The Epidemiology (Epi) PhD program trains students to examine public health trends, design and implement studies, interpret study results for policy and program development, and analyze significant public health problems. There are two tracks within the Epidemiology PhD Program – Social and Behavioral Track and Clinical and Biological Track. The program requires a minimum of 61 credits.

**REQUIRED CORE COURSES**

14-16 CREDITS PLUS 24 THESIS CREDITS

- PubH 8341 Advanced Epidemiologic Methods: Concepts (3 cr)
- PubH 8342 Advanced Epidemiologic Methods: Applications (3 cr)
- PubH 7401 Fundamentals of Biostatistical Inference (4 cr)
- PubH 6348 Writing Research Grants (2 cr)
- PubH 6742 Ethics in Public Health: Research and Policy (1 cr)
- PubH 8888 Thesis Credits (24 cr)
- GRAD 8101 Teaching in Higher Education (3 cr) or GRAD 8200 Teaching and Learning Topics in Higher Education: Teaching for Learning (1 cr)

**SOCIAL AND BEHAVIORAL TRACK**

23 CREDITS

- Behavioral Methods/Statistics - 6 Credits minimum:
  - PubH 7420 Required: Clinical Trials: Design, Implementation, and Analysis (3 cr) or
  - PubH 6363 Design and Analysis of Cluster-Randomized Trials in Epidemiology I (3 cr)
- PubH 7402 Biostatistical Modeling and Methods (4 cr)
- PubH 7430 Statistical Methods for Correlated Data (3 cr)
- PubH 7405 Biostatistics: Regression (4 cr)
- PubH 7406 Advanced Regression and Design (4 cr)
- PubH 6915 Nutrition Assessment (2 cr)
- PubH 8300 Advanced Epidemiologic Methods Workshop (1 cr)
- PubH 8343 Synthesis and Application of Methods in Epidemiologic Research (4 cr)
- PubH 8804 Advanced Quantitative Methods Seminar (3 cr)

**ELECTIVES**

13 CREDITS

- PubH 6370 Social Epidemiology (2 cr)
- PubH 7391 Independent Study: Epidemiology (1-4 cr)
- PubH 7392 Readings in Epidemiology (1-4 cr)
- PubH 6381 Genetics in Public Health (2 cr)
- PubH 6385 Epidemiology and Control of Infectious Disease (2 cr)
- PubH 6386 Public Health Aspects of Cardiovascular Disease (2 cr)
- PubH 6387 Cancer Epidemiology (2 cr)
- PubH 6078 Public Health Policy as a Prevention Strategy (2 cr)
- PubH 6074 Mass Communication and Public Health (3 cr)

**CLINICAL AND BIOLOGICAL TRACK**

23 CREDITS

- Biological Methods/Statistics - 6 Credits minimum:
  - PubH 7420 Required: Clinical Trials: Design, Implementation, and Analysis (3 cr) or
  - PubH 6363 Design and Analysis of Cluster-Randomized Trials in Epidemiology I (3 cr)
- PubH 7430 Statistical Methods for Correlated Data (3 cr)
- PubH 7405 Biostatistics: Regression (4 cr)
- PubH 7406 Advanced Regression and Design (4 cr)
- PubH 6915 Nutrition Assessment (2 cr)
- PubH 7445 Statistics for Human Genetics and Molecular Biology (3 cr)
- PubH 8141 Doctoral Seminar in Observational Inference (2 cr)
- PubH 8300 Advanced Epidemiologic Methods Workshop (1 cr)
- PubH 8343 Synthesis and Application of Methods in Epidemiologic Research (4 cr)
- PubH 7402 Biostatistical Modeling and Methods (4 cr)
- PubH 8804 Advanced Quantitative Methods Seminar (3 cr)

**Content Area Courses - 4 Credits:**

- PubH 6386 Public Health Aspects of Cardiovascular Disease (2 cr)
- PubH 6387 Cancer Epidemiology (2 cr)
- PubH 6385 Epidemiology and Control of Infectious Diseases (2 cr)
- PubH 6381 Genetics in Public Health (2 cr)
- PubH 6389 Nutritional Epidemiology (2 cr)
- PubH 6140 Occupational and Environmental Epidemiology (2 cr)

**ELECTIVES**

13 CREDITS

- PubH 8300 Advanced Epidemiologic Methods Workshop (1 cr)
- PubH 8343 Synthesis and Application of Methods in Epidemiologic Research (4 cr)
- PubH 6355 Pathophysiology of Human Disease (4 cr)
- VMed 5180 Ecology of Infectious Diseases (3 cr)
- PubH 7405 Biostatistics: Regression (4 cr)
- PubH 7406 Advanced Regression and Design (4 cr)
- PubH 7430 Statistical Methods for Correlated Data (3 cr)
- PubH 7445 Statistics for Human Genetics and Molecular Biology (3 cr)
- PubH 7450 Survival Analysis (3 cr)
- VMed 8090 Epidemiology of Zoonoses (2 cr)