

Applied Epidemiology and Biostatistics Concentration (For Students Who Enrolled Prior to Fall 2020)

Applied Epidemiology and Biostatistics Concentration-Specific Competencies

Demonstrate proficiency in statistical programming
Demonstrate proficiency in common data analytic methods
Demonstrate proficiency in applied data analytic methods
Demonstrate proficiency in intermediate epidemiologic methods
Demonstrate proficiency in intermediate biostatistical methods

Students in the Applied Epidemiology and Biostatistics Concentration should complete Sequence 2 for the Biostatistics/Applied Data Analysis core requirement:

PHP2510, Principles of Biostatistics and Data Analysis
PHP2511, Applied Regression Analysis

If a student completes PHP2507/2508 before deciding on the Applied Epidemiology and Biostatistics Concentration, the student must meet with the concentration advisor and the MPH Program Director to request that PHP2507/2508 meet the core requirement for biostatistics. Based on an assessment of the student's background, course performance and knowledge base, PHP2507/2508 may be able to substitute.

Students in the Applied Epidemiology and Biostatistics Concentration must complete one of the following courses to fulfill the Epidemiology core requirement. However, PHP2150, Foundations in Epidemiologic Research Methods, is strongly recommended.

PHP2150, Foundations in Epidemiologic Research Method
PHP2120, Introduction to Methods in Epidemiologic Research

Applied Epidemiology and Biostatistics Concentration Courses

Complete the following courses:

PHP1560/2560, Statistical Programming in R
PHP2550, Practical Data Analysis

Complete one of the following applied data analysis courses:

PHP2118, Genomics Epidemiology
PHP2260, Applied Epidemiological Analysis Using SAS
PHP2410E, Medicare: A data based policy examination
PHP2430, Analysis of Population Based Datasets
PHP2440, Introduction to Pharmacoepidemiology
PHP2465A, Introduction to Health Decision Analysis

Complete one of the following intermediate epidemiology methods courses:

PHP2030, Clinical Trials Methodology
PHP2040, Survey Research Methods
PHP2180, Interpretation and Application of Epidemiology
PHP2200, Intermediate Methods in Epidemiologic Research

Complete one of the following intermediate biostatistics methods courses:

PHP2515, Fundamentals of Probability and Statistical Inference

PHP2530, Bayesian Statistical Methods
PHP2561, Methods in Informatics and Data Science for Health
PHP2602, Analysis of Lifetime Data
PHP2610, Causal Inference and Missing Data
PHP2620, Statistical Methods in Bioinformatics

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