PUBLIC HEALTH SCIENCE MAJOR

The Public Health Science Bachelor of Science degree is an interdisciplinary program designed to provide students with the educational foundation required to effectively address local, national and global issues within the public health arena. As a collaborative degree involving multiple scholarly disciplines, courses offered by this program may be found under the following acronyms: PHSC, SPHL, HLTH, KNES, EPIB, MIEH and HLSA.

The degree effectively prepares students to pursue exciting careers in allied health, medical, and public health fields as well as post-baccalaureate professional and academic degrees.

The degree is offered at both the College Park and Shady Grove campuses.

Program Objectives

The Public Health Science Bachelor of Science degree is an interdisciplinary program designed to provide students with the educational foundation required to effectively address local, national and global issues within the public health arena.

Program Learning Outcomes

1. Discuss the history and philosophy of public health as well as its core values, concepts, and functions across the globe and in society.
2. Use basic public health concepts, methods, and tools for data collection and analysis.
3. Identify the major health-related needs and concerns of populations and formulate basic processes, approaches, and interventions as possible solutions.
4. Describe the underlying science of human health and disease including opportunities for promoting and protecting health across the lifespan.
5. Examine the socio-economic, behavioral, biological, environmental and other factors that impact human health and contribute to health disparities.
6. Demonstrate the fundamental concepts and features of project implementation, including planning, assessment, and evaluation.
7. Compare and contrast the fundamental characteristics and organizational structures of the health systems of the United States and other countries.
8. Characterize the basic concepts of legal, ethical, economic, and regulatory dimensions of health care and public policy.
9. Illustrate the basic concepts of public health specific writing and communication.
10. Interpret and synthesize scientific knowledge to propose evidence-based approaches and solutions to public health problems.

Requirements

In order to graduate with a Bachelor of Science degree in Public Health Science, students must complete 120 credits, 74 of which are specific to the Public Health Science degree. Students must earn a minimum grade of C- or higher in all Public Health Science major-required coursework.

Select from the following:

Course | Title | Credits
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MATH120 | Elementary Calculus I | 3
BSCI170 & BSCI171 | Principles of Molecular & Cellular Biology and Principles of Molecular & Cellular Biology Laboratory | 4
BSCI201 | Human Anatomy and Physiology I | 4
BSCI202 | Human Anatomy and Physiology II | 4
CHEM131 & CHEM132 | Chemistry I - Fundamentals of General Chemistry and General Chemistry I Laboratory | 4
CHEM231 & CHEM232 | Organic Chemistry I and Organic Chemistry Laboratory I | 4
PHSC422 | Principles of Genetics | 4
PHSC423 | General Microbiology | 4
SPHL100 | Foundations of Public Health | 3
HLTH366 | Behavioral and Community Issues in Public Health | 3
EPIB301 | Epidemiology for Public Health Practice | 3
EPIB315 | Biostatistics for Public Health Practice | 3
HLSA300 | Introduction to Health Policy and Services | 3
PHSC400 | A Public Health Perspective: Introduction to Environmental Health | 3
PHSC400 | Introduction to Global Health | 3
KNES320 | Physiological Basis of Physical Activity and Human Health | 4
PHSC415 | Essentials of Public Health Biology: The Cell, The Individual, and Disease | 3
PHSC497 | Public Health Science Capstone | 3

Public Health Science Options Courses

Select from the following:

Course | Title | Credits
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EPIB330 | The Coming Plague: Public Health Perspectives | 3
EPIB400 | Obesity: An Epidemiologic Perspective | 3
FGSM320 | Public Health Policy | 3
FMSC310 | Maternal, Child and Family Health | 3
FMSC460 | Violence in Families | 3
HLTH371 | Communicating Safety and Health | 3
HLTH377 | Human Sexuality | 3
HLTH424 | Lesbian, Gay, Bisexual & Transgender Health | 3
HLTH434 | Introduction to Public Health Informatics | 3
HLTH460 | Minority Health | 3
HLTH471 | Women's Health | 3
HLSA484 | Redesigning Health Care: Developing a Clinic to Meet Community Needs | 3
KNES460 | Physiology of Aging and the Impact of Physical Activity | 3
KNES461 | Exercise and Body Composition | 3
MIEH309 | Environmental Health Research | 3
MIEH321 | Syphilis to SARS: Climate Change, Development and Emergence of Infectious Diseases | 3
MIEH330 | Environmental Justice, Racism, and Environmental Health Disparities: How where you live can kill you | 3
MIEH331 | The Built Environment, Sustainability, and Public Health: The Good, the Bad, and the Ugly | 3
MIEH333 | Unit
### Four Year Plan

Click here (http://sph.umd.edu/content/four-year-plans) for roadmaps for four-year plans in the School of Public Health.

Additional information on developing a four-year academic plan can be found on the following pages:

- 4yearplans.umd.edu
- the Student Academic Success-Degree Completion Policy (https://academiccatalog.umd.edu/undergraduate/registration-academic-requirements-regulations/academic-advising) section of this catalog