

Master of Public Health Core Competencies

Core Competencies

Upon graduation, an MPH student should be able to...

Biostatistics

- Interpret results of statistical analyses found in public health studies.

Epidemiology

- Draw appropriate inferences from epidemiologic data.
- Apply basic ethical and legal principles to the collection, maintenance, use and dissemination of epidemiologic data.

Health Policy and Management

- Apply the principles of program planning, development, budgeting, management and evaluation in organizational and community initiatives.

Social and Behavior Sciences

- Apply evidence-based approaches in the development and evaluation of social and behavioral science interventions.

Program Planning

- In collaboration with others, prioritize individual, organizational, and community concerns and resources for public health programs.

Environmental Health-

- Understand the essentials of the risk and solution to biological, chemical, radiological threats to the health and wellbeing of individuals and communities.

Leadership

- Understand and develop the ability to produce influence and produce change and progress toward a goal or vision.

Professionalism

- Be able to undertake a specialized set of tasks and to complete them within a frame work of established ethics and evidence based principles that Promote high standards of personal and organizational integrity, compassion, honesty and respect for all people.

Systems Thinking

- Be able to analyze the process of how things influence one another within a whole. In nature, systems thinking examples include ecosystems in which various elements such as air, water, movement, plants, and animals work together to survive or perish. In organizations, systems consist of people,

structures, and processes that work together to make an organization healthy or unhealthy.

Public Health Biology

- Acquire the ability to incorporate public health biology – the biological and molecular context of public health – into public health practice.

MPH Core Courses & Capstone experiences by which the MPH core competencies are met

Core Public Health Competencies	EHS 850: Introduction to Env. Health Science	HEA 810: Human Behavior Change	HEA 816: Public Health Org. & Admin	HEA 830: Biostatistics	HEA 855: Principles of Epidemiology	EHS 800/ Research Methods EHS	HEA 840: Research Methods CHE	EHS 825: Env Health Planning	MPH 895: Public Health Capstone
Biostatistics		R	R	P	P	R	P		P
Epidemiology: A		R	R	P	P		P		P
Epidemiology: B		R		R	R		P		P
Health Policy		R	P						P
Social and Behavior Science		R			R	R	R		P
Program Planning		R	P		R	R	R	P	P
Environmental Health	P								P
Leadership		P	P	R	R	R	R	R	P
Professionalism	R			R	R		P	R	P
Systems Thinking			R		R	P			P
Public Health Biology	R				R	R			P

- P=Primary, R=Reinforcing

Competencies in the EKU MPH Program: Community Health Education Option

In addition to the MPH Core Competencies, upon graduation a student with an MPH in Community Health Education should be able to...

MPH Community Health Education Option Competencies

1. Collect quantitative and/or qualitative data related to health
2. Infer needs for health education based on assessment findings
3. Select or design strategies and interventions
4. Implement a plan of action
5. Collect and analyze evaluation/research data
6. Apply findings from evaluation/research
7. Assess capacity of potential partner(s) to meet program goals
8. Provide expert assistance in community health
9. Demonstrate skills to influence policy
10. Deliver messages using a variety of strategies, methods and techniques

MPH-CHE Option Courses/Experiences by which the MPH core competencies are met

MPH-CHE Option Courses and Experiences													
Core Public Health Competencies	HEA 820: Global Health	HEA 825: Planning & Eval of CH Programs	HEA 875: Seminary in Cont Health Issues	HEA 898: Health Care Delivery	HEA 791: Women's Health	HEA 792: Human Sexuality	HEA 793: Death and Grief	HEA 795: Alcohol Abuse/Dependency	HEA 804: Drug Abuse & Dependency	HEA 856: Applied Epidemiology	HEA 880: Scholarship in Community Health	HEA 890: Practicum in Community Health	MPH 895: PH Capstone
Biostatistics	R	R		P	R	R	R	P	P	P	P	P	
Epidemiology: A	R	P		P	R		R	P	P	P	P	P	
Epidemiology: B		P			R					P	P	P	
Health Policy		P	R								P	P	
Social and Behavior Science		P	P								P	P	
Program Planning	P	P	R		P	R				R	P	P	
Environmental Health						R				P		R	
Leadership	R	P						R	R	R	P	P	
Professionalism		R			R			R	R	P	P	P	
Systems Thinking	P	P	R							P	P	P	

Public Health Biology										R	R	R	
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MPH-CHE Option Courses/Experiences by which the Community Health option specific competencies are met

MPH in Community Health Competencies	HEA 820: Global Health	HEA 825: Planning and Evaluation	HEA 875: Seminar in Contemporary Issues	HEA 898 : Health Care Delivery	HEA 791: Women's Health	HEA 792: Human Sexuality	HEA 793: Death and Grief	HEA 795: Alcohol Abuse & Dependence	HEA 804: Drug Abuse & Dependence	HEA 856: Applied Epidemiology	HEA 880*:Scholarship in Community Health	HEA 890*: Practicum in Community Health	MPH 895: Public Health Capstone
Collect Quantitative and/or Qualitative Data Related to Health		P						R	P	R	P	P	
Infer Needs for Health Education Based on Assessment Findings		P	R	R	R	R		P	P	P	P	P	
Select or Design Strategies and Interventions		P			R	R	R		R	R	P	P	
Implement a Plan of Action		R									P	P	
Collect and Analyze Evaluation/Research Data	P	P			P	R					P	P	
Apply Findings From Evaluation/Research	P	P	P	P	P	P	R	P	P	P	P	P	P
Assess capacity of potential partner(s) to meet program goals		R			R					R	P	P	
Provide Expert Assistance in Community Health	R	R			R	R					P	P	P
Demonstrate skills to influence policy			R	R							P	P	P
Deliver Messages Using a Variety of Strategies, Methods and Techniques	P	R	P	P	P	R	P	R	R	P	P	P	P

P=Primary, R=Reinforcing

Competencies in the ECU MPH Program: Environmental Health Science Option

*Competencies: Upon graduation a student with an MPH should be able to,

1. Describe the direct and indirect human, ecological and safety effects of major environmental and occupational agents.
2. Describe genetic, physiologic and psychosocial factors that affect susceptibility to adverse health outcomes following exposure to environmental hazards.
3. Describe federal and state regulatory programs, guidelines and authorities that control environmental health issues.
4. Specify current environmental risk assessment methods.
5. Specify approaches for assessing, preventing and controlling environmental hazards that pose risks to human health and safety.
6. Explain the general mechanisms of toxicity in eliciting a toxic response to various environmental exposures.
7. Discuss various risk management and risk communication approaches in relation to issues of environmental justice and equity.
8. Develop a testable model of environmental insult.

**Association of Schools of Public Health*

**Environmental Health Science and Protection Accreditation Council
(EHAC) Competencies in the EKU MPH Program: Environmental Health
Science Option**

EHS Option Courses/Experiences by which the MPH core competencies are met

MPH-EHS Option Courses and Experiences							
Core Competencies	EHS 855: Emergency San/Shelter/Environments	EHS 865: Env Toxicology	EHS880: Food/Waterborne Disease	EHS 863: Field Experience in Env Health	EHS 890: Graduate Research Env Health Science	Elective:	Elective
Biostatistics		R		R	R		
Epidemiology: A		R	R			R	
Epidemiology: B		R			R		
Health Policy				R			
Social and Behavior Science				R		R	
Program Planning				R		R	
Environmental Health	P	P	P	P	P	P	P
Leadership				R	R	R	
Professionalism				P	P		
Systems Thinking				R		R	
Public Health Biology	R	R	R	R	R	R	R

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MPH-EHS Option Courses/Experiences by which the EHS option Specific Competencies are met

Environmental Health Competencies	EHS 800**	EHS 825**	EHS 855**	EHS 865**	EHS 880**	EHS 890**	EHS-863**	MPH 895**	Elective-3 hrs	Elective –3 hrs
Describe the direct and indirect human, ecological and safety effects of major environmental and occupational agents.	P		P		P	P		P	P	P
Describe genetic, physiologic and psychosocial factors that affect susceptibility to adverse health outcomes following exposure to environmental hazards			P	P	P				P	P
Describe federal and state regulatory programs, guidelines and authorities that control environmental health issues.	R	R	P	R	P		R	R		R
Specify current environmental risk assessment methods.	R		P	P				R	R	
Specify approaches for assessing, preventing and controlling environmental hazards that pose risks to human health and safety.			R	P	R				R	R
Explain the general mechanisms of toxicity in eliciting a toxic response to various environmental exposures.			R	P	R	R			R	R
Discuss various risk management and risk communication approaches in relation to issues of environmental justice and equity	R		R	R	R			R	R	R
Develop a testable model of environmental insult.	R	R	P	P	P			R		

CORE *

Required **

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