



2016-2017 Curriculum Guide for Master of Science degree program with a specialization in EPIDEMIOLOGY

The Master of Science (MS) degree is intended for students whose interests in epidemiology are academically oriented rather than directed toward professional practice. MS graduates will have the knowledge and skills to participate in basic and applied research and will have the foundation to enter into a research-oriented career. It is also a natural entry point for students who are interested in pursuing a PhD degree. Because of this orientation, the emphasis in the MS degree program is on building a strong foundation in a particular specialty field, along with the research methods important in that field. To reflect this research and academic orientation, the MS degree ordinarily requires the preparation of a thesis, though it is available under a non-thesis option at the discretion of the division or specialization.

Students admitted to the MS degree program are assigned a faculty advisor who will provide guidance throughout the program. This document serves as a resource to be used by the student and the advisor in planning a program with a specialization in Epidemiology (EPI), but is not inclusive of all important degree, college, and university requirements. All students are expected to be familiar with the College of Public Health (CPH) *Graduate Student Handbook* (available at <http://cph.osu.edu/students/graduate/handbooks>) and with the *Graduate School Handbook* (available at <http://www.gradsch.ohio-state.edu/>).

PROGRAM OF STUDY

The MS-EPI curriculum consists of a minimum of 48 credits organized into three curricular domains:

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| 1. Courses required for a specialization in Epidemiology | 35-39 credits |
| 2. Elective courses approved for the specialization | 6-10 credits |
| 3. Thesis | 3 credits |

Required Courses in the Specialization (35-39 credits)

PUBHBIO 6210	Design & Analysis of Studies in the Health Sciences I	3 credits
PUBHBIO 6211	Design & Analysis of Studies in the Health Sciences II	3 credits
PUBHBIO 6212	Regression Methods for the Health Sciences	3 credits
PUBHBIO 6270	Introduction to SAS for Public Health Students	2 credits
PUBHEPI 6411 [^]	Biological Basis of Public Health	3 credits
PUBHEPI 6430	Epidemiology I & Lab	4 credits
PUBHEPI 6431	Design & Implementation of Health Surveys	3 credits
PUBHEPI 7410	Epidemiology II & Lab	4 credits
PUBHEPI 7430	Epidemiology III	4 credits
PUBHEPI 7431	Epidemiological Methods	3 credits

Select two of the following four courses:

PUBHBIO 7220	Applied Logistic Regression	3 credits
[‡] PUBHBIO 7230	Longitudinal Data Analysis	3 credits
PUBHBIO 7235	Applied Survival Analysis	3 credits
STAT 6450	Linear Regression	4 credits

[^]Required for students who do not have an MD, DVM, or equivalent clinical degree.

*****Questions regarding the student's program of study should be directed to the advisor*****

Electives (6-10 credits)

PUBHEPI 5438 Cardiovascular Disease Epidemiology	3 credits	PUBHEPI 6441 Women's Health Issues	3 credits
*PUBHEPI 6415 Nutrition in Public Health	3 credits	*PUBHEPI 7411 Environmental Epidemiology	3 credits
PUBHEPI 6432 Injury Epidemiology	2 credits	PUBHEPI 7412 Principles & Procedures for Human Clinical Trials	3 credits
*PUBHEPI 6433 Psychiatric Epidemiology	2 credits	*PUBHEPI 7413 Molecular Epidemiology of Cancer	3 credits
*PUBHEPI 6434 Tuberculosis: a Public Health Issue	2 credits	PUBHEPI 8411 Epidemiology of Obesity	3 credits
*PUBHEPI 6435 Chronic Disease Epidemiology	3 credits	*PUBHEPI 8412 Group-Randomized Trials	3 credits
PUBHEPI 6436 Infectious Disease Epidemiology	3 credits	PUBHEPI 8413 Molecular Epidemiology of Infectious Disease	3 credits
PUBHEPI 6437 Cancer Epidemiology	3 credits		
*PUBHEPI 6439 Genetic Epidemiology	3 credits		
*PUBHEPI 6440 Reproductive and Perinatal Epidemiology	3 credits		

*Not offered 2016/2017

Thesis

PUBHLTH 7999	Master's Thesis Research in Public Health	3 credits
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Sample Curriculum Plan for the Master of Science in Epidemiology**

(This is one option. Other options that are consistent with curriculum guide are acceptable. Students are advised to consult their advisor)

Year 1 Autumn	PUBHEPI 6430	Epidemiology I & Lab	4 credits	AU
	PUBHEPI 6411	Biological Basis of Public Health	3 credits	AU
	PUBHBIO 6210	Design & Analysis of Studies in the Health Sciences I	3 credits	AU
	PUBHBIO 6270	Introduction to SAS for Public Health Students	2 credits	AU
Year 1 Spring	PUBHEPI 6431	Design & Implementation of Health Surveys	3 credits	SP
	PUBHEPI 7410	Epidemiology II & Lab	4 credits	SP
	PUBHBIO 6211	Design & Analysis of Studies in the Health Sciences II	3 credits	SP
	ELECTIVES			
Year 2 Autumn	PUBHEPI 7430	Epidemiology III	4 credits	AU
	PUBHEPI 7431	Epidemiological Methods	3 credits	AU
	PUBHBIO 6212	Regression Methods for the Health Sciences	3 credits	SU, AU
	ELECTIVES			
Year 2 Spring	PUBHLTH 7999	Master's Thesis Research in Public Health	3 credits	

**The sample plan does not include a specific semester in which elective courses or advanced biostatistics courses can be taken as they are offered various times during the year

Grade Policy:

In addition to the general Graduate School requirements of a cumulative grade point average of 3.0 or higher, students must meet specific college policies regarding grades in Core and Specialization courses. Students should familiarize themselves with Section 11 of the College of Public Health Graduate Student Handbook.

Office of Academic Programs and Student Services (OAPSS)

OAPSS staff are available to provide assistance with College, Graduate School and University policies and procedures. Students can make an appointment with a staff member in OAPSS by calling (614) 292-8350. OAPSS address: 100 Cunz Hall/1841 Neil Ave/Columbus, Ohio/ 43210/cph.osu.edu

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