.0 cr)

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PUBH 6809 - Advanced Methods in Health Decision Science (3.0 cr)
PUBH 6810 - Survey Research Methods (3.0 cr)
PUBH 6812 *{Inactive}*(2.0 cr)
PUBH 6813 - Managing Electronic Health Information (2.0 cr)
PUBH 6814 *{Inactive}*(2.0 cr)
PUBH 6815 - Community-based Participatory Research (2.0 cr)
PUBH 7214 - Principles of Risk Communication (1.0 cr)
PUBH 6835 *{Inactive}*(2.0 cr)
PUBH 6845 - Using Demographic Data for Policy Analysis (3.0 cr)
PUBH 7222 - Best Practices in Emergency Response (1.0 cr)
PUBH 6855 - Medical Sociology (3.0 cr)
PUBH 6862 - Cost-Effectiveness Analysis in Health Care (3.0 cr)
PUBH 6863 - Understanding Health Care Quality (2.0 cr)
PUBH 6901 - Foundations of Public Health Nutrition Leadership (2.0 cr)
PUBH 6920 - Foundations of Interprofessional Professional Communication and Collaboration (1.0 cr)
PUBH 7210 - Topics: Global Food Systems (0.5 cr)
PUBH 7430 - Statistical Methods for Correlated Data (3.0 cr)
PUBH 7535 *{Inactive}*(3.0 cr)
PUBH 7236 *{Inactive}*(2.0 cr)
PUBH 7250 - Designing and Conducting Focus Group Interviews (1.0 cr)
PUBH 7252 *{Inactive}*(1.0 cr)
PUBH 7253 - Introduction to GIS (1.0 cr)
PUBH 7257 - Qualitative Data Analysis (1.0 cr)
PUBH 7475 - Statistical Learning and Data Mining (3.0 cr)
PUBH 7534 - Marketing for Health Care Professionals (1.0 cr)
PUBH 7541 - Statistics for Health Management Decision Making (3.0 cr)
PUBH 7556 - Health and Health Systems (2.0 cr)
PUBH 7562 - Information Technology in Health Care (2.0 cr)
PUBH 7564 - Private Purchasers of Health Care (2.0 cr)
PUBH 7565 - Innovation of Healthcare Services (2.0 cr)
PUBH 7568 - Interdisciplinary Teamwork in Health Care (2.0 cr)
PUBH 7569 - Health Care Policy (1.0 cr)
PUBH 8140 *{Inactive}*(2.0 cr)
PUBH 8141 - Doctoral Seminar in Observational Inference (2.0 cr)

-OR-

Occupational and Environmental Medicine (20 credits)

Required Coursework (19 credits)

Take the following courses:
PUBH 6120 - Injury Prevention in the Workplace, Community, and Home (2.0 cr)
PUBH 6130 - Occupational Medicine: Principles and Practice (2.0 cr)
PUBH 6140 - Occupational and Environmental Epidemiology (2.0 cr)
PUBH 6150 - Interdisciplinary Evaluation of Occupational Health and Safety Field Problems (3.0 cr)
PUBH 6159 - Principles of Toxicology I (2.0 cr)
PUBH 6170 - Introduction to Occupational Health and Safety (3.0 cr)
PUBH 6173 - Exposure to Physical Agents (2.0 cr)
PUBH 6387 - Cancer Epidemiology (2.0 cr)
PUBH 8120 - Occupational and Environmental Health Sciences Research Seminar (1.0 cr)

Electives (1 credit)

Choose electives in consultation with the advisor to meet the 42-credit minimum.
PUBH 6385 - Epidemiology and Control of Infectious Diseases (2.0 cr)
PUBH 6601 - Born a Girl: Global Women's Health (1.0 cr)
PUBH 6852 - Program Evaluation in Health and Mental Health Settings (2.0 cr)
PUBH 6034 - Evaluation I: Concepts (3.0 cr)
PUBH 6045 - Skills for Policy Development (1.0 cr)
PUBH 6055 - Social Inequalities in Health (2.0 cr)
PUBH 6066 - Building Communities, Increasing Health: Preparing for Community Health Work (2.0 cr)
PUBH 6527 - Healthcare Leadership and Effecting Change (2.0 cr)
PA 5451 *{Inactive}*(3.0 cr)
PUBH 6906 - Global Nutrition (2.0 cr)
PUBH 6730 - International Comparative Health Systems (2.0 cr)
PUBH 6605 - Sexual, Reproductive, and Perinatal Public Health (2.0 cr)
PUBH 6106 *{Inactive}*(2.0 cr)
PUBH 6112 - Environmental Health Risk Assessment: Application to Human Health Risks from Exposure to Chemicals (2.0 cr)
PUBH 6123 - Violence Prevention and Control: Theory, Research, and Application (2.0 cr)
PUBH 6154 - Climate Change and Global Health Modeling (3.0 cr)

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PUBH 6160 - Principles of Toxicology II (3.0 cr)
PUBH 6162 - Biomarkers (2.0 cr)
PUBH 6181 - Surveillance of Foodborne Diseases and Food Safety Hazards (2.0 cr)
PUBH 6011 - Public Health Approaches to HIV/AIDS (3.0 cr)
PUBH 6232 - Emergency Preparedness: A Public Health Perspective (2.0 cr)
PUBH 6386 - Cardiovascular Disease Epidemiology and Prevention (2.0 cr)
PUBH 6035 - Evaluation II: Planning & Evaluation (3.0 cr)
PUBH 6190 - Environmental Chemistry (3.0 cr)
PUBH 6049 - Legislative Advocacy Skills for Public Health (3.0 cr)
PUBH 6210 *{Inactive}*(1.0 cr)
PUBH 6060 - Motivational Interviewing: Strategies to Effect Behavior Change (1.0 cr)
PUBH 6074 - Mass Communication and Public Health (3.0 cr)
PUBH 6078 - Public Health Policy as a Prevention Strategy (2.0 cr)
PUBH 6085 *{Inactive}*(2.0 cr)
PUBH 6094 - Interventions to Address Weight-Related Health and Eating Disorders (2.0 cr)
PUBH 6342 - Epidemiologic Methods II (3.0 cr)
PUBH 6343 - Epidemiologic Methods III (4.0 cr)
PUBH 6344 - Completing the Integrative Learning Experience: Secondary Data Analysis (2.0 cr)
PUBH 6389 - Nutritional Epidemiology (2.0 cr)
PUBH 6350 - Epidemiologic Methods III: Lab (1.0 cr)
PUBH 6355 - Pathophysiology of Human Disease (4.0 cr)
PUBH 6381 - Genetics in Public Health in the Age of Precision Medicine (2.0 cr)
PUBH 6420 - Introduction to SAS Programming (1.0 cr)
PUBH 6431 - Topics in Hierarchical Bayesian Analysis (1.0 cr)
PUBH 6470 *{Inactive}*(3.0 cr)
PUBH 6541 - Statistics for Health Management Decision Making (3.0 cr)
PUBH 6542 - Management of Health Care Organizations (3.0 cr)
PUBH 6544 - Principles of Problem Solving in Health Services Organizations (3.0 cr)
PUBH 6547 - Health Care Human Resources Management (2.0 cr)
PUBH 6555 - Health Economics (2.0 cr)
PUBH 6556 - Health and Health Systems (3.0 cr)
PUBH 6560 - Operations Research and Quality in Health Care (3.0 cr)
PUBH 6562 - Information Technology in Health Care (2.0 cr)
PUBH 6563 - Integrated Delivery Systems (2.0 cr)
PUBH 6564 - Private Purchasers of Health Care: Roles of Employers and Health Plans in U.S. Health Care System (2.0 cr)
PUBH 6565 - Innovation of Healthcare Services (2.0 cr)
PUBH 6571 - Quality, Patient Safety, and Performance Improvement (2.0 cr)
PUBH 6589 - Medical Technology Evaluation and Market Research (2.0 cr)
PUBH 6596 - Legal Considerations in Health Services Organizations (2.0 cr)
PUBH 6617 *{Inactive}*(3.0 cr)
PUBH 6627 - Sexuality Education: Criteria, Curricula, and Controversy (1.0 cr)
PUBH 6630 - Foundations of Maternal and Child Health Leadership (3.0 cr)
PUBH 6634 *{Inactive}*(2.0 cr)
PUBH 6655 *{Inactive}*(2.0 cr)
PUBH 6702 - Integrative Leadership Seminar (3.0 cr)
PUBH 6711 - Public Health Law (2.0 cr)
PUBH 6717 - Decision Analysis for Health Care (2.0 cr)
PUBH 6724 - The Health Care System and Public Health (3.0 cr)
PUBH 6727 - Health Leadership and Effecting Change (2.0 cr)
PUBH 6729 *{Inactive}*(1.0 cr)
PUBH 6742 - Ethics in Public Health: Research and Policy (1.0 cr)
PUBH 6755 - Planning and Budgeting for Public Health (2.0 cr)
PUBH 6765 - Continuous Quality Improvement: Methods and Techniques (3.0 cr)
PUBH 6803 - Conducting a Systematic Literature Review (3.0 cr)
PUBH 6805 - Introduction to Project Management for Health Professionals (2.0 cr)
PUBH 6806 - Principles of Public Health Research (2.0 cr)
PUBH 6832 - Economics of the Health Care System (3.0 cr)
PUBH 6809 - Advanced Methods in Health Decision Science (3.0 cr)
PUBH 6810 - Survey Research Methods (3.0 cr)
PUBH 6812 *{Inactive}*(2.0 cr)
PUBH 6813 - Managing Electronic Health Information (2.0 cr)
PUBH 6814 *{Inactive}*(2.0 cr)
PUBH 6815 - Community-based Participatory Research (2.0 cr)
PUBH 7214 - Principles of Risk Communication (1.0 cr)
PUBH 6835 *{Inactive}*(2.0 cr)
PUBH 6845 - Using Demographic Data for Policy Analysis (3.0 cr)

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Information current as of March 29, 2024

PUBH 7222 - Best Practices in Emergency Response (1.0 cr)
PUBH 6855 - Medical Sociology (3.0 cr)
PUBH 6862 - Cost-Effectiveness Analysis in Health Care (3.0 cr)
PUBH 6863 - Understanding Health Care Quality (2.0 cr)
PUBH 6901 - Foundations of Public Health Nutrition Leadership (2.0 cr)
PUBH 6920 - Foundations of Interprofessional Professional Communication and Collaboration (1.0 cr)
PUBH 7210 - Topics: Global Food Systems (0.5 cr)
PUBH 7430 - Statistical Methods for Correlated Data (3.0 cr)
PUBH 7535 *{Inactive}*(3.0 cr)
PUBH 7236 *{Inactive}*(2.0 cr)
PUBH 7250 - Designing and Conducting Focus Group Interviews (1.0 cr)
PUBH 7252 *{Inactive}*(1.0 cr)
PUBH 7253 - Introduction to GIS (1.0 cr)
PUBH 7257 - Qualitative Data Analysis (1.0 cr)
PUBH 7475 - Statistical Learning and Data Mining (3.0 cr)
PUBH 7534 - Marketing for Health Care Professionals (1.0 cr)
PUBH 7541 - Statistics for Health Management Decision Making (3.0 cr)
PUBH 7556 - Health and Health Systems (2.0 cr)
PUBH 7562 - Information Technology in Health Care (2.0 cr)
PUBH 7564 - Private Purchasers of Health Care (2.0 cr)
PUBH 7565 - Innovation of Healthcare Services (2.0 cr)
PUBH 7568 - Interdisciplinary Teamwork in Health Care (2.0 cr)
PUBH 7569 - Health Care Policy (1.0 cr)
PUBH 8140 *{Inactive}*(2.0 cr)
PUBH 8141 - Doctoral Seminar in Observational Inference (2.0 cr)

-OR-

Regulatory Toxicology and Risk Assessment (20 credits)

Required Coursework (14 credits)

Take the following courses:
PUBH 6112 - Environmental Health Risk Assessment: Application to Human Health Risks from Exposure to Chemicals (2.0 cr)
PUBH 6159 - Principles of Toxicology I (2.0 cr)
PUBH 6160 - Principles of Toxicology II (3.0 cr)
PUBH 6161 - Regulatory Toxicology (2.0 cr)
PUBH 6162 - Biomarkers (2.0 cr)
PUBH 8160 - Advanced Toxicology (2.0 cr)
PUBH 8161 - Current Literature in Toxicology (1.0 cr)

Electives (6 credits)

Choose electives in consultation with the advisor to meet the 42-credit minimum.
PUBH 6385 - Epidemiology and Control of Infectious Diseases (2.0 cr)
PUBH 6601 - Born a Girl: Global Women's Health (1.0 cr)
PUBH 6852 - Program Evaluation in Health and Mental Health Settings (2.0 cr)
PUBH 6034 - Evaluation I: Concepts (3.0 cr)
PUBH 6045 - Skills for Policy Development (1.0 cr)
PUBH 6055 - Social Inequalities in Health (2.0 cr)
PUBH 6066 - Building Communities, Increasing Health: Preparing for Community Health Work (2.0 cr)
PUBH 6527 - Healthcare Leadership and Effecting Change (2.0 cr)
PUBH 6906 - Global Nutrition (2.0 cr)
PA 5451 *{Inactive}*(3.0 cr)
PUBH 6730 - International Comparative Health Systems (2.0 cr)
PUBH 6605 - Sexual, Reproductive, and Perinatal Public Health (2.0 cr)
PUBH 6106 *{Inactive}*(2.0 cr)
PUBH 6120 - Injury Prevention in the Workplace, Community, and Home (2.0 cr)
PUBH 6123 - Violence Prevention and Control: Theory, Research, and Application (2.0 cr)
PUBH 6130 - Occupational Medicine: Principles and Practice (2.0 cr)
PUBH 6140 - Occupational and Environmental Epidemiology (2.0 cr)
PUBH 6150 - Interdisciplinary Evaluation of Occupational Health and Safety Field Problems (3.0 cr)
PUBH 6154 - Climate Change and Global Health Modeling (3.0 cr)
PUBH 6170 - Introduction to Occupational Health and Safety (3.0 cr)
PUBH 6181 - Surveillance of Foodborne Diseases and Food Safety Hazards (2.0 cr)
PUBH 6173 - Exposure to Physical Agents (2.0 cr)
PUBH 6011 - Public Health Approaches to HIV/AIDS (3.0 cr)
PUBH 6232 - Emergency Preparedness: A Public Health Perspective (2.0 cr)
PUBH 6386 - Cardiovascular Disease Epidemiology and Prevention (2.0 cr)
PUBH 6035 - Evaluation II: Planning & Evaluation (3.0 cr)
PUBH 6190 - Environmental Chemistry (3.0 cr)

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PUBH 6049 - Legislative Advocacy Skills for Public Health (3.0 cr)
PUBH 6210 *{Inactive}*(1.0 cr)
PUBH 6060 - Motivational Interviewing: Strategies to Effect Behavior Change (1.0 cr)
PUBH 6074 - Mass Communication and Public Health (3.0 cr)
PUBH 6078 - Public Health Policy as a Prevention Strategy (2.0 cr)
PUBH 6085 *{Inactive}*(2.0 cr)
PUBH 6094 - Interventions to Address Weight-Related Health and Eating Disorders (2.0 cr)
PUBH 6342 - Epidemiologic Methods II (3.0 cr)
PUBH 6343 - Epidemiologic Methods III (4.0 cr)
PUBH 6344 - Completing the Integrative Learning Experience: Secondary Data Analysis (2.0 cr)
PUBH 6389 - Nutritional Epidemiology (2.0 cr)
PUBH 6350 - Epidemiologic Methods III: Lab (1.0 cr)
PUBH 6355 - Pathophysiology of Human Disease (4.0 cr)
PUBH 6381 - Genetics in Public Health in the Age of Precision Medicine (2.0 cr)
PUBH 6420 - Introduction to SAS Programming (1.0 cr)
PUBH 6431 - Topics in Hierarchical Bayesian Analysis (1.0 cr)
PUBH 6470 *{Inactive}*(3.0 cr)
PUBH 6541 - Statistics for Health Management Decision Making (3.0 cr)
PUBH 6542 - Management of Health Care Organizations (3.0 cr)
PUBH 6544 - Principles of Problem Solving in Health Services Organizations (3.0 cr)
PUBH 6547 - Health Care Human Resources Management (2.0 cr)
PUBH 6555 - Health Economics (2.0 cr)
PUBH 6556 - Health and Health Systems (3.0 cr)
PUBH 6560 - Operations Research and Quality in Health Care (3.0 cr)
PUBH 6562 - Information Technology in Health Care (2.0 cr)
PUBH 6563 - Integrated Delivery Systems (2.0 cr)
PUBH 6564 - Private Purchasers of Health Care: Roles of Employers and Health Plans in U.S. Health Care System (2.0 cr)
PUBH 6565 - Innovation of Healthcare Services (2.0 cr)
PUBH 6571 - Quality, Patient Safety, and Performance Improvement (2.0 cr)
PUBH 6589 - Medical Technology Evaluation and Market Research (2.0 cr)
PUBH 6596 - Legal Considerations in Health Services Organizations (2.0 cr)
PUBH 6617 *{Inactive}*(3.0 cr)
PUBH 6627 - Sexuality Education: Criteria, Curricula, and Controversy (1.0 cr)
PUBH 6630 - Foundations of Maternal and Child Health Leadership (3.0 cr)
PUBH 6634 *{Inactive}*(2.0 cr)
PUBH 6655 *{Inactive}*(2.0 cr)
PUBH 6702 - Integrative Leadership Seminar (3.0 cr)
PUBH 6711 - Public Health Law (2.0 cr)
PUBH 6717 - Decision Analysis for Health Care (2.0 cr)
PUBH 6724 - The Health Care System and Public Health (3.0 cr)
PUBH 6727 - Health Leadership and Effecting Change (2.0 cr)
PUBH 6729 *{Inactive}*(1.0 cr)
PUBH 6742 - Ethics in Public Health: Research and Policy (1.0 cr)
PUBH 6755 - Planning and Budgeting for Public Health (2.0 cr)
PUBH 6765 - Continuous Quality Improvement: Methods and Techniques (3.0 cr)
PUBH 6803 - Conducting a Systematic Literature Review (3.0 cr)
PUBH 6805 - Introduction to Project Management for Health Professionals (2.0 cr)
PUBH 6806 - Principles of Public Health Research (2.0 cr)
PUBH 6832 - Economics of the Health Care System (3.0 cr)
PUBH 6809 - Advanced Methods in Health Decision Science (3.0 cr)
PUBH 6810 - Survey Research Methods (3.0 cr)
PUBH 6812 *{Inactive}*(2.0 cr)
PUBH 6813 - Managing Electronic Health Information (2.0 cr)
PUBH 6814 *{Inactive}*(2.0 cr)
PUBH 6815 - Community-based Participatory Research (2.0 cr)
PUBH 7214 - Principles of Risk Communication (1.0 cr)
PUBH 6835 *{Inactive}*(2.0 cr)
PUBH 6845 - Using Demographic Data for Policy Analysis (3.0 cr)
PUBH 7222 - Best Practices in Emergency Response (1.0 cr)
PUBH 6855 - Medical Sociology (3.0 cr)
PUBH 6862 - Cost-Effectiveness Analysis in Health Care (3.0 cr)
PUBH 6863 - Understanding Health Care Quality (2.0 cr)
PUBH 6901 - Foundations of Public Health Nutrition Leadership (2.0 cr)
PUBH 6920 - Foundations of Interprofessional Professional Communication and Collaboration (1.0 cr)
PUBH 7210 - Topics: Global Food Systems (0.5 cr)
PUBH 7430 - Statistical Methods for Correlated Data (3.0 cr)

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Information current as of March 29, 2024

PUBH 7535 *{Inactive}*(3.0 cr)
PUBH 7236 *{Inactive}*(2.0 cr)
PUBH 7250 - Designing and Conducting Focus Group Interviews (1.0 cr)
PUBH 7252 *{Inactive}*(1.0 cr)
PUBH 7253 - Introduction to GIS (1.0 cr)
PUBH 7257 - Qualitative Data Analysis (1.0 cr)
PUBH 7475 - Statistical Learning and Data Mining (3.0 cr)
PUBH 7534 - Marketing for Health Care Professionals (1.0 cr)
PUBH 7541 - Statistics for Health Management Decision Making (3.0 cr)
PUBH 7556 - Health and Health Systems (2.0 cr)
PUBH 7562 - Information Technology in Health Care (2.0 cr)
PUBH 7564 - Private Purchasers of Health Care (2.0 cr)
PUBH 7565 - Innovation of Healthcare Services (2.0 cr)
PUBH 7568 - Interdisciplinary Teamwork in Health Care (2.0 cr)
PUBH 7569 - Health Care Policy (1.0 cr)
PUBH 8140 *{Inactive}*(2.0 cr)
PUBH 8141 - Doctoral Seminar in Observational Inference (2.0 cr)

-OR-

Injury and Violence Epidemiology and Prevention (20 credits)

Required Coursework (8 credits)

Students taking electives from the Injury and Violence Epidemiology and Prevention emphasis must have taken PUBH 6341 and PUBH 6450.
PUBH 6120 - Injury Prevention in the Workplace, Community, and Home (2.0 cr)
PUBH 6123 - Violence Prevention and Control: Theory, Research, and Application (2.0 cr)
PUBH 6342 - Epidemiologic Methods II (3.0 cr)
PUBH 8120 - Occupational and Environmental Health Sciences Research Seminar (1.0 cr)

Electives (12 credits)

Choose electives in consultation with the advisor to meet the 42-credit minimum.
PUBH 6140 - Occupational and Environmental Epidemiology (2.0 cr)
PUBH 6121 *{Inactive}*(1.0 - 2.0 cr)
PUBH 6122 *{Inactive}*(1.0 cr)
PUBH 6173 - Exposure to Physical Agents (2.0 cr)
IE 5511 - Human Factors and Work Analysis (4.0 cr)
HUMF 5001 - Foundations of Human Factors/Ergonomics (3.0 cr)
IE 5513 - Engineering Safety (4.0 cr)
PUBH 6115 - Worker Protection Law (1.0 cr)
KIN 5723 - Psychology of Sport Injury and Rehabilitation (3.0 cr)
PSY 5501 - Self, Society and Health - What's Work Got To Do With It? (3.0 cr)
PUBH 6130 - Occupational Medicine: Principles and Practice (2.0 cr)
PUBH 6852 - Program Evaluation in Health and Mental Health Settings (2.0 cr)
KIN 5122 - Applied Exercise Physiology (3.0 cr)
PUBH 6343 - Epidemiologic Methods III (4.0 cr)
PUBH 8341 - Advanced Epidemiologic Methods: Concepts (3.0 cr)
PUBH 8342 - Advanced Epidemiologic Methods: Applications (3.0 cr)
PUBH 8343 - Synthesis and Application of Methods in Epidemiologic Research (3.0 cr)
PUBH 8142 *{Inactive}*(2.0 cr)
PUBH 6363 *{Inactive}*(3.0 cr)
PUBH 6636 - Qualitative Research Methods in Public Health Practice (2.0 cr)
PUBH 6806 - Principles of Public Health Research (2.0 cr)
PUBH 7450 - Survival Analysis (3.0 cr)
PUBH 6810 - Survey Research Methods (3.0 cr)
PUBH 7460 - Advanced Statistical Computing (3.0 cr)
PUBH 8813 - Measurement of Health-Related Social Factors (3.0 cr)
PUBH 6451 - Biostatistics II (4.0 cr)
PUBH 7401 - Fundamentals of Biostatistical Inference (4.0 cr)
PUBH 7405 - Biostatistical Inference I (4.0 cr)
PUBH 7406 - Biostatistical Inference II (3.0 cr)
PUBH 7407 - Analysis of Categorical Data (3.0 cr)
PUBH 7430 - Statistical Methods for Correlated Data (3.0 cr)
PUBH 7435 *{Inactive}*(3.0 cr)
PUBH 7440 - Introduction to Bayesian Analysis (3.0 cr)
PUBH 7402 - Biostatistics Modeling and Methods (4.0 cr)
PUBH 7420 - Clinical Trials: Design, Implementation, and Analysis (3.0 cr)

-OR-

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Food Safety (20 credits)

Required Coursework (15 credits)

Take the following courses. PUBH 7210 must be taken twice for a total of 1 credit.

PUBH 6181 - Surveillance of Foodborne Diseases and Food Safety Hazards (2.0 cr)
PUBH 6182 - Emerging Infectious Disease: Current Issues, Policies, and Controversies (3.0 cr)
PUBH 6183 - Theory and Practice in Foodborne Disease Outbreak Detection, Investigation and Control (1.0 cr)
PUBH 6385 - Epidemiology and Control of Infectious Diseases (2.0 cr)
PUBH 7210 - Topics: Global Food Systems (0.5 cr)
VMED 5180 - Ecology of Infectious Disease (3.0 cr)
FSCN 5131 - Food Quality for Graduate Credit (3.0 cr)

Electives (5 credits)

Choose electives in consultation with the advisor to meet the 42-credit minimum.

PUBH 6112 - Environmental Health Risk Assessment: Application to Human Health Risks from Exposure to Chemicals (2.0 cr)
PUBH 6711 - Public Health Law (2.0 cr)
PUBH 7214 - Principles of Risk Communication (1.0 cr)
VMED 5181 - Spatial Analysis in Infectious Disease Epidemiology (3.0 cr)
MICB 4131 - Immunology (3.0 cr)
MICB 4151 - Molecular and Genetic Bases for Microbial Diseases (3.0 cr)
MICB 4171 - Biology, Genetics, and Pathogenesis of Viruses (3.0 cr)

Joint- or Dual-degree Coursework:MPH-Environmental Health/JDStudent may take a total of 12 credits in common among the academic programs.

Program Sub-plans

A sub-plan is not required for this program.
Students may not complete the program with more than one sub-plan.

Industrial Hygiene

The Industrial Hygiene (IH) sub-plan, accredited by the Applied Science Accreditation Commission of ABET, focuses on the health and safety of people at work and the community at large. Specific concerns are with the recognition, evaluation and control of potential workplace hazards, including chemical, physical, and biological agents; and the potential health threats to the community and the environment. This sub-plan prepares well-qualified practitioners and researchers for an exciting career in industry, government organizations, and academic and research institutions.

Students pursuing the Industrial Hygiene track must complete the following in addition to the Public Health Core, Environmental Health, Applied Practice Experience, and Integrated Learning Experience coursework required of all Environmental Health MPH students.

Industrial Hygiene Requirements (21 credits)

Take the following courses:

PUBH 6172 - Industrial Hygiene Applications (2.0 cr)
PUBH 6174 - Control of Workplace Exposure (3.0 cr)
PUBH 6173 - Exposure to Physical Agents (2.0 cr)
PUBH 6175 - Environmental Measurements Laboratory (2.0 cr)
PUBH 6192 - Measurement and Properties of Air Contaminants (2.0 cr)
PUBH 6193 - Advanced Topics in Human Exposure Science (2.0 cr)
PUBH 6130 - Occupational Medicine: Principles and Practice (2.0 cr)
PUBH 6150 - Interdisciplinary Evaluation of Occupational Health and Safety Field Problems (3.0 cr)
PUBH 6170 - Introduction to Occupational Health and Safety (3.0 cr)

Electives (5 credits)

Select electives in consultation with the advisor to complete the 52-credit minimum.

PUBH 6112 - Environmental Health Risk Assessment: Application to Human Health Risks from Exposure to Chemicals (2.0 cr)
PUBH 6115 - Worker Protection Law (1.0 cr)
PUBH 6116 - Environmental Law (1.0 cr)
PUBH 6120 - Injury Prevention in the Workplace, Community, and Home (2.0 cr)
PUBH 6131 - Working in Global Health (2.0 cr)
PUBH 6132 - Air, Water, and Health (2.0 cr)
PUBH 6140 - Occupational and Environmental Epidemiology (2.0 cr)
PUBH 6161 - Regulatory Toxicology (2.0 cr)
PUBH 6177 - Nanotechnology Health and Safety (3.0 cr)
PUBH 6182 - Emerging Infectious Disease: Current Issues, Policies, and Controversies (3.0 cr)
PUBH 6190 - Environmental Chemistry (3.0 cr)
PUBH 6451 - Biostatistics II (4.0 cr)
CEGE 4561 - Solids and Hazardous Wastes (3.0 cr)
CEGE 5551 - Environmental Microbiology (3.0 cr)
IE 5511 - Human Factors and Work Analysis (4.0 cr)
IE 5513 - Engineering Safety (4.0 cr)

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KIN 5001 - Foundations of Human Factors/Ergonomics (3.0 cr)
ME 5113 - Aerosol/Particle Engineering (4.0 cr)
PA 5721 - Energy Systems and Policy (3.0 cr)
PUBH 6162 - Biomarkers (2.0 cr)

Integrated BS/MPH-Environmental Health

The School of Public Health (SPH) and the College of Biological Sciences (CBS) offer an early-admission opportunity for eligible University CBS Bachelor of Sciences students interested in pursuing the Environmental Health MPH degree. Students admitted to the Integrated BS/MPH Environmental Health sub-plan take 12 MPH credits during their senior (fourth) year, and complete the MPH by taking remaining credits as a full-time graduate student their fifth year and following summer. Graduate courses cannot be applied toward both BS and MPH credit and degree requirements. Admitted students must maintain timely degree progress to ensure that the BS degree is awarded no later than the end of the senior (fourth) year.

The application deadline for the Integrated BS/MPH-Environmental Health opportunity is the spring of the applicant's junior (third) year. Confer with the CBS advising office and the School of Public Health for application instructions.

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