

PhD in Public Health Sciences

Core Competencies and Learning Outcomes

COMPETENCY MASTERY KEY

Introductory (I) - Competency is introduced through basic public health knowledge and principles

Reinforcing (R) - Competency is reinforced through the integrated formulation and synthesis of public health concepts and principles to address complex problems

X: Learning Outcome (LO) is covered and primarily assessed in the course.

¹PhD Culminating Experience: Students have the opportunity to expand on various core and concentration competencies.

PhD-Core C1		BIOS 5310 Biostatistics for Public Health II	BIOS 5311 Regression and ANOVA	BIOS 6300 Advanced Methods in BIOS	HMAP 6360 Ethical Issues in Public Health	PHED 6310 Methods for Public Health Studies	PHED 6118 Seminar in Public Health Research	PHED 6220 Scientific & Grant Writing	PHED 6321 Pedagogy in Public Health	DEPT 6000 Doc. Disserta tion	DEPT 6395 PhD Comp Exam	DEPT 6051 Prof. & Acad. Devlpt
Research Theories: Synthesize historical, contemporary, and emerging theories and paradigms of significance to public health.				I	R	I	R	R		Culminating Experience¹		I/R
										R	R	
LO 1.1	Synthesize literature-based information using systematic processes.			X	X	X	X	X		X	X	X
LO 1.2	Apply appropriate theories and conceptual framework/models to address public health issues and research.			X	X	X		X		X	X	X
Assessment Methods Used: participation, self-assessments, faculty-assessments, projects, community leadership, workshops, reflections, journal club, manuscripts, papers, statistical applications, proposals, teaching, written/oral critiques, NIH Mock Study, comprehensive examination, dissertation, PAD												
PhD-Core C2		BIOS 5310 Biostatistics for Public Health II	BIOS 5311 Regression and ANOVA	BIOS 6300 Advanced Methods in BIOS	HMAP 6360 Ethical Issues in Public Health	PHED 6310 Methods for Public Health Studies	PHED 6118 Seminar in Public Health Research	PHED 6220 Scientific Grant Writing	PHED 6321 Pedagogy in Public Health	DEPT 6000 Doc. Disserta tion	DEPT 6395 PhD Comp Exam	DEPT 6051 Prof. & Acad. Devlpt
Critical Analysis: Critically evaluate the strengths and weaknesses of existing research evidence and identify significant gaps in knowledge.				I	R	I	R	R	R	Culminating Experience		I/R
										R	R	
LO 2.1	Identify the strengths, weaknesses and limitations of existing literature.			X	X	X	X	X	X	X	X	X
LO 2.2	Formulate a research questions/hypothesis to address knowledge gaps.			X	X	X		X		X	X	X
Assessment Methods Used: participation, self-assessments, faculty-assessments, projects, community leadership, workshops, reflections, journal club, manuscripts, papers, statistical applications, proposals, teaching, written/oral critiques, NIH Mock Study, comprehensive examination, dissertation, PAD												

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PhD-Core C3 Research Methodology: Comprehend, design and apply relevant and advanced research methods based on rigorous standards of evidence.		BIOS 5310 Biostatistics for Public Health II	BIOS 5311 Regression and ANOVA	BIOS 6300 Advanced Methods in BIOS	HMAP 6360 Ethical Issues in Public Health	PHED 6310 Methods for Public Health Studies	PHED 6118 Seminar in Public Health Research	PHED 6220 Scientific & Grant Writing	PHED 6321 Pedagogy in Public Health	DEPT 6000 Doc. Disserta tion	DEPT 6395 PhD Comp Exam	DEPT 6051 Prof. & Acad. Devlpt
		I	I	I		I	R	R		Culminating Experience		I/R
LO 3.1	Apply various research methods in public health.					X	X	X		X	X	X
LO 3.2	Apply a study design to a specific public health research question.	X	X			X		X		X	X	X
LO 3.3	Analyze data to address research questions.	X	X	X			X			X	X	X
Assessment Methods Used: participation, self-assessments, faculty-assessments, projects, community leadership, workshops, reflections, journal club, manuscripts, papers, statistical applications, proposals, teaching, written/oral critiques, NIH Mock Study, comprehensive examination, dissertation, PAD												
PhD-Core C4 Scientific Communications: Develop professional skills in scientific and grant writing, oral communication, and teaching.		BIOS 5310 Biostatistics for Public Health II	BIOS 5311 Regression and ANOVA	BIOS 6300 Advanced Methods in BIOS	HMAP 6360 Ethical Issues in Public Health	PHED 6310 Methods for Public Health Studies	PHED 6118 Seminar in Public Health Research	PHED 6220 Scientific & Grant Writing	PHED 6321 Pedagogy in Public Health	DEPT 6000 Doc. Disserta tion	DEPT 6395 PhD Comp Exam	DEPT 6051 Prof. & Acad. Devlpt
		I	I	I	R	I	R	R	R	R	R	I/R
LO 4.1	Prepare and submit peer reviewed publications and abstracts.					X	X	X		X	X	X
LO 4.2	Use effective communication strategies for different audiences.	X	X	X	X	X	X		X	X	X	X
LO 4.3	Prepare research/grant proposals.					X		X		X	X	X
Assessment Methods Used: participation, self-assessments, faculty-assessments, projects, community leadership, workshops, reflections, journal club, manuscripts, papers, statistical applications, proposals, teaching, written/oral critiques, NIH Mock Study, comprehensive examination, dissertation, PAD												

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PhD-Core C5		BIOS 5310 Biostatistics for Public Health II	BIOS 5311 Regression and ANOVA	BIOS 6300 Advanced Methods in BIOS	HMAP 6360 Ethical Issues in Public Health	PHED 6310 Methods for Public Health Studies	PHED 6118 Seminar in Public Health Research	PHED 6220 Scientific & Grant Writing	PHED 6321 Pedagogy in Public Health	DEPT 6000 Doc. Disserta tion	DEPT 6395 PhD Comp Exam	DEPT 6051 Prof. & Acad. Devlpt
Ethics: Uphold the highest ethical standards in all professional endeavors, including the design and implementation of research and the participation of human subjects.					R	I		R	R	Culminating Experience		I/R
LO 5.1	Identify ethical issues associated with public health practice and research.				X	X		X	X	R	R	R
LO 5.2	Apply ethical concepts in the conduct of research.				X	X				R	R	R
LO 5.3	Assess ethical consideration in developing and evaluating programs.				X					R	R	R
Assessment Methods Used: participation, self-assessments, faculty-assessments, projects, community leadership, workshops, reflections, journal club, manuscripts, papers, statistical applications, proposals, teaching, written/oral critiques, NIH Mock Study, comprehensive examination, dissertation, PAD												
PhD-Core C6		BIOS 5310 Biostatistics for Public Health II	BIOS 5311 Regression and ANOVA	BIOS 6300 Advanced Methods in BIOS	HMAP 6360 Ethical Issues in Public Health	PHED 6310 Methods for Public Health Studies	PHED 6118 Seminar in Public Health Research	PHED 6220 Scientific Grant Writing	PHED 6321 Pedagogy in Public Health	DEPT 6000 Doc. Disserta tion	DEPT 6395 PhD Comp Exam	DEPT 6051 Prof. & Acad. Devlpt
Discovery and Translational Theory: Conduct investigative research, including areas that facilitate the translation and application of discovery to practice.							R			R	R	I/R
LO 6.1	Interpret research findings and derive implications for public health.						X			R	R	R
LO 6.2	Demonstrate how evidence influences or is translated into public health.						X			R	R	R
Assessment Methods Used: participation, self-assessments, faculty-assessments, projects, community leadership, workshops, reflections, journal club, manuscripts, papers, statistical applications, proposals, teaching, written/oral critiques, NIH Mock Study, comprehensive examination, dissertation, PAD												