

PhD in MCH Epidemiology Course Requirements*

Students in the PhD in MCH Epidemiology are required to take a program that combines courses in Epidemiology with courses in Maternal and Child Health as well as courses in planning, assessment and analytic methods. Student dissertations **must be conducted in conjunction with a state or local public health agency**.

A limited amount of specially targeted federal funding is available for MCH Epidemiology students who are U.S. citizens or permanent residents.

Minimum credit hour requirement: 96 sh

SPH Core Courses (may be waived for students with a MPH and/or if taken previously)

EPID 403	Introduction to Epidemiology: Principles and Methods	3 sh
BSTT 400	Biostatistics I	4 sh
BSTT 401	Biostatistics II	4 sh

MCH Epidemiology Courses (apply to both CHS & EPID/BSTT students)

EPID 406	Epidemiologic Computing (<i>Prereq. for EPID 404</i>)	3 sh
EPID 404	Intermediate Epidemiologic Methods	4 sh
	<i>Choose <u>one</u> of the following courses:</i>	
EPID 410	Introduction to Infectious Disease Epidemiology	2 sh
EPID 411	Introduction to Chronic Disease Epidemiology	3 sh
	<i>Choose <u>one</u> of the following courses:</i>	
BSTT 440	Sampling & Estimation Methods Applied to Public Health	3 sh
PA 588	Survey Data Reduction and Analysis	2 sh
BSTT 505	Logistic Regression and Survival Analysis (<i>Prereq for EPID 501</i>)	2 sh
CHSC/EPID 549	Advanced Applied Methods in MCH	3 sh
CHSC 551	Foundations of Public Health Inquiry	3 sh
	<i>Choose <u>one</u> of the following two courses:</i>	
CHSC/EPID 545	Reproductive and Perinatal Health	3 sh
EPID 518	Epidemiology of Pediatric Diseases	3 sh
CHSC 548	Readings in Reproductive and Perinatal Epidemiology	2 sh
EPID 501	Advanced Quantitative Methods in Epidemiology	4 sh
	<i>Choose <u>one</u> of the following courses:</i>	
CHSC 543	MCH Policy and Advocacy	3 sh
CHSC 510	MCH Outcomes and Measurement	3 sh
CHSC 511	MCH Delivery Systems	3 sh
CHSC 512	Best Practices in MCH Programs	3 sh
	<i>Choose <u>one</u> of the following:</i>	
EPID 595	Epidemiology Research Seminar	1 sh
EPID 591	Current Epidemiologic Literature	2 sh

* Students may petition to change any of these requirements or replace any one of the required courses with another relevant course. In addition, any required course may be waived on the basis of prior education or experience. If students who waive courses still have 96 credits to graduate, they do not need to replace the waived courses. If students waive courses, but still need more courses to reach 96 credits, they can either take more research hours or methods courses. However, preliminary examinations may be taken before completing these replacement credits.

Electives – 4-6 sh[†] (plus 32 credits from MPH)

One or more of the following courses are strongly encouraged:

BSTT 513	Longitudinal Data Analysis	4 sh
CHSC 434	Introduction to Qualitative Methods in Public Health	3 sh
CHSC 534	Management Analysis of Qualitative Data	3 sh
CHSC 577	Survey Questionnaire Design	3 sh
CRJ 560	Quantitative Methods and Design	4 sh
ED 502	Essentials of Qualitative Inquiry in Education	4 sh
EPID 471	Population I	3 sh
EPID 510	Advanced Epidemiology of Infectious Diseases	2 sh
EPID 520	Genetic Epidemiology	2 sh
EPSY 594	Hierarchical Linear Modeling	4 sh
EPID 594	Social Epidemiology	2 sh
HPA 557	Measurement in Health Services Research	3 sh
HPA 564	Geographic Information System Application in Public Health	3 sh
NUSC 548	Methodological Issues for Cross-Cultural Research	3 sh
NUSC 594	Neighborhoods and Health	2 sh
PA 540	Research Methods for Public Administration	4 sh
PA 541	Advanced Data Analysis I	4 sh
PA 581	Cross-Cultural Survey Measurement	2 sh
PA 582	Survey Data Collection Methods	2 sh
PA 588	Survey Data Reduction and Analysis	2 sh
<i>Biological Sciences Requirement</i>		
Depending on clinical background, one or more of the following courses are strongly encouraged:		
HND 510	Nutrition, Physiologic Aspects	3 sh
HND 520	Maternal Nutrition & Perinatal Development	3 sh
HND 522	Adv. In Pediatric Nutrition	2 sh
NuMC 507	Scientific Basis for Women's Health & Perinatal Nursing I	2 sh
NuMC 508	Scientific Basis for Women's Health & Perinatal Nursing II	2 sh
NuSc 214	Clinical Pathophysiology I (<i>Doesn't qualify for grad. course credit</i>)	N/A
NuSc 216	Clinical Pathophysiology II (<i>Doesn't qualify for grad. course credit</i>)	N/A

PhD Research - 32 sh[‡]

IPHS 599: Research in Public Health Sciences

[†] Must include at least one course (2-3sh) in biological sciences (depending on student's clinical background).

[‡] The MCH-EPI prelim will include an in-class EPI exam based on EPID 403 and EPID 404 (EPID 401 for students who entered prior to fall 2004), a 10 day take home analytic project based on EPID/CHSC 549 and EPID 501, and six to nine hours of content/methods questions to be determined by the preliminary exam committee.