

**OU College of Public Health
MPH in Biostatistics
EVALUATION OF COMPETENCIES DURING COMPREHENSIVE EXAMINATION**

Student Name: _____ Presentation Date: _____

This form is designed for faculty to use in evaluating students' ability during the comprehensive examination to answer questions that probe aspects of the foundational and concentration competencies for the MPH in Biostatistics. Faculty can use the form before the examination to plan and prioritize the areas they will address. During the examination, the faculty member can check the subset of items that apply to the student's culminating experience, record the nature of questions asked of the student, and rate the student's level of completion.

Committee Member Name _____

Items checked addressed in Practicum and/or Culminating Experience

Foundational Comp. 1. Apply epidemiological methods to the breadth of settings and situation in public health practice

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 2. Select quantitative and qualitative data collection methods appropriate for a given public health context

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 3. Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software as appropriate

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 4. Interpret results of data analysis for public health research, policy or practice

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 5. Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 6. 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

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 7. Assess population needs, assets and capacities that affect communities' health

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 8. Apply awareness of cultural values and practices to the design or implementation of public health policies or programs

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 9. Design a population-based policy, program, policy or intervention

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 10. Explain basic principles and tools of budget and resource management

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 11. Select methods to evaluate public health programs

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 12. Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 13. Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 14. Advocate for political, social or economic policies and programs that will improve health in diverse populations

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 15. Evaluate policies for their impact on public health and health equity

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 16. Apply principles of leadership, governance and management, which includes creating a vision, empowering others, fostering collaboration and guiding decision making

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 17. Apply negotiation and mediation skills to address organizational or community challenges

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 18. Select communication strategies for different audiences and sectors

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 19. Communicate audience-appropriate public health content, both in writing and through oral presentation

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 20. Describe the importance of cultural competence in communicating public health content

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 21. Perform effectively on interprofessional teams

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Foundational Comp. 22. Apply systems thinking tools to a public health issue

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Biostat 1 Use computer software for data entry and database management

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Biostat 2 Determine the most appropriate method of statistical analysis reflecting a given question of interest, the implemented study design and the available data, implementing preferred methodological alternatives to commonly used statistical methods when their assumptions are not met

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Biostat 3 Read the statistical methods reported in public health and medical literature and comment on their appropriateness to the study design and research questions

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Biostat 4 Compare and contrast advantages and disadvantages in the use of nonparametric or parametric statistical procedures, and in the use of univariate, bivariate and multivariable procedures

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Epi 1 Identify, access, and integrate sources of health data such as vital statistics records, disease registries, national surveys, and medical records in order to address epidemiologic questions

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Epi 3 Given an epidemiological investigation, compare and contrast strengths, limitations, and inference that may be drawn from data collected through the use of epidemiological research designs including cohort, case-control, ecologic, and cross-sectional studies

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Epi 4 Assess and explain strategies to summarize and report the impact of effect modification and to control for or minimize bias, including selection, information, and confounding bias on inference from epidemiologic studies

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Prof Bio Become an integral team member, as a junior analyst or research assistant, actively participating in identifying and formulating public health or biomedical questions, selecting appropriate study designs, identifying appropriate data collection and management methods, and selecting appropriate statistical analysis methods

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Committee member comments and overall evaluation of the Culminating Experience: Satisfactory Unsatisfactory

Signature