

## Proposal

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

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One semester prior, complete this then have the practice experience coordinator and your preceptor review and sign the form. Submit the completed and signed form to the practice experience office.

**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 the breadth of 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 societal 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 or implementation 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 multiple dimensions of the policy-making process, including the roles of ethics and evidence
- Propose strategies to identify stakeholders 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 principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making
- 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
- Describe the importance of cultural competence in communicating public health content

#### **Interprofessional Practice**

- Perform effectively on interprofessional teams

#### **Systems Thinking**

- Apply systems thinking tools to a public health issue

## **Program Specific Competencies**

### **Behavioral and Community Health Sciences Program Competencies**

Prioritize individual, organizational and community concerns, assets, resources and deficits for social and behavioral science interventions and policy change

Analyze the role of individual, social and community factors in both the onset and solution of public health problems through intervention or policy change

Design, implement, and interpret program evaluation methods to assess and improve community health programs and/or policies

Understand and apply public health methods across multiple levels of influence, specifically using the Social Ecological Model

Translate research to public health practice and policy

Apply evidence-based public health approaches to examine and respond to behavioral and community health issues in Louisiana

### **Biostatistics Program Competencies**

Explain the role that probability and statistical distributions play in inferential statistics and decision-making.

Advise researchers and public health professionals on translating research questions into testable hypotheses to advance public health.

Prepare appropriate analytic approaches for public health research questions, use corresponding statistics method to test the null hypotheses, and draw conclusions based on the testing results.

Selectively apply hypothesis tests for comparing treatment strategies and exposure groups appropriate to the type of response measurement (e.g., binary, ordinal, continuous).

Perform power analysis and sample size calculations to aid in the planning of public health studies.

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.

Use computer software for acquisition, management and analysis of data and presentation of results.

Create and present oral and written reports of the methods, results and interpretations of statistical analyses to both statisticians and non-statisticians.

### **Environmental and Occupational Health Sciences Program Competencies**

Collect, analyze, and interpret environmental and occupational health outcomes data.

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.

Evaluate biological, genetic, physiological, and psychological factors that affect human susceptibility to adverse health outcomes following exposures to environmental and occupational health hazards.

Select appropriate human health risk assessment methods for a variety of environmental and occupational data.

Recommend corrective strategies for mitigating and preventing environmental and occupational exposures that pose human health and safety risks.

Apply knowledge of federal and state regulatory programs, guidelines, and authorities appropriate to environmental and occupational health and safety.

Apply risk management and risk communication methodologies to address issues of environmental justice, equity, and policy.

Propose environmental and occupational health promotion and injury prevention strategies for communities and workplaces.

### **Epidemiology Program Competencies**

- Critique the processes involved in the design, analysis and evaluation of an epidemiologic study.
- Distinguish the major sources of bias in epidemiologic research and the ways to evaluate and reduce the bias.
- Apply epidemiologic analyses using linear, logistic, Cox and Poisson regression.
- Evaluate data for confounding and effect modification (interaction)
- Apply the tools of causal inference in epidemiology (e.g. counterfactuals, directed acyclic graphs)
- Appraise the strengths and weaknesses of epidemiologic literature
- Effectively communicate epidemiologic information to diverse audiences in diverse settings.

### **Health Policy and Systems Management Program Competencies**

- Apply quality and performance improvement concepts to address organizational and systems performance issues
- Demonstrate innovative system management strategies, technology, and communication solutions for health policy and organizational problems.
- Appraise the current issues in planning, resources allocation, and financing and their effects on consumers, providers, and payers in a health system.
- 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.
- Apply evidence-based management practices to critical evaluation and decision making in health care delivery.
- Propose policy development, analysis, and evaluation processes for improving the health status of populations.
- Assess organization behavior and structure for solving organization problems through the lens of system thinking.

**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 are 1) Activities that support the creation and completion of products for the organization's use. \*Each student must create at least two products | Deliverables are tangible and functional products or a service that the organization can adopt such as 1) strategic plan based off of organization self-assessment 2) data analysis report 3) Policy Brief

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

Work Activities\*\*

Specific products in portfolio that demonstrate competencies obtained\*

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Work Activities\*\*

Specific products in portfolio that demonstrate competencies obtained\*

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

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

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