

PhD in MCH Epidemiology Course Requirements

Fall 2011

*Students in the PhD in MCH Epidemiology are required to take courses in both Epidemiology and Maternal and Child Health, along with courses from other disciplines that focus on the substantive, analytic, and technical aspects of the public health planning cycle.

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

Overview of Program Requirements

- A minimum of 96 semester hours of credit, including up to 32 credits transferred from a Masters degree and 32 credits for dissertation research. Students who waive courses must still accumulate 96 credits to graduate, but the total may be reached with additional research hours or methods courses;
- A written and oral preliminary exam, including a 4 hour in-class methods exam, a 10 day take home data analysis, and either in-class or take home questions covering two substantive areas within MCH as determined by the student’s examination committee. Ideally, the preliminary exam is taken after all coursework has been completed, but it may be taken earlier with consent of the academic advisor;
- A dissertation which must be conducted in conjunction with a state or local public health agency or deemed relevant to the work of such agencies.
- Leadership coaching offered by the MCH Training Program over one semester

A. Masters Level Courses

**REQUIRED or WAIVED Based on Advisor Discretion
According to the Student’s Prior Training**

BSTT 400*	Biostatistics I	4 sh
BSTT 401*	Biostatistics II	4 sh
EPID 403*	Introduction to Epidemiology: Principles and Methods	3 sh
EPID 406	Epidemiologic Computing (<i>Prereq. for EPID 404</i>)	3 sh
EPID 404	Intermediate Epidemiologic Methods	4 sh
CHSC 400*	Public Health Concepts and Practice	3 sh
CHSC 446*	Research Methods	3 sh
CHSC 480*	Health Education and Health Promotion	3 sh
<i>Choose one:</i>		
CHSC 510	MCH Outcomes and Measurement	3 sh
CHSC 511±	MCH Delivery Systems	3 sh
CHSC 594	An Introduction to Applied Health Systems for Families	1 sh
CHSC 512	Best Practices in MCH Programs	3 sh
CHSC 543	MCH Policy and Advocacy	3 sh
<i>Choose one:</i>		
EPID 409	The Epidemiology of HIV/AIDS	2 sh
EPID 410	Epidemiology of Infectious Diseases	2 sh
EPID 411	Epidemiology of Chronic Diseases	3 sh
EPID 594	Surveillance	3 sh

B. Doctoral Level Required Courses Typically Not Waived

With consent of the advisor, a student may replace a required course with a relevant substitute (see notes in the Tier 1 electives).

BSTT 505++	Logistic Regression & Survival Analysis (<i>Prereq for EPID 501</i>)	2 sh
EPID 501++	Advanced Quantitative Methods in Epidemiology	4 sh
EPID 518	Epidemiology of Pediatric Diseases	3 sh
CHSC/EPID 548+	Readings in Reproductive and Perinatal Epidemiology (includes independent study)	2 sh + 1 sh
CHSC/EPID 549++	Advanced Applied Methods in MCH Epidemiology	3 sh
CHSC 550**	Advanced Introduction to Community Health Sciences	3 sh
CHSC 551	Foundations of Public Health Inquiry	3 sh
BSTT 507+	Sampling & Estimation Methods Applied to Public Health	3 sh
BSTT 537++	Longitudinal Data Analysis	4 sh
CHSC 595***	CHSC Doctoral Seminar	1 sh

C. Electives

Tier 1 – Highly Recommended

BSTT 594++	Statistical Methods for Spatial Data in Public Health	3 sh
CHSC 434	Introduction to Qualitative Methods in Public Health	3 sh
CHSC 534++	Management and Analysis of Qualitative Data	3 sh
CSHC 543	MCH Policy and Advocacy	3 sh
CSHC 545	Reproductive and Perinatal Health	3 sh
CHSC 577+	Survey Questionnaire Design	3 sh
EPID / EOHS 571	Injury Epidemiology and Prevention	3 sh
EPID 594	Sexually Transmitted Infections	3 sh
EPID 594+	Social Epidemiology	2 sh
EPSY 512++	Hierarchical Linear Models <i>may replace bstt 537 with advisor consent</i>	4 sh
HPA 557++	Measurement in Health Services Research	3 sh
HPA 564+	Geographic Information System Application in Public Health	3 sh
PA 582+	Survey Data Collection Methods	2 sh
PA 588++	Survey Data Reduction and Analysis <i>may replace bstt 507 with advisor consent</i>	2 sh

D. Electives

Tier 2 – Suggested

CLJ 560+	Quantitative Methods and Design	4 sh
ED 502+	Essentials of Qualitative Inquiry in Education	4 sh
EPID 471	Population	4 sh
EPID 510	Advanced Epidemiology of Infectious Diseases	2 sh
EPID 520	Genetics in Epidemiology	2 sh
NUEL 563+	Neighborhoods and Health	2 sh
PA 578	Surveys, Public Opinion, and Public Policy	4 sh
PA 581+	Cross-Cultural Survey Research Methods	2 sh
PSCH 538+	Thinking and Acting Ecologically in Community Research and Intervention	3 sh
UPP 508+	Geographic Information Systems for Planning	4 sh
UPP 543	Planning for Healthy Cities	4 sh

E. Electives

Biological Sciences Requirement

Depending on clinical background, one or more of the following courses are strongly encouraged

HN510	Physiological Aspects of Nutrition	3 sh
HN 594	Advanced Topics in Community Nutrition	3 sh
NUSP 548	Biological Basis for Women's Health and Perinatal Nursing I	2 sh
NUSP 549	Biological Basis for Women's Health and Perinatal Nursing	1-2 sh

F. Other Requirements

	HIPPA Research 101	0 sh
	Investigator Training 101	0 sh
IPHS 599	PhD Dissertation Research	32 sh
	Leadership coaching offered through the MCH Training Program over one semester	0 sh

Summary of Credits

	Masters Level Courses if needed	12-13 sh
	Doctoral Level Required Courses	29 sh
	Electives	12-18 sh
IPHS 599	PhD Dissertation Research	32 sh
	Credits Transferred from an appropriate Master's degree	32 sh
	Leadership coaching offered through the MCH Training Program over one semester	0 sh

±Students taking CHSC 511 are required to take an additional one credit field seminar (CHSC 594).

*This course or an equivalent course from a master's program is required for the PhD in Community Health Sciences, but is waived for PhD in MCHEPI.

** This course is required for the PhD in CHS but is waived for the PhD in MCHEPI.

***This course is only required for CHS MCHEPI students.

+ This course can be used to meet the Advanced Research Methods Course Requirement for PhD in CHS. (6 credits required)

++ This course can be used to meet the Advanced Analytic Methods Course Requirement for PhD in CHS. (6 credits required)