

**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 core and program 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

Core 1 Describe the roles biostatistics serves in the discipline of public health (A.1)

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Core 2 Apply and interpret results from descriptive and inferential methodologies according to the type of study design, measurement scale, and available data for answering a particular research question (modification of A.4 and A.7)

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Core 3 Describe the direct and indirect human, ecological and safety effects of major environmental and occupational agents (modification of B.1)

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Core 4 Explain the importance of epidemiology, and aspects of a public health problem in terms of magnitude, person, time and place, for informing scientific, ethical, economic and political discussion of health issues (modification of C.3 and C.4)

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

- Core 5 Calculate basic epidemiology measures and draw appropriate inference from epidemiologic data (modification of C.7 and C.9)

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

- Core 6 Identify the main components and issues of the organization, financing and delivery of health services and public health systems in the US (D.1)

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

- Core 7 Discuss the policy process for improving the health status of populations (D4)

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

- Core 8 Identify basic theories, concepts and models from a range of social and behavioral disciplines that are used in public health research and practice (E.1)

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

- Core 9 Demonstrate effective written and oral skills for communicating with different audiences in the context of professional public health activities (F.7)

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

- Core 10 Describe the roles of, history, power, privilege and structural inequality in producing health disparities (G.1)

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

- Core 11 Promote high standards of personal and organizational integrity, compassion, honesty and respect for all people (J.5)

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

- Core 12 Describe how social, behavioral, environmental, and biological factors contribute to specific individual and community health concerns (K.1)

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

- Biostat 1 Use computer software for data entry and database management and use computer programs for summarizing, analyzing and displaying public health or biomedical research results (modification of A.8)

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 (modification of A.3 and A.7)

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 (modification of A.9)

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 (modification of A.3 and A.6)

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 (modification of C.1)

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 (modification of C.9 and C.10)

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 (modification of C.9 and C.10)

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 (modification of A.1, J.3, J.10)

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Below are additional competencies from the practicum not listed above:

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

Question	Response		
	Satisfactory	Marginal	Unsatisfactory

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

Signature