

# Public Health

**MAJOR, MINOR**

**PROFESSORS:** Bonnie Bowers (psychology), LeeRay Costa (gender and women's studies), Renee Godard (biology), Bansi Kalra (chemistry), Edward A. Lynch (political science), Darla Schumm (religious studies), Morgan Wilson (biology)

**ASSOCIATE PROFESSORS:** Rebecca Beach (biology), Jon D. Bohland (international studies), Vladimir Bratic (communication), Julie Clark (mathematics), Pablo Hernandez (economics), Lori Joseph (communication), William Krause (music), Rachel Nuñez (history), Pauline Kaldas (English)

**ASSISTANT PROFESSORS:** Mary Jane Carmichael (biology), Brian Gentry (physics), Elizabeth Gleim (biology), Genevieve Hendricks (art), Abubakarr Jalloh (public health), Son Nguyen (chemistry)

**VISITING ASSISTANT PROFESSORS:** Charles Lowney (philosophy);

The study of public health is an interdisciplinary endeavor that teaches students to recognize, assess, and address various issues of health on individual, community, and global levels. The interdisciplinary nature of the major allows students to build an integrated approach to health issues by combining sociocultural disciplines with the natural sciences. Students completing an undergraduate degree in public health can be employed in a variety of entry-level positions in both the public and private sector. Prospective job titles include health educator, community health worker, environmental health specialist, public policy writer, emergency preparedness specialist, and coordinator of health initiatives. A Master's in Public Health degree will allow a student to advance in her career. The Hollins public health program is specifically designed with a core that builds a foundation of knowledge in public health and a slate of electives that allows students to build their own paths of specialty study. Working with the program director, they will construct generalized programs, programs focused on socio-cultural perspectives, or programs anchored in the natural sciences.

## REQUIREMENTS FOR A MAJOR IN PUBLIC HEALTH

11 courses (42 – 48 credits) including 5 core courses and one internship

### REQUIRED COURSES (20)

- PH 101: Introduction to Public Health (4)
- STAT 140: Introduction to Statistics (4)
- PH 201: Epidemiology (4)
- PH 301: Global Health (4)
- PH 470: Senior Seminar (4)

### INTERNSHIP (2 or 4)

- One internship completed during any term. Credits may vary depending on when a student chooses complete the field experience. Academic component of supervised field experience in public health: students attend a weekly seminar to discuss readings linking research and practice, complete an independent project that builds on the internship, and develop presentations of their work. Application must be made with faculty prior to registration.

### SIX ADDITIONAL AFFILIATED COURSES (22-24)

- At least two (2) at 300-level, no more than two (2) courses from one department.

### AFFILIATED COURSES:

- ART 175: Introduction to Arts Administration
- ART 176: Philanthropy and the Arts
- BIOL132: Human Biology
- BIOL 140: Human Genetics
- BIOL 220: Human Physiology
- BIOL 312: Microbiology
- BIOL 314: Genetics
- BIOL/ES 117: Environmental Science
- BIOL/ES 207: Ecology
- BIOL/ES 240: Special Topic: One Health-Linking Human, Animal and Environmental Health
- BIOL/ES 316: Special Topic: Wildlife Disease
- BIO/ES 357: Conservation Biology and Lab

- BIO/PSY 317: Biological Psychology
- BLI 210: Conflict, Feedback, and Change
- BLI 220: Decision Making Strategies
- CHEM 214: Analytical Chemistry
- CHEM 221: Organic Chemistry
- CMPS 245: Data Science and Visualization
- COMM 208: Qualitative Methods
- COMM 225: Public Speaking
- COMM 238: Argumentation and Advocacy
- COMM 244: Social Marketing
- COMM 270: Intercultural Communication
- COMM 344: Health Communication
- ECON 157: Principles of Microeconomics
- ECON 241: The Economics of Social Issues
- ECON 254: The Economics of Health Care
- ECON 261: Public Finance
- ECON/ES 230: Economics and the Environment
- ENG 174: International Women's Voices
- ENG 211: Multicultural Women Writers
- ENG 320: Immigrant Literature
- ENG 346: Arab American Literature
- ANTH/ES/GWS 219: Food, Culture and Justice
- ES/INTL 210: World Geography
- ES/INTL 304: Geography of the Global Environment
- ES/PHIL 182: Environmental Ethics
- ES/POLS 234: Environmental Politics and Policy
- GWS 141: Introduction to Gender and Women's Studies
- GWS/ANTH 242: Anthropology of Gender and Sexuality
- GWS/HIST 310: The Body and Sexuality in Europe
- GWS/REL 281: Religion and Disability
- GWS/REL 318: Sexual Ethics
- GWS/SOC 250: Special Topic: Whiteness
- INTL/POLS 302: Comparative Urbanism
- MUS/PSY 150: Special Topic: Arts in Health
- PHIL 181: Contemporary Moral Issues
- PHIL 253: Biomedical Ethics
- POLS 255: State and Local Government
- PSY 204: Social Psychology
- PSY 215: Motivation and Emotion
- PSY 237: Children and Media
- PSY 342: Principles of Abnormal Behavior
- REL 126: Introduction to Religion
- REL 212: Christian Traditions
- REL 215: Women in Judaism, Christianity and Islam
- REL 217: Islamic Traditions
- REL 218: Buddhist Traditions
- REL 219: Jewish Traditions
- REL 223: Women in Buddhism
- SOC 234: Social Problems

**REQUIREMENTS FOR A MINOR IN PUBLIC HEALTH:**

6 courses (22 – 24 credits)

- PH 101: Introduction to Public Health
- PH 201: Epidemiology
- STAT 140: Introduction to Statistics
- PH 301: Global Health
- Two (2) courses from the list affiliated courses with at least one at 300-level

**COURSES IN PUBLIC HEALTH:****PH 101: INTRODUCTION TO PUBLIC HEALTH (4)****Jalloh**

Public health, founded on the principle of social justice, is the science of improving the health of all individuals in a community. In this introductory course, students will learn about the history of public health, the tools we use to improve the public's health, and the structure of the U.S. public health system. Students will then apply what they learn to better understand the state of health in the United States and current controversies in public health. Open to first-year students. Offered both terms.

**PH 201: EPIDEMIOLOGY (4)****Department**

This course analyzes the distribution, determinants, and prevention of disease, disability, and premature death in populations. It includes a quantitative analysis of the biological, social, economic, and environmental conditions that affect health, as well as an examination of potential bias in studies. Pre-requisites: PH 101 and Stat 140 or equivalent. Open to first-year students. Offered Term 2.

**PH 240: ONE HEALTH: LINKING HUMAN, ANIMAL, AND ENVIRONMENTAL HEALTH (4)****Gleim**

Nearly two-thirds of all human infectious diseases are transmissible to animals and vice versa. One Health is a world-wide movement which focuses on the intersectionality of human, animal, and environmental health and how interdisciplinary efforts can be made to better study and solve these problems. This seminar-based course will take a case study approach to explore concepts and approaches integral to One Health. Key diseases and issues related to human, animal, and environmental health for which this approach could or has been utilized will be explored along with its associated peer-reviewed literature. This course is specifically targeted towards pre-health, pre-vet and public health students, along with students interested in field biology and environmental science. Also listed as BIOL/ES 240. Pre-requisites: BIOL/ES 207/207L, BIOL 236/236L, or permission. Not offered in 2020-21.

**PH 250: SPECIAL TOPIC: SOCIAL DETERMINANTS OF HEALTH****Jalloh**

Social circumstances influence the health and well-being of individuals and communities. This course fosters an understanding of micro and macro determinants that result in racial/ethnic and socio-economic differences in health outcomes. Determinants include income, wealth, education, social status, social stressors, and social-physical environments, among others. Students will learn about the social conditions impacting individual and community health. Offered Term 2.

**PH 290: INDEPENDENT STUDY (2 or 4)****Department**

Independent study conducted below the advanced level. Application must be made with faculty prior to registration. Offered any term.

**PH 301: GLOBAL HEALTH (4)****Jalloh**

This course expands ideas introduced in Introduction to Public Health and Epidemiology to infectious and chronic disease in terms of global prevalence. It considers case studies and theory and methods about health from a multidisciplinary perspective. Students explore the relation of biological, economic, political, cultural, and behavior factors to disease spread and management. Pre-requisites: PH 101 and PH 201. Offered Term 1.

**PH 316: WILDLIFE DISEASE (4)****Gleim**

This lecture/lab course will provide a general understanding of disease ecology and examine both common and newly emerging diseases that impact wildlife. We'll also examine the roles these diseases play in population regulation, game management, conservation of rare and endangered species, and how they can affect human and domestic animal health. Lab components of the course will involve both field and laboratory-based experiences involved in routine testing of wildlife and/or vectors for pathogens. This course cannot count as a 300-level laboratory course for the biology major. Also listed as BIOL/ES 316. Prerequisite: BIOL/ES 207 and lab, and BIOL 236. Prerequisite: sophomore standing. Offered Term 2.

**PH 390: INDEPENDENT STUDY (2 or 4)****Department**

Independent study conducted at the advanced level. Application must be made with faculty prior to registration. Offered any term.

**PH 399: INTERNSHIP (2 or 4)****Department**

Academic component of supervised field experience in Public Health. Students attend a weekly seminar to discuss readings linking research and practice, complete an independent project that builds on the internship, and develop presentations of their work. Application must be made with faculty prior to registration. May be proposed any term.

**PH 470: SENIOR SEMINAR (4)****Department**

This course guides students through the process of public health intervention design, from needs assessment to evaluation. Students work in groups mentored by the course instructor to develop and pilot research instruments and study protocols, simulating public health working environments. Prerequisite: PH 301