

1. Identify and critically appraise the social, cultural, economic and other determinants of public health problems as they apply particularly to disadvantaged populations and/or populations in low and middle income countries

220.605	P	Doc Sem: Int'l Hlth I	X	Course Work/Exams
220.606	P	Doc Sem: Int'l Hlth II	X	Seminars
221.646	P	Hlth Sys in LMIC	X	Written Comprehensive/Qualifying Exam
221.860	R	Hlth Sys Prog Sem	X	Department Preliminary Orals
221.861	P	Global Dis Epi & Cntrl Prog Doc Sem	X	School-wide Preliminary Orals
			X	Doctoral Research & Thesis
			X	Preparing a scholarly project proposal
			X	Teaching (TA, Course Lecturer, Course Instructor)
			X	Final Defense
			X	Public Thesis Presentation

2. Assess methods and tools appropriate to health systems research disciplines, including health policy, health planning, financing and management; monitoring and evaluation, and institution building and community development.

140.621	P	Stats Methds in PH I	X	Course Work/Exams
140.622	P	Stats Methds in PH II		Seminars
140.623	P	Stats Methds in PH III	X	Written Comprehensive/Qualifying Exam
140.624	R	Stats Methds in PH IV	X	Department Preliminary Orals
140.651	P	Methds in Biostats I	X	School-wide Preliminary Orals
140.652	P	Methds in Biostats II	X	Doctoral Research & Thesis
140.653	R	Methds in Biostats III	X	Preparing a scholarly project proposal
140.654	R	Methds in Biostats IV	X	Teaching (TA, Course Lecturer, Course Instructor)
221.620	P	Summary Meas of Pop	X	Final Defense
221.638	R	Hlth Sys Rsrch & Eval Dev Cntries	X	Public Thesis Presentation
221.646	P	Hlth Sys in LMIC		
340.751	R	Epi Methds 1		
340.752	P	Epi Methds 2		
340.753	P	Epi Methds 3		

Primary—introduces knowledge and skills necessary for achieving the competency **R: Reinforcing**—reinforces knowledge and skills necessary for achieving the competency 1

3. Evaluate and critique the relevant literature on a health systems research topic and frame a research question in terms of study goals and specific aims.

220.605	P	Hist of Int'l Hlth & Dev	X	Course Work/Exams
220.606	P	Continuing Ed for Hlth Workers		Seminars
221.820	R	Thesis Rsrch: Hlth Sys		Written Comprehensive/Qualifying Exam
221.840	R	SS/R Hlth Sys	X	Department Preliminary Orals
			X	School-wide Preliminary Orals
			X	Doctoral Research & Thesis
			X	Preparing a scholarly project proposal
				Teaching (TA, Course Lecturer, Course Instructor)
			X	Final Defense
			X	Public Thesis Presentation

4. Appraise and apply scientifically sound and appropriate methods and tools to design a research study including a conceptual/theoretical framework, study instrument, sampling design, and plan for data analysis.

221.820	P	Thesis Rsrch: Hlth Sys		Course Work/Exams
221.840	R	SS/R Hlth Sys	X	Seminars
221.861	P	Doc Sem: Hlth Sys		Written Comprehensive/Qualifying Exam
			X	Department Preliminary Orals
			X	School-wide Preliminary Orals
			X	Doctoral Research & Thesis
			X	Preparing a scholarly project proposal
				Teaching (TA, Course Lecturer, Course Instructor)
			X	Final Defense
			X	Public Thesis Presentation

5. Implement and manage a research project, monitor progress of the study and the quality of data collected.

221.602	P	Apps in Mngng Hlth Orgs in LMICs	X	Course Work/Exams
221.820	P	Thesis Rsrch: Hlth Sys	X	Seminars
221.840	R	SS/R Hlth Sys		Written Comprehensive/Qualifying Exam
				Department Preliminary Orals
				School-wide Preliminary Orals
			X	Doctoral Research & Thesis
			X	Preparing a scholarly project proposal
				Teaching (TA, Course Lecturer, Course Instructor)
				Final Defense
				Public Thesis Presentation

6. Prepare applications to an IRB for ethical approval considering ethical issues involved in research in resource poor settings and argue for a specific approach to addressing these ethical issues.

221.820	R	Thesis Rsrch: Hlth Sys	X	Course Work/Exams
221.840	R	SS/R Hlth Sys	X	Seminars
306.665	P	Rsrch Ethics & Integrity		Written Comprehensive/Qualifying Exam
550.600	P	Responsible Conduct of Rsrch	X	Department Preliminary Orals
550.860	P	Academic & Rsrch Ethics at JHSPH	X	School-wide Preliminary Orals
550.865	P	PH Perspectives on Rsrch	X	Doctoral Research & Thesis
			X	Preparing a scholarly project proposal
				Teaching (TA, Course Lecturer, Course Instructor)
				Final Defense
				Public Thesis Presentation

7. Produce data analysis and provide a reasoned interpretation of the results.

140.621	P	Stats Methds in PH I	X	Course Work/Exams
140.622	P	Stats Methds in PH II	X	Seminars
140.623	P	Stats Methds in PH III	X	Written Comprehensive/Qualifying Exam
140.624	R	Stats Methds in PH IV	X	Department Preliminary Orals
140.651	P	Methds in Biostats I	X	School-wide Preliminary Orals
140.652	P	Methds in Biostats II	X	Doctoral Research & Thesis
140.653	P	Methds in Biostats III	X	Preparing a scholarly project proposal
140.654	R	Methds in Biostats IV		Teaching (TA, Course Lecturer, Course Instructor)
221.820	R	Thesis Rsrch: Hlth Sys	X	Final Defense
221.840	R	SS/R Hlth Sys	X	Public Thesis Presentation
340.751	P	Epi Methds 1		
340.752	P	Epi Methds 2		
340.753	P	Epi Methds 3		

8. Place research findings in the context of current knowledge, identify limitations of the research, specify further areas for research, and analyze policy implications and public health significance.

221.820	P	Thesis Rsrch: Hlth Sys		Course Work/Exams
221.840	P	SS/R Hlth Sys		Seminars
				Written Comprehensive/Qualifying Exam
			X	Department Preliminary Orals
			X	School-wide Preliminary Orals
			X	Doctoral Research & Thesis
			X	Preparing a scholarly project proposal
				Teaching (TA, Course Lecturer, Course Instructor)
			X	Final Defense
			X	Public Thesis Presentation

9. Communicate scientific findings through written and oral methods to scientific audiences and peers.

221.820 P	Thesis Rsrch: Hlth Sys	Course Work/Exams
221.840 P	SS/R Hlth Sys	Seminars
		Written Comprehensive/Qualifying Exam
		Department Preliminary Orals
		School-wide Preliminary Orals
		X Doctoral Research & Thesis
		X Preparing a scholarly project proposal
		Teaching (TA, Course Lecturer, Course Instructor)
		X Final Defense
		X Public Thesis Presentation

10. Perform a leadership role in health systems (e.g. research coordinator, program manager, policy advisor) to address health problems in disadvantaged populations in low and middle income countries.

221.602 P	Apps in Mngng Hlth Orgs in LMICs	X Course Work/Exams
221.820 P	Thesis Rsrch: Hlth Sys	Seminars
221.840 P	SS/R Hlth Sys	Written Comprehensive/Qualifying Exam
		Department Preliminary Orals
		School-wide Preliminary Orals
		X Doctoral Research & Thesis
		X Preparing a scholarly project proposal
		Teaching (TA, Course Lecturer, Course Instructor)
		X Final Defense
		X Public Thesis Presentation