MPH – Maternal and Child Health (MACH) Concentration
Competencies and Learning Outcomes

COMPETENCY/LEARNING OUTCOME KEY

Introduced (I) - Competency is introduced through basic public health knowledge and principles.
Reinforced (R) - Competency is reinforced through the formulation, integration and synthesis of public health concepts used to address complex problems.
X: Learning Outcome (LO) is covered and primarily assessed in the course.
[1]The learning experiences that make up the "culminating experience" enable students to reinforce mastery in one or more competencies/learning outcomes.

MPH-MACH C1: Comprehend, apply, and evaluate multi-level and inter-disciplinary theories and models used to solve MACH problems, including the Life Course Model.		MACH 5330 Introduction to Maternal and Child Health	BACH 5313 Intro. to Data Management & Statistical Computing	BACH 5314 Quantitative Research Methods	BACH 5321 Injury & Violence Prevention	MACH 5331 Human Sexuality & Health	MACH 5332 Clinical Aspects of Reproductive Health	MACH 5333 Maternal & Child Nutrition	BACH 5340 Community Assessment & Program Planning	BACH 5350 Community Health Program Evaluation	BACH 6310 Qualitative Research Methods	MACH 5001 MPH Comprehensive Examination	MACH 5297 Public Health Practice Experience
												Culminating Experience[1]	
		I			R	R	R	R	R	R		R	*R*
LO 1.1	Define and apply theories and models used to explain human behavior on individual, community, and population levels.	X			X	X	X	X	X	X		X	X
LO 1.2	Explain initiation, maintenance, and cessation of risk behavior using theoretical constructs and other variables.	X			X	X	X	X	X	X		X	X

Assessment Methods: Exams, theory papers, discussions, assignments, projects, presentations, team activities, evaluation proposals, theory papers, assessments, practice experience

MPH-MACH C2: Identify and evaluate the relative contribution of ecological determinants to MACH outcomes among populations, including vulnerable populations and disadvantaged communities.		MACH 5330 Introduction to Maternal and Child Health	BACH 5313 Intro. to Data Management & Statistical Computing	BACH 5314 Quantitative Research Methods	BACH 5321 Injury & Violence Prevention	MACH 5331 Human Sexuality & Health	MACH 5332 Clinical Aspects of Reproductive Health	MACH 5333 Maternal & Child Nutrition	BACH 5340 Community Assessment & Program Planning	BACH 5350 Community Health Program Evaluation	BACH 6310 Qualitative Research Methods	MACH 5001 MPH Comprehensive Examination	MACH 5297 Public Health Practice Experience
												Culminating Experience[1]	
		I			R	R	R	R	R	R		R	*R*
LO 2.1	Identify and describe socio-cultural and political-economic factors that influence population health.	X			X	X	X	X	X	X		X	X
LO 2.2	Identify, contextualize, and contrast factors contributing to disparities in population health.	X			X	X	X	X	X	X	X	X	X

Assessment Methods: Exams, theory papers, discussions, assignments, projects, presentations, team activities, evaluation proposals, theory papers, assessments, practice experience

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MPH-MACH C3: Understand, select and employ appropriate quantitative and qualitative research methods for testing MACH interventions and resolving MACH problems.		MACH 5330 Introduction to Maternal and Child Health	BACH 5313 Intro. to Data Management & Statistical Computing	BACH 5314 Quantitative Research Methods	BACH 5321 Injury & Violence Prevention	MACH 5331 Human Sexuality & Health	MACH 5332 Clinical Aspects of Reproductive Health	MACH 5333 Maternal & Child Nutrition	BACH 5340 Community Assessment & Program Planning	BACH 5350 Community Health Program Evaluation	BACH 6310 Qualitative Research Methods	MACH 5001 MPH Comprehensive Examination	MACH 5297 Public Health Practice Experience
												Culminating Experience[1]	*Culminating Experience[1]*
			I	I	R	R	R	R	R	R	I	R	*R*
LO 3.1	Describe the principles and guidelines used to protect human subjects in research.			X						X	X	X	X
LO 3.2	Develop and employ measures to assess health and social characteristics of people.		X	X					X	X	X	X	X
LO 3.3	Describe and apply appropriate research study designs.			X					X	X	X	X	X
LO 3.4	Identify and explain how to use several qualitative research methods.									X	X	X	X
LO 3.5	Communicate the results of needs assessments, evaluation reports, and research studies.		X	X	X	X	X	X	X	X	X	X	X
Assessment Methods: Exams, theory papers, discussions, assignments, projects, presentations, team activities, evaluation proposals, theory papers, assessments, practice experience													

MPH-MACH C4: Plan, implement, administer, and evaluate MACH initiatives and programs using asset-based and data-driven approaches.		MACH 5330 Introduction to Maternal and Child Health	BACH 5313 Intro. to Data Management & Statistical Computing	BACH 5314 Quantitative Research Methods	BACH 5321 Injury & Violence Prevention	MACH 5331 Human Sexuality & Health	MACH 5332 Clinical Aspects of Reproductive Health	MACH 5333 Maternal & Child Nutrition	BACH 5340 Community Assessment & Program Planning	BACH 5350 Community Health Program Evaluation	BACH 6310 Qualitative Research Methods	MACH 5001 MPH Comprehensive Examination	MACH 5297 Public Health Practice Experience
												Culminating Experience[1]	*Culminating Experience[1]*
		I		I	R	R	R	R	I	R	R	R	*R*
LO 4.1	Assess individual, organizational, and community assets and needs.			X	X	X	X	X	X	X	X	X	X
LO 4.2	Describe appropriate theories, models, and methods for planning evidence-based interventions.	X			X	X	X	X	X	X		X	X
LO 4.3	Construct a mixed-method, utilization-focused evaluation design that includes process and outcome components.									X		X	X
Assessment Methods: Exams, theory papers, discussions, assignments, projects, presentations, team activities, evaluation proposals, theory papers, assessments, practice experience													

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		MACH 5330	BACH 5313	BACH 5314	BACH 5321	MACH 5331	MACH 5332	MACH 5333	BACH 5340	BACH 5350	BACH 6310	MACH 5001	MACH 5297
MPH-MACH C5: Understand, administer, and evaluate community-based participatory approaches for reducing MACH disparities and improving MACH outcomes.		Introduction to Maternal and Child Health	Intro. to Data Management & Statistical Computing	Quantitative Research Methods	Injury & Violence Prevention	Human Sexuality & Health	Clinical Aspects of Reproductive Health	Maternal & Child Nutrition	Community Assessment & Program Planning	Community Health Program Evaluation	Qualitative Research Methods	MPH Comprehensive Examination	Public Health Practice Experience
												Culminating Experience[1]	
		I							I	R		R	*R*
LO 5.1	Develop partnerships with disadvantaged communities based on mutual respect and trust.	X							X	X		X	X
LO 5.2	Identify collaborative strategies for capacity-building in disadvantaged communities.								X	X		X	X
LO 5.3	Develop and deliver communications tailored to the needs of disadvantaged communities.								X	X		X	X
Assessment Methods: Exams, theory papers, discussions, assignments, projects, presentations, team activities, evaluation proposals, theory papers, assessments, practice experience													