

# Spring 2025 - Public Health Science Major Course Offerings

The following courses are expected to be offered at the University of Maryland this spring semester. It is the student’s responsibility to check course prerequisites and restrictions. Note that offerings, modality and location are subject to change. For details, see:

- Schedule of Classes at <https://app.testudo.umd.edu/soc/>
- [UMD 2024-2025 Registration Guide](#) (.pdf)

*Not sure which courses you need?*

- **Public Health Science major curriculum (College Park):** <https://sph.umd.edu/phsclasses>
  - [PHSC Major Checklist](#) and [PHSC Foundation Course Progression Chart](#)
- **PHSC Advising:** [go.umd.edu/PHSCadvising](http://go.umd.edu/PHSCadvising) - Drop-in, chat, or schedule a meeting
- [SPH Academic Policies and Exceptions](#)
- [UMD Degree Audit](#) - help for students

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## Spring 2025 course offerings by major category

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## PHSC Scientific Foundation Courses

You do not have to be a Public Health Science major to enroll in these courses, but note that prerequisites and restrictions are strictly enforced.

<b>PHSC: SCIENTIFIC FOUNDATIONS - SPRING 2025</b>			
<i>Course Number [Gen Ed]</i>	<i>Course Titles (Prerequisites)</i>	<i>Credits</i>	<i>Open Seats</i>
<b>*** MATH120 [FSMA]</b>	Calculus (Pre-Req: MATH120 eligibility)	3	<a href="#">Sp25 MATH120</a>
<b>* BSCI170</b>	Principles of Molecular & Cellular Biology (Pre-Req: MATH 120 eligibility)	3	<a href="#">Sp25 BSCI170</a>
<b>* BSCI171 [DSNL]</b>	Principles of Molecular & Cellular Biology Lab (Pre-Req: MATH 120 eligibility)	1	<a href="#">Sp25 BSCI171</a>
<b>BSCI201</b>	Human Anatomy and Physiology I (Pre-Req: BSCI170/171)	4	<a href="#">Sp25 BSCI201</a>
<b>BSCI202</b>	Human Anatomy and Physiology II (Pre-Req: BSCI201)	4	<a href="#">Sp25 BSCI202</a>
<b>BSCI222</b>	Principles of Genetics (Pre-Req: BSCI170/171 and CHEM131/132 and CHEM231/232)	4	<a href="#">Sp25 BSCI222</a>
<b>BSCI223 [SCIS]</b>	General Microbiology (Pre-Req: BSCI170/171)	4	<a href="#">Sp25 BSCI223</a>
<b>* CHEM131</b>	Chemistry I - Fundamentals of General Chemistry (Pre-Req: MATH 120 eligibility)	3	<a href="#">Sp25 CHEM131</a>
<b>* CHEM132 [DSNL]</b>	General Chemistry I Laboratory (Pre-Req: MATH 120 eligibility)	1	<a href="#">Sp25 CHEM132</a>
<b>** CHEM231</b>	Organic Chemistry I (Pre-Req: C- in CHEM131 and 132)	3	<a href="#">Sp25 CHEM231</a>
<b>** CHEM232</b>	Organic Chemistry Laboratory I (Pre-Req: C- in CHEM131 and 132)	1	<a href="#">Sp25 CHEM232</a>

\* Benchmark 1 - must pass with a C- or higher by the end of your 2nd semester in the PHSC major

\*\* Benchmark 2 - must pass with a C- or higher by the end of your 2nd semester in the PHSC major

\*\*\* Benchmark 3 - must pass with a C- or higher by the end of your 4th semester in the PHSC major (must have attempted FSMA GenEd by 30 credits)

## PHSC Public Health Science Foundation Courses

*Restricted to current Public Health Science majors - Prerequisites are strictly enforced.*

<b>PHSC: PUBLIC HEALTH SCIENCE FOUNDATIONS - SPRING 2025</b>				
<b>Course Number [Gen Ed]</b>	<b>Course Titles</b>	<b>Credits</b>	<b>Open Seats</b>	
<b>SPHL100</b>	Foundations of Public Health	3	<a href="#">Sp25 SPHL100</a>	
<b>EPIB301</b>	Epidemiology for Public Health Practice (Pre-Req: 45+ credits)	3	<a href="#">Sp25 EPIB301</a>	
<b>EPIB315 [FSAR]</b>	Biostatistics for Public Health Practice (Pre-Req: 45+ credits; EPIB301)	3	<a href="#">Sp25 EPIB315</a>	
<b>HLTH366</b>	Behavioral and Community Issues in Public Health (Pre-Req: 45+ credits; ANTH260, HLTH130, HLTH230, PSYC100, SOCY100, or SOCY105)	3	<a href="#">Sp25 HLTH366</a>	
<b>HLSA300</b>	Introduction to Health Policy and Services (Pre-Req: 60+ credits; SPHL100 completed or concurrent)	3	<a href="#">Sp25 HLSA300</a>	
<b>KNES320</b>	Physiology of Exercise (Pre-Req: BSCI201 and BSCI202)	4	<a href="#">Sp25 KNES320</a>	
<b>MIEH300</b>	A Public Health Perspective: Introduction to Environmental Health (Pre-Req: 60+ credits; CHEM131/132; SPHL100 completed or concurrent)	3	<a href="#">Sp25 MIEH300</a>	
<b>PHSC415</b>	Essentials of Public Health Biology: The Cell, The Individual, and Disease (Pre-Req: 60+ credits; BSCI201, BSCI202)	3	<a href="#">Sp25 PHSC415</a>	
<b>PHSC450** [DVUP]</b>	Addressing Social and Structural Inequities Through Public Health (Pre-Req: 60+ credits; MIEH300 and SPHL100)	3	<a href="#">Sp25 PHSC450</a>	
<b>PHSC497 [DSSP]</b>	Public Health Science Capstone (Pre-Req: 100+ credits; FSPW and PHSC450)	3	<a href="#">Sp25 PHSC497</a>	

\*\* As of summer 2023, PHSC450 replaced MIEH400. See [FAQs about this curriculum change](#).

## PHSC Public Health Science Options Courses

We expect the following courses approved as Public Health Science Options will be offered Spring 2025. Descriptions, schedules and locations for each course can be found on the [Schedule of Classes](#).

### Spring 2025 - ALL APPROVED Public Health Science Options

<i>Course Number and Title (GenEd)</i>	<i>Prerequisites</i>	<i>Credits</i>
AREC365 World Hunger, Population, and Food Supplies (DVUP)	none	3
BCHM462 Biochemistry II	BCHM461	3
BCHM463 Biochemistry of Physiology	(CHEM271 and CHEM272) or (CHEM276 and CHEM277)	3
BSCI330 Cell Biology and Physiology	BSCI170 and BSCI171 and CHEM131 and CHEM132	4
BSCI353 Principles of Neuroscience	BSCI207 or BSCI330; corequisite PHYS122, PHYS142, or PHYS132	3
BSCI417 Microbial Pathogenesis (DSSP in major)	60+ credits; BSCI223 and BSCI222	3
BSCI437 General Virology	60+ credits; BSCI222	3
EPIB330 Introduction to Infectious Disease Epidemiology	EPIB301	3
EPIB463 Introduction to Biostatistical Programming	none	3
FMSC310 Maternal, Child, and Family Health	none	3
FMSC330 Family Health: Health Happens in Families (DSHS, DVUP)	60+ credits	3
FMSC332 Children in Families (DSHS)	PSYC100 or FMSC105	3
FMSC340 Mental Health and Healing in Families	none	3
FMSC460 Violence in Families (DSHS, DVUP)	PSYC100, SOCY105, or SOCY100	3
GEOG373 Geographic Information Systems	none	3
GBHL310 Introduction to Global Health Literacy	FSAW; 30+ credits	3
HLSA484 Redesigning Health Care: Developing a Clinic to Meet Community Needs	60+ credits	3
HLTH377 Human Sexuality	none	3

### Spring 2025 - ALL APPROVED Public Health Science Options

<i>Course Number and Title (GenEd)</i>	<i>Prerequisites</i>	<i>Credits</i>
HLTH471 Women's Health	PHSC major (0201), HLTH, or WMST major	3
INST402 Designing Patient-Centered Technologies	INFO major; C- in INST362 or INST367	3
INST452 Health Data Analytics	INFO major; INST201, MATH115, PSYC100, INST126, and STAT100	3
INST462 Introduction to Data Visualization	INFO major; (INST201 or INST301) and INST126, INST314, MATH115, PSYC100 and STAT100	3
MIEH321 Environmental Determinants of Emerging Infectious Diseases	SPHL100 completed or concurrent	3
MIEH325 Introduction to Clinical Research Methods	none	3
MIEH415 Airborne Infection: The Science of COVID-19 and prevention of future pandemics	BSCI223 is recommended	3
NFSC315 Nutrition During the Life Cycle	NFSC100	3
PEER318 CARE Peer Advocacy	Application required	3
PEER319 CARE to Stop Violence Outreach Peer Program	Application required	3
PHSC388F The Public Health Lessons of the COVID-19 Pandemic: A Retrospective Examination	none	3
PHSC388G Public Health Science in Action: Applied Health Solutions	PHSC major; 60+ credits	3
PHSC389 Independent Research Study in Public Health Science	PHSC major; Application required	1-6
PHSC399 Public Health Science Internship	PHSC major; Application required	1-6
PHSC430 Public Health in the City: Perspectives on Health in the Urban Environment	Not available yet	3
PLCY388A Special Topics in Public Policy; Child and Family Policy Impact	none	3
PLCY401 Contemporary Issues in Public Policy (section 0201 only)	90+ credits; Note: only approved in certain years	3
PSYC344 Health Psychology	SPHL major or PSYC major; PSYC100	3
SOCY335 Sociology of Health and Illness (DSSP in major)	none	3

## Approved PHSC Options - open to students in other majors

Students in the process of declaring the Public Health Science major may be eligible to register for these courses. You must meet all additional prerequisites and restrictions listed in the Schedule of Classes.

### Spring 2025 - Public Health Science Options with no major restriction

Course Number and Title (GenEd)	Prerequisites	Credits
AREC365 World Hunger, Population, and Food Supplies (DVUP)	none	3
BCHM462 Biochemistry II	BCHM461	3
BCHM463 Biochemistry of Physiology	(CHEM271 and CHEM272) or (CHEM276 and CHEM277)	3
BSCI330 Cell Biology and Physiology	BSCI170 and BSCI171 and CHEM131 and CHEM132	4
BSCI353 Principles of Neuroscience	BSCI207 or BSCI330; corequisite PHYS122, PHYS142, or PHYS132	3
BSCI417 Microbial Pathogenesis (DSSP in major)	60+ credits; BSCI223 and BSCI222	3
BSCI437 General Virology	60+ credits; BSCI222	3
EPIB330 Introduction to Infectious Disease Epidemiology	EPIB301	3
FMSC310 Maternal, Child, and Family Health	none	3
FMSC330 Family Health: Health Happens in Families (DSHS, DVUP)	60+ credits	3
FMSC332 Children in Families (DSHS)	PSYC100 or FMSC105	3
FMSC340 Mental Health and Healing in Families	none	3
FMSC460 Violence in Families (DSHS, DVUP)	PSYC100, SOCY105, or SOCY100	3
GEOG373 Geographic Information Systems	none	3
HLSA484 Redesigning Health Care: Developing a Clinic to Meet Community Needs	60+ credits	3
HLTH377 Human Sexuality	none	3
MIEH321 Environmental Determinants of Emerging Infectious Diseases	SPHL100 completed or concurrent	3

### Spring 2025 - Public Health Science Options with no major restriction

<i>Course Number and Title (GenEd)</i>	<i>Prerequisites</i>	<i>Credits</i>
MIEH325 Introduction to Clinical Research Methods	none	3
MIEH415 Airborne Infection: The Science of COVID-19 and prevention of future pandemics	BSCI223 is recommended	3
NFSC315 Nutrition During the Life Cycle	NFSC100	3
PEER318 CARE Peer Advocacy	Application required	3
PEER319 CARE to Stop Violence Outreach Peer Program	Application required	3
PHSC388F The Public Health Lessons of the COVID-19 Pandemic: A Retrospective Examination	none	3
PLCY388A Special Topics in Public Policy; Child and Family Policy Impact	none	3
PSYC344 Health Psychology	SPHL major or PSYC major; PSYC100	3
SOCY335 Sociology of Health and Illness (DSSP in major)	none	3
SPAN371 Spanish for the Health Professions	SPAN303 and (SPAN311 or SPAN316)	3



## Approved PHSC Options - SPH courses

At least 3 credits of your Public Health Science Options must be taught in the School of Public Health (prefixes EPIB, FMSC, HLSA, HLTH, FMSC, KNES, MIEH, PHSC). You must meet all additional prerequisites and restrictions listed in the Schedule of Classes.

<b>Course Number and Title (GenEd)</b>	<b>Prerequisites</b>	<b>Credits</b>
EPIB330 Introduction to Infectious Disease Epidemiology	EPIB301	3
EPIB463 Introduction to Biostatistical Programming	none	3
FMSC310 Maternal, Child, and Family Health	none	3
FMSC330 Family Health: Health Happens in Families (DSHS, DVUP)	60+ credits	3
FMSC332 Children in Families (DSHS)	PSYC100 or FMSC105	3
FMSC340 Mental Health and Healing in Families	none	3
FMSC460 Violence in Families (DSHS, DVUP)	PSYC100, SOCY105, or SOCY100	3
GBHL310 Introduction to Global Health Literacy	FSAW completed; 30+ credits	3
HLSA484 Redesigning Health Care: Developing a Clinic to Meet Community Needs	60+ credits	3
HLTH377 Human Sexuality	none	3
HLTH471 Women's Health	PHSC major (0201), HLTH, or WMST major	3
MIEH321 Environmental Determinants of Emerging Infectious Diseases	SPHL100 completed or concurrent	3
MIEH325 Introduction to Clinical Research Methods	none	3
MIEH415 Airborne Infection: The Science of COVID-19 and prevention of future pandemics	BSCI223 is recommended	3
PHSC388F The Public Health Lessons of the COVID-19 Pandemic: A Retrospective Examination	none	3
PHSC388G Public Health Science in Action: Applied Health Solutions	PHSC major; 60+ credits	3
PHSC389 Independent Research Study in Public Health Science	PHSC major; Application required	1-6



## General Education Categories

The table below includes general education categories that are NOT fulfilled by Public Health Science (PHSC) required major courses.

PHSC Major GENERAL EDUCATION REQUIREMENTS		
Category	Credits	Open Seats
<b>GenEd: FUNDAMENTAL STUDIES</b>		
[FSAW] Academic Writing	3	<a href="#">FSAW Sp25</a>
[FSPW] Professional Writing (Pre-Req: 60+ credits)	3	<a href="#">FSPW Sp25</a>
[FSOC] Oral Communication	3	<a href="#">FSOC Sp25</a>
<i>[FSMA] Mathematics and [FSAR] Analytic Reasoning are fulfilled by PHSC major required courses</i>		
<b>GenEd: DISTRIBUTIVE STUDIES</b>		
[DSHU] Humanities (2 courses required)	3	<a href="#">DSHU Sp25</a>
[DSHS] History & Social Sciences (Choose 1 from <a href="#">ANTH260</a> , <a href="#">HLTH130</a> , <a href="#">HLTH230</a> , <a href="#">PSYC100</a> , <a href="#">SOCY100</a> , or <a href="#">SOCY105</a> )	3	Sp25 - links at left
[DSHS] History & Social Sciences	3	<a href="#">DSHS Sp25</a>
[DSSP] Scholarship in Practice (must be outside of PHSC major requirements)	3	<a href="#">DSSP Sp25</a>
<i>[DSSP] Scholarship in Practice (in major) and [DSNL]/[DSNS] Natural Sciences are fulfilled by PHSC major required courses</i>		
<b>GenEd: i-SERIES and DIVERSITY</b>		
[SCIS] I-Series (can also fulfill a Distributive Studies category)	0-3	<a href="#">SCIS Sp25</a>
[DVUP] Understanding Plural Societies or [DVCC] Cultural Competence (can also fulfill Distributive Studies)	0-3	<a href="#">DVUP Sp25</a> or <a href="#">DVCC Sp25</a>
<i>Additional [SCIS] i-Series and [DVUP] Understanding Plural Societies requirements are fulfilled by PHSC major required courses</i>		



# Non-major Electives

Coming soon