

**University of South Florida, College of Public Health  
Department of Global Health**

**MPH: Global Communicable Diseases**

The Global Communicable diseases (GCD) program provides an opportunity for science-oriented students with an interest in communicable diseases to receive specialized training in the recognition, identification, diagnosis, surveillance, control, and prevention of public health problems related to communicable diseases throughout the world, with particular emphasis on the problems of Florida and underdeveloped nations. Several course offerings and areas of emphasis focusing on infection control have been added to this program to allow public health practitioners to expand their knowledge of infection control practices and procedures, particularly in hospital settings. Preference for admission is given to students with a background or demonstrated skills in the biological sciences. Prerequisites for some of these courses may be required.

Competencies: In addition to the **overall Master of Public Health (MPH)**, graduates with a concentration *in Global Communicable Diseases* will:

1. Interpret the natural history of disease-causing parasites, bacteria, viruses, fungi, and other organisms of major public health concern, as well as the disease processes and clinical manifestations caused by those infectious organisms;
2. Identify the appropriate diagnosis, epidemiology, surveillance, control, treatment and prevention of communicable diseases;
3. Describe the natural human defenses, the appropriate use of diagnostic techniques and serological surveillance, and the role of preventive interventions and treatments such as vaccines and antibiotics against communicable diseases;
4. Identify the cultural, social, and economic factors that contribute to the incidence and prevalence, as well as the transmission, control, treatment, and prevention of communicable disease;
5. Identify the public health conditions and problems related to the surveillance and control of communicable diseases in developing countries;
6. Design programs for the surveillance and control of communicable diseases;
7. Apply principles of immunology, molecular biology and other essential biological sciences disciplines in the laboratory settings for research and the diagnosis, surveillance, control, treatment, and prevention of communicable diseases; and
8. Prepare and present information about communicable diseases to other members of health-related professions and to members of the public in a professional and effective manner.
9. Explain factors such as biology, ecology and dynamics of arthropod vector populations that affect transmission of specific communicable diseases such as malaria and dengue
10. Recognize the roles of the laboratory in the Public Health system and have a thorough understanding of the complexity and inter-connectivity of all levels of laboratory services

Association between courses and the competencies for  
MPH with a Global Communicable Diseases Concentration

Courses	Competencies										
	1	2	3	4	5	6	7	8	9	10	
<b>Required concentration courses (18 credits)</b>											
PHC 6251 Disease Surveillance and Monitoring		√			√	√					
PHC 6510 Emerging Infectious Diseases	√	√	√	√	√		√	√	√	√	
PHC 6560 The Public Health Laboratory System		√	√			√	√	√		√	
PHC 6511 Public Health Immunology		√	√				√	√			
PHC 6512 Vectors of Human Diseases	√	√	√					√	√	√	
PHC 6513 Public Health Parasitology	√	√		√			√	√	√		
<b>Suggested Electives (select 2; 6 credits)</b>											
PHC 6517 Infectious Disease Prevention Strategies		√	√	√	√	√		√			
PHC 6314 Infection Control Program Design						√		√			
PHC 6514 Infectious Disease Control in Developing Countries	√	√	√			√			√		
PHC 6562 Microbiology for Healthcare workers	√	√	√				√	√		√	
PHC 6934 Public Health Laboratory Practicum		√	√				√			√	
PHC 6934- Virology	√	√	√	√		√	√	√	√	√	
PHC6934-Introduction to Quantitative Laboratory Research Methods		√					√	√		√	
PHC6934-Vaccinology	√	√	√	√			√	√			
PHC7931-Current Topics in GH Infectious Diseases	√	√	√	√	√		√	√	√	√	

College of Public Health - Program Checksheet					
					For students starting Fall 2010
Name: _____			Dept:	GLO	
Advisor: _____			Degree:	MPH	
Semester/Year Accepted: _____			Track:	Global Comm. Diseases	
Any grade below a C (C- to F) are required to be retaken. The grade will be included in the student's GPA.					
<b>College Core Courses</b>			<b>Total Needed</b>	<b>18</b>	<b>Grade</b>
PHC	6000	Epidemiology		3	Fall 1
PHC	6050	Biostatistics I		3	Fall 1
PHC	6102	Principles of Health Policy and Management		3	Spring 1
PHC	6357	Environmental and Occupational Health		3	Spring 1
PHC	6410	Social and Behavioral Sciences Applied to Health		3	Summer 1
PHC	6936	Capstone Public Health		3	fall 2
<b>Required Concentration Area</b>			<b>Total Needed</b>	<b>18</b>	<b>Suggested Sem.</b>
PHC	6251	Disease Surveillance and Monitoring		3	Fall 1
PHC	6510	Emerging Infectious Diseases		3	Fall 2
PHC	6560	The Public Health Laboratory System		3	Fall 2
PHC	6511	Public Health Immunology		3	Spring 1
PHC	6512	Vectors of Human Diseases		3	Spring 1
PHC	6513	Public Health Parasitology		3	Spring 1
<b>Electives (Selected examples of courses)</b>			<b>Total Needed</b>	<b>6</b>	
PHC	6517	Infectious Disease Prevention Strategies		3	Spring 2
PHC	6314	Infection Control Program Design		3	Summer 1
PHC	6514	Infectious Disease Control in Developing Countries		3	Summer 1
PHC	6562	Microbiology for Healthcare workers		3	Fall 2
PHC	6934	Public Health Laboratory Practicum		3	Summer 2
<b>Culminating Experiences</b>			<b>Total Needed</b>		
PHC	6945	Supervised Field Experience		3	Spring 2
PHC	6977	Special Project		3	Spring 2
			<b>Total GPA Hours:</b>	<b>48</b>	<b>GPA:</b>
			<b>Total Hours attempted:</b>		
Spring 2006	Minimum 45 credit hours required (including domestic field experience)				