MASTER OF PUBLIC HEALTH, BIOSTATISTICS CONCENTRATION

Curriculum

Code	Title	Credit Hours
CORE COURSES		
CPH 500	FOUNDATIONS OF PUBLIC HEALTH	3
CPH 504	EPIDEMIOLOGY IN PUBLIC HEALTH	3
CPH 506	BIOSTATISTICS	3
CPH 514	PLANNING AND EVALUATION	3
CPH 539	PUBLIC HEALTH: LEADERSHIP AND ADVOCACY	3
CONCENTRATION COURSES		
CPH 517	DESIGN OF MEDICAL HEALTH STUDIES	3
CPH 651	INTRODUCTION TO SAS PROGRAMMING	3
CPH 652	BIOSTATISTICAL LINEAR MODELS: METHODS AND APPLICATION	3
CPH 653	CATEGORICAL DATA ANALYSIS	3
ELECTIVE COURSES (9 credit hrs)		**9**
APPLIED PRACTICE AND INTEGRATIVE LEARNING EXPERIENCE		
CPH 528	APPLIED PRACTICE EXPERIENCE	3
CPH 529	CAPSTONE EXPERIENCE	3
Total Credit Hours		**42**

Admission Requirements

Admission requirements for the Master of Public Health program can be found here (https://catalog.unmc.edu/public-health/academic-programs/master-of-public-health/#mphadmissionrequirementstext).

Concentration Competencies
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BIOSMPH1	Employ effect size, sample size, and power calculations in the design or interpretation of studies as appropriate for the specific reserach questions and hypotheses.
BIOSMPH2	Apply appropriate statistical methods for estimation and inference, using a software package for data management, statistical analyses, and data presentation.
BIOSMPH3	Apply statistical methods for quality control and data cleaning to already collected data, verify assumptions of statistical tests and models, and implement appropriate methods to address any issues discovered.
BIOSMPH4	Develop written and oral presentations based on statistical findings for both public health professionals and lay audiences.
BIOSMPH5	Evaluate the strengths and limitations of study design and statistical analyses of public health and biomedical studies.
BIOSMPH6	Communicate ethical considerations in research, study design, and data handling, analysis, and interpretation.