POPH 001 Introduction to Population Health 4 Credits
Despite significant advances in medicine and public health, inequities in health persist. Understanding health on a population level is an approach that seeks to improve the health of the whole population, unravel variations in health outcomes, and to identify effective strategies for reducing or eliminating inequities. The purpose of this course is to provide students with an understanding of: 1) how population health defined and measured; and 2) the determinants of population health (from cell to society).

POPH 002 Population Health Research Methods & Application 4 Credits
This course provides students with fundamental principles of research methods relevant to population health and the translation of research into practice. Through this course, we will review a range of study designs, including experimental and observational studies, mixed methods, and comparative qualitative case study methods. In addition, students will obtain the skills needed to translate research into practice for multiple stakeholder groups.

Prerequisites: POPH 001

Repeat Status: Course may be repeated.

POPH 010 Seminar: Population Health 1 Credit
This one-credit special topics seminar will focus on the development of Population Health relevant skills in the areas of communication, professional development, mentorship and leadership, proposal development, policy and advocacy and community engagement and collaborations.

Repeat Status: Course may be repeated.

POPH 012 Seminar: Ethics in Population Health 1 Credit
This course will introduce students to ethical concepts and critical issues pertaining to the ethical inclusion of human subjects in population health research. This course will provide opportunities for writing about, discussion of, and case-based learning around current and historical perspectives on population health research. During this course, students will complete the necessary training for conducting human subjects research at Lehigh University.

Repeat Status: Course may be repeated.

POPH 101 History of Population Health 3 Credits
This course introduces students to the development of population health as a convergent science. Students will learn about the evolution of population health interests, normative beliefs in service delivery, and policy at the international and domestic level. The principles, ethical values and services enforced by law will be learned. Students will explore the initiatives, collectively achieved among various sectors, addressing the determinants of health. We conclude by addressing future population health challenges, such as the environment, non-communicable diseases, and inequalities.

Repeat Status: Course may be repeated.

POPH 103 Biological Basis of Population Health 4 Credits
How do social, economic, environmental determinants bring about diseases in groups of human beings? This course will survey the methods of investigating the biological mechanisms underlying human health outcomes. Students will explore investigation of human diseases using emerging and traditional tools in genomic, molecular, immunological, and environmental fields. Students will also be expected to deepen their awareness of individual/group susceptibility, and propose societal approaches to intervention and prevention of human diseases.

Repeat Status: Course may be repeated.

POPH 105 Introduction to Maternal and Child Population Health 4 Credits
The course introduces the student to the Maternal and Child Health field. Students will examine the multi-dimensional determinants of maternal and child health issues using a Life Course approach. Students will also explore the roles of research, programs, policy, and advocacy in the reduction of maternal and child health disparities.