



Twin Cities Campus

Epidemiology 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, Fax: 612-624-4498)

Email: sph-oasr@umn.edu

Website: <http://www.sph.umn.edu>

- Program Type: Master's
- Requirements for this program are current for Fall 2014
- Length of program in credits: 42 to 48
- 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.

Epidemiology is the science that describes quantitative trends in health and disease for populations, with application in the biological, environmental, behavioral, and social sciences. Epidemiologists generally collaborate with multidisciplinary teams of health professionals, such as physicians, laboratory scientists, exercise physiologists, nutritionists, statisticians, veterinarians, and behavioral scientists.

Epidemiologists analyze public health trends, design and implement studies, and interpret study results for policy and program development. Beyond investigation into the causes of disease, epidemiologists also develop intervention strategies to prevent disease and promote health. Epidemiologists work at both the individual and community levels to translate medical and laboratory data into population trends.

Students complete a 48-credit curriculum for the standard program. Many epidemiology and other health-related graduate-level courses are available as electives. These allow students to develop a specialty emphasis in either specific public health topics or methodological areas. The 48-credit curriculum includes 22 Epidemiology core course credits, 8 SPH core course credits, 8 credits of biostatistics, and elective credits. An alternative, 42-credit curriculum is offered for students who have completed M.D., D.D.S., D.V.M., or Ph.D. work in a related field. The 42-credit curriculum includes 18 Epidemiology core course credits, 8 SPH core course credits, 8 credits of biostatistics, and elective credits. The standard and alternate programs require a final examination.

Accreditation

This program is accredited by Council on Education for Public Health (CEPH).

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

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:

For more information visit www.sph.umn.edu

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

- GRE
 - General Test - Verbal Reasoning: 150
 - 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

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 18 to 22 major credits and 24 to 26 credits outside the major. There is no final exam. A capstone project is required.

Capstone Project: Culminating Experience

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 3.00 is required for students to remain in good standing.

Required Courses

Epidemiology Core Courses (18 credits)

- PUBH 6341 - Epidemiologic Methods I (3.0 cr)
- PUBH 6342 - Epidemiologic Methods II (3.0 cr)
- PUBH 6343 - Epidemiologic Methods III (4.0 cr)
- PUBH 6350 - Epidemiologic Methods III: Lab (1.0 cr)
- PUBH 7394 - Integrative Learning Experience: Epidemiology (1.0 - 6.0 cr)
- PUBH 7396 - Applied Practice Experience: Epidemiology (1.0 - 5.0 cr)
- PUBH 6325 - Data Processing with PC-SAS (1.0 cr)
 - or PUBH 6420 - Introduction to SAS Programming (1.0 cr)

"Epi of" Courses

- PUBH 6385 - Epidemiology and Control of Infectious Diseases (2.0 cr)
 - or PUBH 6386 - Cardiovascular Disease Epidemiology and Prevention (2.0 cr)
 - or PUBH 6387 - Cancer Epidemiology (2.0 cr)
 - or PUBH 6389 - Nutritional Epidemiology (2.0 cr)
 - or PUBH 6381 - Genetics in Public Health in the Age of Precision Medicine (2.0 cr)
 - or PUBH 6605 - Sexual, Reproductive, and Perinatal Public Health (2.0 cr)

Biostatistics Courses (8 credits)

- PUBH 6450 - Biostatistics I (4.0 cr)
- PUBH 6451 - Biostatistics II (4.0 cr)

Public Health Core (8 credits)

- PUBH 6020 - Fundamentals of Social and Behavioral Science (2.0 cr)
 - PUBH 6101 (*Inactive*) (2.0 cr)
 - or PUBH 6102 - Issues in Environmental Health (2.0 cr)
 - PUBH 6741 - Ethics in Public Health: Professional Practice and Policy (1.0 cr)
 - or PUBH 6742 - Ethics in Public Health: Research and Policy (1.0 cr)
 - PUBH 6751 - Principles of Management in Health Services Organizations (2.0 cr)

Basic Science Course (4 credits)

- Not required for students with a prior-earned doctorate in a health-related discipline. Nurses or other health professionals may be exempt.
- PUBH 6355 - Pathophysiology of Human Disease (4.0 cr)



Electives (8-10 credits)

- 10 credits required for the standard program.
- 8 credits required for the accelerated program.

Program Sub-plans

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

Global Health Interdisciplinary Concentration Area

The Global Health Interdisciplinary Concentration (GHIC) provides graduate students who are pursuing an M.P.H. with information necessary to define the constitution, cause, and consequences of health problems worldwide. The program offers a unique opportunity to explore the relationships between health, environment, politics, culture, and economic pressures in developed and developing nations.

Developing countries are currently undergoing profound demographic changes--changes that are accompanied by shifts in patterns of illness. In many of these nations, the major causes of morbidity and mortality are mutating from traditional infectious diseases to chronic, non-communicable maladies like cardiovascular diseases, cancer, and diabetes. As a result, there is increasing demand for qualified public health practitioners who can identify and help reduce the vast and varied global vectors for chronic disease.

Practical application of theory in the field is a major component of the GHIC. Students are encouraged to hone their expertise by pursuing an international field experience. The School of Public Health has established relationships with collaborative institutions abroad.

SPH graduate students must complete a formal program plan if they want the GHIC to appear on their transcripts. For more information, contact Carol Francis, interdisciplinary concentrations coordinator, at franc004@umn.edu or 612-624-6952.

Health Disparities Interdisciplinary Concentration Area

The Health Disparities Interdisciplinary Concentration (HDIC) addresses the unequal burden of health risks, morbidity, and mortality experienced by minority cultural and social groups in the U.S., as well as unequal quality of and access to health care. Achieving optimum health for all segments of our society is a central goal of Healthy People 2020, and a concern in Minnesota as well. Despite Minnesota's ranking as one of the nation's healthiest states, Minnesota has some of the largest gaps among cultural and social groups in health indicators. According to the Minnesota

Department of Health:

- Infant mortality rates among the American Indians and African Americans are two to three times higher than for the state as a whole.
- Among African American youth aged 15-24, firearm injury mortality rates are 15 times greater than the rates of all ages, races, and genders combined.
- Women from minority communities are less likely to receive sufficient prenatal care compared to other women.
- Death rates for African Americans and American Indians are two to three times that of the state as a whole. Rates of diabetes, hypertension, cancer, and HIV/AIDS are higher for many minority communities compared to the state as a whole.

SPH graduate students must complete a formal program plan if they want the HDIC to appear on their transcripts. For more information, contact Carol Francis, interdisciplinary concentrations coordinator, at franc004@umn.edu or 612-624-6952.

Course Group 0

Public Health Policy Interdisciplinary Concentration Area

PHPIC coursework provides a better understanding of the health care system as a whole and prevention policy. The challenging curriculum helps M.P.H. majors hone practical skills that are highly sought after in the public health and policy arenas. Students who pursue the concentration can choose courses that emphasize:

- Understanding community dynamics
- Developing advocacy skills for public health
- Analyzing legal and policy structures
- Evaluating and implementing policies and programs
- Influencing community health
- Motivating and educating stakeholders and decision-makers
- Using policy as prevention strategy
- Eliminating health disparities through policy

SPH graduate students must complete a formal program plan if they want the PHPIC to appear on their transcripts. For more information, contact Carol Francis, interdisciplinary concentrations coordinator, at franc004@umn.edu or 612-624-6952.