PUBLIC HEALTH SCIENCE AT
SHADY GROVE

The Universities at Shady Grove
University of Maryland
Public Health Science Program
9636 Gudelsky Drive
Building III
Rockville, MD 20850
301-738-6165
jhodgson@umd.edu
Shady Grove: go.umd.edu/phsc-sg (http://go.umd.edu/phsc-sg/)

Program Director: Jennifer Hodgson, MPH

The Public Health Science program includes a strong curriculum in science and public health courses, such as biostatistics, epidemiology, environmental health, and global health. Students will have the opportunity for individual exploration in public health through electives, laboratory experiences, optional internships, and a culminating interdisciplinary capstone course. 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

For full details of degree requirements, please view the Shady Grove curriculum online at: http://sph.umd.edu/department/phssg/shady-grove-curriculum (http://sph.umd.edu/department/phssg/shady-grove-curriculum/).

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.

Course | Title | Credits
--- | --- | ---
Scientific Foundation Courses
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
BSCI222 | Principles of Genetics | 4
BSCI223 | General Microbiology | 4
Public Health Science Foundation Courses
HLTH366 | Behavioral and Community Issues in Public Health | 3
PHSC300 | Foundations of 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
MIEH300 | A Public Health Perspective: Introduction to Environmental Health | 3
MIEH400 | 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 | 12
Total Credits | 74
The Public Health Science option courses build upon the Scientific and Public Health Science Foundation courses. The option courses are 300 and 400 level courses primarily offered within the School of Public Health. By choosing from these courses, students have an opportunity to customize their program. Students are encouraged to choose courses that best align with a particular career goal. Please visit the PHSC website for the current list of approved options: https://sph.umd.edu/department/phs/college-park-curriculum-post-spring-2018 (https://sph.umd.edu/department/phs/college-park-curriculum-post-spring-2018/)

Advising
Major academic advising is mandatory for Public Health Science students at Shady Grove each semester. Academic advising is by appointment only and can be scheduled at: go.umd.edu/phscadvising (http://go.umd.edu/phscadvising/)

Opportunities
Student opportunities
Public Health Science majors are encouraged to participate in opportunities within the major, including research, internships, and study abroad. For more information on research opportunities for Public Health Science majors, please see the Research Credit: Public Health Science webpage: go.umd.edu/phscresearch (http://go.umd.edu/phscresearch/). For more information on internship opportunities for Public Health Science majors, please see the Internship Credit: Public Health Science webpage: go.umd.edu/phscintern (http://go.umd.edu/phscintern/). For more information on study abroad opportunities for Public Health Science majors, please see the Study Abroad: Public Health Science webpage: https://go.umd.edu/PHSCabroad (https://go.umd.edu/PHSCabroad/).

Public Health Science majors are also invited to participate in a wide variety of student opportunities across the School of Public Health.

Financial Assistance, scholarships, & Awards
The Public Health Science program, School of Public Health, and the University of Maryland offer opportunities for financial assistance, scholarships, and awards based on merit and need.

For a listing of awards and scholarships, please see the Awards and Scholarships: Public Health Science webpage: https://go.umd.edu/PHSCawards (https://go.umd.edu/PHSCawards/).

Four Year Plan
Roadmaps for all four-year plans can be found here (http://4yearplans.umd.edu). Select the College of your major to find the corresponding roadmap.

For more information on developing a four-year academic plan, please refer to the Student Academic Success-Degree Completion Policy (https://academiccatalog.umd.edu/undergraduate/registration-academic-requirements-regulations/academic-advising/) section of this catalog.