

## Vanderbilt Health Policy PhD Program

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### Core Courses

- EPID 8311: Epidemiologic Theory and Methods I (4)
- BIOS 6311, 6311L: Principles of Modern Biostatistics (4)
- PUBH 5520: Health Policy I (2)
- PUBH 5538: Policy and Program Evaluation (3)
- PUBH XXXX: Health Policy II (2)
- ECON 9480: Health Economics (3)
- EDU 8820: Qualitative Methods (3)
- PUBH XXXX: Administrative Data Research (3)
- PUBH XXXX: Health Policy Seminar (3)
- PUBH XXXX: Proposal Writing (3)
- PUBH XXXX: Health Policy Research Seminar (2)
- PUBH XXXX: Dissertation (3)

### Epidemiology Sequence

- BIOS 6312, 6312L: Modern Regression Analysis (4)
- EPID 8312: Epidemiology Theory and Methods II (4)
- EPID 8310: Causal Inference (3)

### Biostatistics Sequence

- BIOS 6312, 6312L: Modern Regression Analysis (4)
- BIOS 6341, 6341L: Fundamentals of Probability (4)
- BIOS 6342, 6342L: Contemporary Statistical Inference (3)

### Social Sciences Sequence

- LPO 8851: Regression Analysis I (3)
- LPO 8852: Regression Analysis II (3)
- LPO 7810: Causal Inference (3)

### Example of Electives (9-11 credits)

Below is list of potential elective courses for students in the Health Policy PhD program. Enrollment in these classes would be subject to approval from the instructor and the PhD Program Director.

#### Vanderbilt University School of Law

LAW 7214 - Health Care Fraud and Abuse

LAW 7216 - Health Law and Policy

LAW 8076 - Health Policy

LAW 9076 - Health Policy Seminar

#### Owen School of Management

MGT 6012 - Health Care Quality Improvement

MGT 6015 - Health Care Delivery Organizations

MGT 6473 - Health Care Operations

MGT 6501 - Health Care Immersion

MGT 6504 - Health Care Economics and Policy

MGT 6506 - Health Care Law and Regulation

MGT 6509—Health Care Data Analysis

#### Graduate School / College of Arts and Sciences

ANTH 6343 - Biology and Culture of Race<sup>i</sup>

ANTH 8201 - Advanced Spatial Analysis<sup>ii</sup>

BIOS 6321 - Clinical Trials and Experimental Design<sup>2</sup>

BIOS 6341 - Fundamentals of Probability<sup>2</sup>

BIOS 6342 - Contemporary Statistical Inference<sup>2</sup>

BIOS 7323 - Applied Survival Analysis<sup>2</sup>

BIOS 7330 - Regression Modeling Strategies<sup>2</sup>

BIOS 7345 - Advanced Regression Analysis I<sup>2</sup>

BIOS 7346 - Advanced Regression Analysis II<sup>2</sup>

BIOS 7351 - Statistical Collaboration in Health Sciences I<sup>2</sup>

BIOS 7361 - Advanced Concepts in Probability and Real Analysis for Biostatisticians<sup>1,2</sup>

BIOS 7362 - Advanced Statistical Inference<sup>2</sup>

BIOS 8366 - Advanced Statistical Computing<sup>2</sup>

BIOS 8370 - Foundations of Statistical Inference<sup>2</sup>

BIOS 8372 - Bayesian Methods<sup>2</sup>

BME 7410 - Quantitative Methods in Biomedical Engineering<sup>1,2</sup>

EPID 8321 - Applied Epidemiologic Methods in Regression I: Binary Data<sup>2</sup>

EPID 8323 - Epidemiologic Methods: Design and Analysis with Time-to-Event Data<sup>2</sup>

EPID 8331 - Seminar in Quantitative Methods and Measurement<sup>2</sup>

EPID 8332 - Advanced methods for Epidemiology<sup>2</sup>

ECON 5250 - Industrial Organization

ECON 8300 - Statistical Analysis

ECON 8310 - Econometrics I<sup>2</sup>

ECON 8320 - Econometrics II<sup>2</sup>

ECON 9310 - Time Series Econometrics<sup>2</sup>

ECON 9320 - Non-parametric and Semi-parametric Econometrics<sup>2</sup>  
ECON 9330 - Microeconometrics  
ECON 9490 - Health Economics  
MATH 5640 - Probability<sup>1,2</sup>  
MHS 7314 - Global Health Politics and Policy  
MHS 7317 - Introduction to Quality Improvement  
NRSC 8306 - Research Design and Statistics I<sup>2</sup>  
NRSC 8307 - Research Design and Statistics II<sup>2</sup>  
NRSC 8308 - Research Design and Statistics III<sup>2</sup>  
NRSC 8309 - Special Topics in Quantitative Methods<sup>2</sup>  
PSY 8120 - Categorical Data Analysis<sup>2</sup>  
PSY 8305 - Linear and Nonlinear Mixed Effects Models<sup>2</sup>  
SOC 6311 - Statistics (Multivariate Analysis I)<sup>2</sup>  
SOC 6312 - Statistics (Multivariate Analysis II)<sup>2</sup>  
SOC 7600 - Quantitative Methods Workshop<sup>2</sup>  
PSCI 8355 - Research Design<sup>2</sup>  
PSCI 8356 - Statistics for Political Research I<sup>2</sup>  
PSCI 8357 - Statistics for Political Research II<sup>2</sup>  
PSY 8861 - Statistical Inference<sup>2</sup>  
PSY 8870 - Correlation and Regression<sup>2</sup>  
PSY 8873 - Structural Equation Modeling<sup>2</sup>  
PSY 8879 - Factor Analysis<sup>2</sup>  
PSY 8882 - Multilevel Modeling<sup>2</sup>  
PSY 8885 - Applied Latent Class and Mixture Modeling<sup>2</sup>

#### Peabody College

HOD 3510 - Survey of Preventive Interventions  
HOD 3500 - Community Health Theory and Practice  
HOD 6200 - Program Evaluation<sup>2</sup>  
LPO 7860 - Research Design and Data Analysis I<sup>2</sup>  
LPO 7870 - Research Design and Data Analysis II<sup>2</sup>  
LPO 8852 - Regression II<sup>2</sup>

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<sup>i</sup> May require special permission from PhD Program Director

<sup>ii</sup> Methods course