

## Competencies

### Occupational and Environmental Epidemiology – MHS, ScM, PhD, and ScD Department of Epidemiology

			Evaluation Opportunities							
Specific Competencies	Learning Opportunities		Course Work/Exam	Written Comps	Department Preliminary Orals	School Preliminary Orals	Thesis	Final Defense	Public Thesis Presentation	Non-Thesis Research
1. Describe the epidemiology of diseases associated with environmental, industrial, and occupational exposures	Interpret epidemiological findings in societal context	<a href="#">187.610</a> Principles of Toxicology <a href="#">188.680</a> Fundamentals of Occupational Health <a href="#">188.681</a> Occupational Health <a href="#">340.618</a> Occupational Epidemiology <a href="#">340.637</a> Environmental Epidemiology Occupational and Environmental Epidemiology Journal Club Risk Institute Journal Club	X	X	X	X	X	X	X	
	Develop exposure assessment strategies for occupational and environmental settings	<a href="#">187.610</a> Principles of Toxicology <a href="#">188.680</a> Fundamentals of Occupational Health <a href="#">188.681</a> Occupational Health <a href="#">317.600</a> Introduction to the Risk Sciences and Public Policy <a href="#">317.605</a> Methods in Quantitative Risk Assessment <a href="#">317.610</a> Risk Policy, Management, and Communication <a href="#">317.615</a> Topics in Risk Assessment <a href="#">340.618</a> Occupational Epidemiology <a href="#">340.637</a> Environmental Epidemiology Occupational and Environmental Epidemiology Journal Club	X	X			X	X	X	

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1. Describe the epidemiology of diseases associated with environmental, industrial, and occupational exposures, continued	Appropriately use concepts of exposure and dose in epidemiologic research	<a href="#">187.610</a> <a href="#">188.680</a> <a href="#">188.681</a> <a href="#">317.600</a> <a href="#">317.605</a> <a href="#">317.610</a> <a href="#">317.615</a> <a href="#">340.618</a> <a href="#">340.637</a>	Principles of Toxicology Fundamentals of Occupational Health Occupational Health Introduction to the Risk Sciences and Public Policy Methods in Quantitative Risk Assessment Risk Policy, Management, and Communication Topics in Risk Assessment Occupational Epidemiology Environmental Epidemiology	X	X			X	X	X	
	Assess the degree of measurement error and design validation studies for measurements of exposure and dose	<a href="#">340.618</a> <a href="#">340.637</a> <a href="#">340.820</a>	Occupational Epidemiology Environmental Epidemiology Thesis Research Epidemiology	X	X			X	X	X	
	Apply risk assessment principles in studies of occupational and environmental epidemiology	<a href="#">317.600</a> <a href="#">317.605</a> <a href="#">317.610</a> <a href="#">317.615</a>	Introduction to the Risk Sciences and Public Policy Methods in Quantitative Risk Assessment Risk Policy, Management, and Communication Topics in Risk Assessment	X	X			X	X	X	
	Acquire basic understanding of occupational and environmental factors contributing to cancers	<a href="#">180.601</a> <a href="#">180.640</a> <a href="#">340.623</a> <a href="#">340.624-5</a>	Environmental Health Molecular Epidemiology and Biomarkers in Public Health Epidemiologic and Policy Aspects of Selected Childhood Diseases Etiology, Prevention, and Control of Cancer I-II	X	X	X	X				X
	Communicate with stakeholders on occupational and environmental issues	<a href="#">317.610</a> <a href="#">340.820</a> <a href="#">340.863</a>	Risk Policy, Management, and Communication Thesis Research Epidemiology Doctoral Seminars in Epidemiology					X	X	X	X