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

To view the coursework described below, please visit our PHSC curriculum page (https://sph.umd.edu/academics/departments-units/public-health-science/student-resources-public-health-science/curriculum-public-health-science-college-park/).

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH120</td>
<td>Elementary Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>BSCI1170 &amp; BSCI1171</td>
<td>Principles of Molecular &amp; Cellular Biology and Principles of Molecular &amp; Cellular Biology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BSCI201</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BSCI202</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM131 &amp; CHEM132</td>
<td>Chemistry I - Fundamentals of General Chemistry and General Chemistry I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM231 &amp; CHEM232</td>
<td>Organic Chemistry I and Organic Chemistry Laboratory I</td>
<td>4</td>
</tr>
<tr>
<td>BSCI222</td>
<td>Principles of Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BSCI223</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
</tbody>
</table>

Public Health Science Foundation Courses

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 |
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

Total Credits | 74 |

1 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-
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 (http://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