

Competencies	Courses		Learning Opportunities and Assessments	
<p>1. Describe national and international public health problems and associated risk factors.</p>	<a href="#">220.601</a> P	<a href="#">340.640</a> P	X	Course Work/Exams
	<a href="#">330.603</a> P	<a href="#">340.641</a> P	X	Seminars
	<a href="#">340.731</a> P	<a href="#">340.644</a> P	X	Journal Clubs
	<a href="#">340.732</a> P	<a href="#">340.646</a> P		Written Comprehensive/Qualifying Exam
	<a href="#">340.607</a> P	<a href="#">340.651</a> P	X	Department Preliminary Orals
	<a href="#">340.612</a> P	<a href="#">340.654</a> P	X	School-wide Preliminary Orals
	<a href="#">340.616</a> P	<a href="#">340.666</a> P		Doctoral Research & Thesis
	<a href="#">340.624</a> P	<a href="#">340.680</a> P		Non-thesis Research
	<a href="#">340.627</a> P	<a href="#">340.684</a> P		Teaching (TA, Course Lecturer, Course Instructor)
	<a href="#">340.639</a> P	<a href="#">340.690</a> P		Final Defense
		<a href="#">340.860</a> R		Public Thesis Presentation
		<a href="#">380.664</a> P		
	<p>2. Describe the role of epidemiology in the development of public policy and in advancing the health of populations.</p>	<a href="#">220.601</a> P	<a href="#">340.640</a> P	X
<a href="#">330.603</a> P		<a href="#">340.641</a> P	X	Seminars
<a href="#">340.607</a> P		<a href="#">340.644</a> P	X	Journal Clubs
<a href="#">340.612</a> P		<a href="#">340.646</a> P		Written Comprehensive/Qualifying Exam
<a href="#">340.616</a> P		<a href="#">340.651</a> P	X	Department Preliminary Orals
<a href="#">340.624</a> P		<a href="#">340.654</a> P	X	School-wide Preliminary Orals
<a href="#">340.627</a> P		<a href="#">340.666</a> P		Doctoral Research & Thesis
<a href="#">340.639</a> P		<a href="#">340.680</a> P	X	Non-thesis Research
		<a href="#">340.684</a> P		Teaching (TA, Course Lecturer, Course Instructor)
		<a href="#">340.690</a> P		Final Defense
		<a href="#">340.769</a> P		Public Thesis Presentation
		<a href="#">340.770</a> P		
		<a href="#">340.860</a> R		
	<a href="#">380.664</a> P			

Competencies	Courses		Learning Opportunities and Assessments	
3. Interpret and critique epidemiological studies.		<a href="#">340.645</a> P	X	Course Work/Exams
		<a href="#">340.715</a> P	X	Seminars
		<a href="#">340.751</a> P	X	Journal Clubs
		<a href="#">340.752</a> P	X	Written Comprehensive/Qualifying Exam
		<a href="#">340.753</a> P	X	Department Preliminary Orals
		<a href="#">340.754</a> P	X	School-wide Preliminary Orals
		<a href="#">340.820</a> R	X	Doctoral Research & Thesis
		<a href="#">340.860</a> R	X	Non-thesis Research
		<a href="#">340.863</a> P	X	Teaching (TA, Course Lecturer, Course Instructor)
			X	Final Defense
			X	Public Thesis Presentation
		4. Identify public health problems through review and synthesis of the published literature and develop research questions and hypotheses.		<a href="#">221.637</a> P
<a href="#">340.606</a> P	X			Seminars
<a href="#">340.715</a> P	X			Journal Clubs
<a href="#">340.751</a> P				Written Comprehensive/Qualifying Exam
<a href="#">340.752</a> P	X			Department Preliminary Orals
<a href="#">340.753</a> P	X			School-wide Preliminary Orals
<a href="#">340.754</a> P	X			Doctoral Research & Thesis
<a href="#">340.769</a> P	X			Non-thesis Research
<a href="#">340.820</a> R				Teaching (TA, Course Lecturer, Course Instructor)
<a href="#">340.863</a> P	X			Final Defense
				Public Thesis Presentation

Competencies	Courses		Learning Opportunities and Assessments	
<p>5. Design a research study by formulating specific aims and hypotheses, study design, target populations, sample size and power, potential sources of bias and variance, strategies to control bias and reduce variance, and write a research proposal.</p>	<a href="#">140.621</a> P	<a href="#">340.717</a> P	X	Course Work/Exams
	<a href="#">140.622</a> P	<a href="#">340.751</a> P	X	Seminars
	<a href="#">140.623</a> P	<a href="#">340.752</a> P	X	Journal Clubs
	<a href="#">140.624</a> P	<a href="#">340.753</a> P	X	Written Comprehensive/Qualifying Exam
	<a href="#">140.651</a> P	<a href="#">340.754</a> P	X	Department Preliminary Orals
	<a href="#">140.652</a> P	<a href="#">340.820</a> R	X	School-wide Preliminary Orals
	<a href="#">140.653</a> P	<a href="#">340.840</a> R	X	Doctoral Research & Thesis
	<a href="#">140.654</a> P	<a href="#">340.863</a> P	X	Non-thesis Research
	<a href="#">340.620</a> P			Teaching (TA, Course Lecturer, Course Instructor)
	<a href="#">340.645</a> P			X Final Defense
	<a href="#">340.715</a> P			X Public Thesis Presentation
	<p>6. Conduct epidemiological research by determining operational needs, developing and validating data collection instruments, addressing ethical issues, preparing an application to an Institutional Review Board, and drafting a study protocol.</p>		<a href="#">340.645</a> P	X
		<a href="#">340.648</a> P		Seminars
		<a href="#">340.660</a> P		Journal Clubs
		<a href="#">340.715</a> P		Written Comprehensive/Qualifying Exam
		<a href="#">340.717</a> P	X	Department Preliminary Orals
		<a href="#">340.820</a> R	X	School-wide Preliminary Orals
		<a href="#">340.840</a> R	X	Doctoral Research & Thesis
		<a href="#">340.863</a> P	X	Non-thesis Research
		<a href="#">550.600</a> P		Teaching (TA, Course Lecturer, Course Instructor)
		<a href="#">550.860</a> P	X	Final Defense
				X Public Thesis Presentation

Competencies	Courses		Learning Opportunities and Assessments	
<p>7. Manage data and ensure quality assurance during an epidemiologic study.</p>		<a href="#">340.633</a> P	X	Course Work/Exams
		<a href="#">340.645</a> P		Seminars
		<a href="#">340.648</a> P		Journal Clubs
		<a href="#">340.660</a> P		Written Comprehensive/Qualifying Exam
		<a href="#">340.717</a> P	X	Department Preliminary Orals
		<a href="#">340.752</a> P	X	School-wide Preliminary Orals
		<a href="#">340.820</a> R	X	Doctoral Research & Thesis
		<a href="#">340.840</a> R	X	Non-thesis Research
				Teaching (TA, Course Lecturer, Course Instructor)
			X	Final Defense
			X	Public Thesis Presentation
		<p>8. Analyze data using descriptive analyses, fundamental quantitative measures, univariate and multivariate statistical methods, and have expertise with statistical software packages.</p>	<a href="#">140.621</a> P	<a href="#">340.677</a> P
<a href="#">140.622</a> P	<a href="#">340.682</a> P			Seminars
<a href="#">140.623</a> P	<a href="#">340.701</a> P			Journal Clubs
<a href="#">140.624</a> P	<a href="#">340.728</a> P		X	Written Comprehensive/Qualifying Exam
<a href="#">140.632</a> P	<a href="#">340.733</a> P		X	Department Preliminary Orals
<a href="#">140.651</a> P	<a href="#">340.734</a> P		X	School-wide Preliminary Orals
<a href="#">140.652</a> P	<a href="#">340.751</a> P		X	Doctoral Research & Thesis
<a href="#">140.653</a> P	<a href="#">340.752</a> P		X	Non-thesis Research
<a href="#">140.654</a> P	<a href="#">340.753</a> P			Teaching (TA, Course Lecturer, Course Instructor)
<a href="#">340.600</a> P	<a href="#">340.754</a> P		X	Final Defense
<a href="#">340.609</a> P	<a href="#">340.769</a> P			Public Thesis Presentation
<a href="#">340.611</a> P	<a href="#">340.820</a> R			
<a href="#">340.653</a> P	<a href="#">340.840</a> R			

Competencies	Courses		Learning Opportunities and Assessments	
<p>9. Interpret epidemiologic data and make valid inferences from study findings.</p>	<a href="#">140.621</a> P	<a href="#">340.751</a> P	X	Course Work/Exams
	<a href="#">140.622</a> P	<a href="#">340.752</a> P	X	Seminars
	<a href="#">140.623</a> P	<a href="#">340.753</a> P	X	Journal Clubs
	<a href="#">140.624</a> P	<a href="#">340.754</a> P	X	Written Comprehensive/Qualifying Exam
	<a href="#">140.632</a> P	<a href="#">340.770</a> P	X	Department Preliminary Orals
	<a href="#">140.651</a> P	<a href="#">340.820</a> R	X	School-wide Preliminary Orals
	<a href="#">140.652</a> P	<a href="#">340.840</a> R	X	Doctoral Research & Thesis
	<a href="#">140.653</a> P	<a href="#">340.863</a> P	X	Non-thesis Research
	<a href="#">140.654</a> P		X	Teaching (TA, Course Lecturer, Course Instructor)
			X	Final Defense
			X	Public Thesis Presentation
<p>10. Communicate effectively in oral and written formats with students, professionals and the public on issues related to epidemiology and public health</p>		<a href="#">340.769</a> R	X	Course Work/Exams
		<a href="#">340.863</a> P	X	Seminars
			X	Journal Clubs
			X	Written Comprehensive/Qualifying Exam
			X	Department Preliminary Orals
			X	School-wide Preliminary Orals
			X	Doctoral Research & Thesis
			X	Non-thesis Research
			X	Teaching (TA, Course Lecturer, Course Instructor)
			X	Final Defense
			X	Public Thesis Presentation

Competencies	Courses		Learning Opportunities and Assessments	
<p>11. Provide epidemiologic critique and advice through advising students and professionals on epidemiologic concepts and methods and conducting peer review activities</p>		<a href="#">340.715</a> P	X	Course Work/Exams
			X	Seminars
			X	Journal Clubs
				Written Comprehensive/Qualifying Exam
				Department Preliminary Orals
				School-wide Preliminary Orals
			X	Doctoral Research & Thesis
			X	Non-thesis Research
			X	Teaching (TA, Course Lecturer, Course Instructor)
			X	Final Defense
				Public Thesis Presentation
			<p>12. Identify major historical phases in the development of epidemiological and public health concepts and methods</p>	
<a href="#">340.863</a> P		Seminars		
	X	Journal Clubs		
		Written Comprehensive/Qualifying Exam		
		Department Preliminary Orals		
		School-wide Preliminary Orals		
		Doctoral Research & Thesis		
		Non-thesis Research		
		Teaching (TA, Course Lecturer, Course Instructor)		
		Final Defense		
		Public Thesis Presentation		

