

## Practice Experience Proposal

### Louisiana State University Health Science Center School of Public Health

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Complete this form with your Academic Advisor and Practice Site Preceptor one semester prior to registering for PUBH 6800: Practice Experience. Submit the completed and signed form to the practice experience office for approval.

Student Name

Academic Program

Name of Organization/Agency

Mission of Organization/Agency

Preceptor's Name

Job Title

Phone

E-mail

Project Title

Brief Description of the Proposed Project

Start Date

End Date

Student's Work Schedule

**Select the box next to the competencies that will be applied during your practice experience. Select at least five competencies, of which at least three must be foundational competencies.**

### **List of Foundational Competencies**

#### **Evidence-based Approaches to Public Health**

- ☐ Apply epidemiological methods to settings and situations in public health practice
- ☐ Select quantitative and qualitative data collection methods appropriate for a given public health context
- ☐ Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate
- ☐ Interpret results of data analysis for public health research, policy or practice

#### **Public Health & Health Care Systems**

- ☐ Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings
- ☐ Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and systemic levels

#### **Planning & Management to Promote Health**

- ☐ Assess population needs, assets and capacities that affect communities' health
- ☐ Apply awareness of cultural values and practices to the design, implementation or critique of public health policies or programs  
Design a population-based policy, program, project or intervention
- ☐ Explain basic principles and tools of budget and resource management
- ☐ Select methods to evaluate public health programs

#### **Policy in Public Health**

- ☐ Discuss the policy-making process, including the roles of ethics and evidence
- ☐ Propose strategies to identify relevant communities and individuals and build coalitions and partnerships for influencing public health outcomes
- ☐ Advocate for political, social or economic policies and programs that will improve health in diverse populations
- ☐ Evaluate policies for their impact on public health and health equity

#### **Leadership**

- ☐ Apply leadership and/or management principles to address a relevant issue
- ☐ Apply negotiation and mediation skills to address organizational or community challenges

#### **Communication**

- ☐ Select communication strategies for different audiences and sectors
- ☐ Communicate audience-appropriate public health content, both in writing and through oral presentation to non-academic, non-peer audience with attention to factors such as literacy and health literacy
- ☐ Describe the importance of cultural humility in communicating public health content

#### **Interprofessional Practice**

- ☐ Integrate perspectives from other sectors and/or professions to promote and advance population health

#### **Systems Thinking**

- ☐ Apply a systems thinking tool to visually represent a public health issue in a format other than standard narrative

## Program Specific Competencies

<b>(Starting Fall 2024)</b>	
<b>Biostatistics and Data Science Competencies</b>	
<input type="checkbox"/>	Apply principles of inferential statistics and data science to analyze various types of health-related data and decision-making.
<input type="checkbox"/>	Apply hypothesis tests for public health and medical-related research questions, select appropriate statistical methods based on the study objectives and data type, and draw conclusions based on the testing results.
<input type="checkbox"/>	Evaluate public health and medical studies and design suitable power analysis and sample size calculations.
<input type="checkbox"/>	Apply software and programming skills for data acquisition, management, cleaning, visualization, and analysis.
<input type="checkbox"/>	Apply expertise to advise researchers and public health professionals on translating research questions into testable hypotheses to advance public health.
<input type="checkbox"/>	Develop skills in communication, interpretation, and presentation of research findings to collaborators or clients
<b>(Prior to Fall 2024)</b>	
<b>Biostatistics Competencies</b>	
<input type="checkbox"/>	Explain the role that probability and statistical distributions play in inferential statistics and decision-making.
<input type="checkbox"/>	Advise researchers and public health professionals on translating research questions into testable hypotheses to advance public health.
<input type="checkbox"/>	Prepare appropriate analytic approaches for public health research questions, use corresponding statistical methods to test null hypotheses, and draw conclusions based on the testing results
<input type="checkbox"/>	Selectively apply hypothesis tests for comparing treatment strategies and exposure groups appropriate to the type of response measurement (e.g., binary, ordinal, continuous)
<input type="checkbox"/>	Perform power analysis and sample size calculations to aid in the planning of public health studies.
<input type="checkbox"/>	Communicate to colleagues and clients the assumptions, limitations, and (dis)advantages of commonly used statistical methods and describe preferred methodological alternatives when assumptions are not met.
<input type="checkbox"/>	Use computer software for acquisition, management, analysis of data, and presentation of results.
<b>(Starting Fall 2024)</b>	
<b>Community Health Science and Policy Competencies</b>	
<input type="checkbox"/>	Apply behavioral health theories to community health approaches.
<input type="checkbox"/>	Assess the impact of community-based interventions on public health outcomes.
<input type="checkbox"/>	Demonstrate proficiency in planning, and evaluating ethical and culturally aligned public health programs/interventions.
<input type="checkbox"/>	Apply management practices to decision-making in public health.
<input type="checkbox"/>	Develop, analyze, and evaluate policies for improving health programming.
<input type="checkbox"/>	Evaluate potential solutions to health issues affecting individuals and populations, including health disparities through a socio-ecological lens. .
<b>(Prior to Fall 2024)</b>	
<b>Behavioral and Community Health Sciences Competencies</b>	
<input type="checkbox"/>	Prioritize individual, organizational and community concerns, assets, resources and deficits for social and behavioral science interventions and policy change.
<input type="checkbox"/>	Analyze the role of individual, social and community factors in both the onset and solution of public health problems through intervention or policy change.
<input type="checkbox"/>	Design, implement, and interpret program evaluation methods to assess and improve community health programs and/or policies
<input type="checkbox"/>	Understand and apply public health methods across multiple levels of influence, specifically using the Social Ecological Model
<input type="checkbox"/>	Translate research to public health practice and policy
<input type="checkbox"/>	Apply evidence-based public health approaches to examine and respond to behavioral and community health issues in Louisiana
<b>(Prior to Fall 2024)</b>	
<b>Health Policy and Systems Management Competencies</b>	
<input type="checkbox"/>	Apply quality and performance improvement concepts to address organizational and systems performance issues.
<input type="checkbox"/>	Demonstrate innovative system management strategies, technology, and communication solutions for health policy and organizational problems.
<input type="checkbox"/>	Appraise the current issues in planning, resources allocation, and financing and their effects on consumers, providers, and payers in a health system.
<input type="checkbox"/>	Analyze the impact of political, social, and economic policies on health systems at the local, state, national, and international levels and formulate solutions to key problems.
<input type="checkbox"/>	Apply evidence-based management practices to critical evaluation and decision making in health care delivery.
<input type="checkbox"/>	Propose policy development, analysis, and evaluation processes for improving the health status of populations.

<input type="checkbox"/>	Assess organization behavior and structure for solving organization problems through the lens of system thinking.
<b>(Starting Fall 2024)</b>	
<b>Environmental Health, Climate and Sustainability Competencies</b>	
<input type="checkbox"/>	Identify and assess health impacts of environmental hazards.
<input type="checkbox"/>	Appraise and communicate the science on climate change and sustainable solutions.
<input type="checkbox"/>	Develop and evaluate policies to equitably address hazards and risks.
<input type="checkbox"/>	Analyze and interpret data related to hazards, risks and impacts.
<input type="checkbox"/>	Facilitate resilience and adaptation through geospatial planning to address vulnerabilities and risks.
<b>(Prior to Fall 2024)</b>	
<b>Environmental and Occupational Health Sciences Competencies</b>	
<input type="checkbox"/>	Collect, analyze, and interpret environmental and occupational health outcomes data.
<input type="checkbox"/>	Examine the direct and indirect human, ecological, and safety effects of environmental and occupational exposures in order to protect the health of workers and the public.
<input type="checkbox"/>	Evaluate biological, genetic, physiological, and psychological factors that affect human susceptibility to adverse health outcomes following exposures to environmental and occupational health hazards.
<input type="checkbox"/>	Select appropriate human health risk assessment methods for a variety environmental and occupational data.
<input type="checkbox"/>	Recommend corrective strategies for mitigating and preventing environmental and occupational exposures that pose human health and safety risks.
<input type="checkbox"/>	Apply knowledge of federal and state regulatory programs, guidelines, and authorities appropriate to environmental and occupational health and safety.
<b>(Starting Fall 2024)</b>	
<b>Epidemiology and Population Health Competencies</b>	
<input type="checkbox"/>	Critique the design, analysis and evaluation of an epidemiologic study.
<input type="checkbox"/>	Distinguish the major sources of bias in epidemiology research and literature and the ways to evaluate and reduce the bias.
<input type="checkbox"/>	Apply and perform epidemiologic analyses using linear, logistic, Cox and Poisson regression using a standard statistical package (e.g. SAS, R, or STATA).
<input type="checkbox"/>	Perform data analysis to evaluate data for confounding and effect modification (interaction) applying the tools of causal inference in epidemiology.
<input type="checkbox"/>	Effectively communicate epidemiologic information to diverse audiences in diverse settings.
<input type="checkbox"/>	Apply evidence-based management practices and quality improvement concepts to address health care organization and delivery issues.
<input type="checkbox"/>	Analyze the impact of political, social, and economic policies on health systems at the local, state, national, and international levels and formulate solutions to key problems.
<b>(Prior to Fall 2024)</b>	
<b>Epidemiology Competencies</b>	
<input type="checkbox"/>	Critique the processes involved in the design, analysis and evaluation of an epidemiologic study.
<input type="checkbox"/>	Distinguish the major sources of bias in epidemiologic research and the ways to evaluate and reduce the bias.
<input type="checkbox"/>	Apply epidemiologic analyses using linear, logistic, Cox and Poisson regression.
<input type="checkbox"/>	Evaluate data for confounding and effect modification (interaction)
<input type="checkbox"/>	Apply the tools of causal inference in epidemiology (e.g., counterfactuals, directed acyclic graphs)
<input type="checkbox"/>	Appraise the strengths and weaknesses of epidemiologic literature
<input type="checkbox"/>	Effectively communicate epidemiologic information to diverse audiences in diverse settings.

**Complete all sections below.** Practice-based products that demonstrate MPH competency achievement. \*Each of the selected competencies must be paired with a deliverable. \*\*Work activities support the creation and completion of products for the organization's use. \*\*\*Students must create at least two deliverables. Deliverables are tangible and functional products that the organization can adopt such as a strategic plan, community health assessment, data analysis report and/or policy brief.

Competencies as defined above that are documented through product\*

Work Activities\*\*

Deliverable product in portfolio that demonstrate competencies\*\*\*

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Work Activities\*\*

Deliverable product in portfolio that demonstrate competencies\*\*\*

Competencies as defined above that are documented through product\*\*\*

Work Activities\*\*

Deliverable product in portfolio that demonstrate competencies\*\*\*

Choose one competency and written deliverable product to continue in PUBH 6600: Culminating Experience \*\*\*\*

**Practice Experience Proposal  
Signature Page**

**Students' Academic Advisor must sign this form acknowledging they discussed these competencies with the student and the student has the knowledge and skills to demonstrate the work proposed.**

Student's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Preceptor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Student Advisor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Course Director's Signature: : \_\_\_\_\_ Date: \_\_\_\_\_