

Bachelor of Science in Public Health

2024-2025 Curriculum Guide

(including General Education, Admissions requirements and Major requirements)

Environmental Public Health Specialization incorporating Pre-Medicine prerequisites

Course	Credit Hours
General Education (GE) Requirements Students should refer to GE guide for specific GE requirements	
General Education Foundation Courses (24 credit hours)	
Writing and Information Literacy (ENGLISH 1110.XX)	3
Mathematical and Quantitative Reasoning (MATH 1148&1149 or 1150 to overlap w/prereq)	5-7
Literary, Visual and Performing Arts	3
Historical and Cultural Studies	3
Natural Science (BIOLOGY 1113.01 or 1113.02)	4
Social and Behavioral Sciences	3
Race, Ethnic and Gender Diversity	3

GE Themes (9-12 credit hours)	
Theme 1: (Required) Citizenship for a Diverse and Just World (select two courses)	6
Theme 2: Theme of your choice (select one course)	3*
*Students can overlap one approved Public Health Foundation Course to fulfill requirements for the Health and Well-Being Theme (PUBHLTH 2010, PUBHEPI 2410, PUBHHBP 3510, PUBHHMP 3610) or the Lived Environment (PUBHEHS 3310) Theme.	

GE Bookends (2 credit hours)	
GENED 1201 (Launch Seminar)	1
GENED 4001 (Reflection Seminar)	1

First Year Survey Course (1 credit hour)	
PUBHLTH 1100 Survey of Public Health	1

BSPH Major Admission Requirements	
MATH 1148/1149 or MATH 1150 or higher, Minimum 2.50 cumulative GPA, grade of C or higher in prerequisite math, Completion of 15 credit hours	

Major Requirements C- or higher required in all major courses	
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Required Public Health Foundation Courses (18 credit hours)	
PUBHBIO 2210 or 2210(H) Biostatistics for Public Health Research	3
**PUBHEHS 3310 Current Issues in Global Environmental Health	3
**PUBHLTH 2010 Critical Issues in Global Public Health	3
**PUBHHBP 3510 Role of Behavior in Public Health	3
**PUBHEPI 2410 Epidemiology in Public Health	3
**PUBHHMP 3610 U.S. & International Health Care	3

Required Interdisciplinary Specialization Courses (25 credit hours)	
CHEM 1210 General Chemistry I	5
CHEM 1220 General Chemistry II	5
CHEM 2510 Organic Chemistry I	4
CHEM 2540 Organic Chemistry Lab I	2
MICROBIOLOGY 4000.01 or 4000.02 Basic and Practical Microbiology	4
PHYSICS 1200 Mechanics, Kinematics, Fluids, Waves	5

Interdisciplinary Environmental Public Health Specialization Courses (27-28 credit hours)	
EARTHSCI 2203 Environmental Geoscience	3
EARTHSCI 3411 Water Security for the 21st Century (SP)	3
PUBHEHS 3320 Fundamentals of Environmental Health Risk Assessment (SP)	3
PUBHEHS 4530 Food Safety & Public Health (SP)	3
PUBHEHS 5315 Principles of Toxicology (SP)	3
PUBHEHS 5335 Ecology of Infectious Diseases (SP)	3
PUBHEHS 5340 Air Contaminants & Public Health (SP)	3
PUBHEPI 3411 Public Health Field Investigation	3
Select one course from the following (credit hours included above)	
EARTHSCI 5203 Geo-Environment & Human Health	3
EARTHSCI 5663 Global Change & Sustainability in the Earth System	4
PUBHEHS 4330 Environmental Epigenetics	3

Course	Credit Hours
Selectives (9-12 credit hours)	
Select from courses listed below or other EPH applicable course(s) with EHS faculty approval (courses cannot overlap with Interdisciplinary Environmental Public Health requirements)	
EARTHSC 2204 Exploring Water Issues	3
EARTHSC 4450 Water, Ice, & Energy in the Earth System	3
EARTHSC 5203 Geo-Environment & Human Health	3
EARTHSC 5651 Hydrogeology	4
EARTHSC 5663 Global Change & Sustainability in the Earth System	4
ENR 2100 Introduction to Environmental Science	3
ENR 3000 Soil Science	3
GEOG 2800 Our Global Environment	3
GEOG 5210 Fundamentals of GIS	3
PUBHLTH 3998 Undergraduate Public Health Research	2
PUBHLTH 5015 Public Health Data Analytics	3
PUBHEHS 3330 Global Pandemics and Public Health	3
PUBHEHS 4325 Climate Change and Human Health	3
PUBHEHS 4330 Environmental Epigenetics	3
PUBHEHS 4340 Molecular Techniques for EHS	3
PUBHEHS 5325 Principles of Occupational Health Science	3
PUBHEHS 5395 Engineering Design Environmental Health	3
PUBHEPI 5412 Infectious Disease Epidemiology	3
VETPREV 5721 How Animals Can Make You Sick	3

Capstone (3-4 credit hours)	
PUBHLTH 3180 or 3180E (Capstone Preparation course, required of all students)	1
Select one Capstone Course:	
PUBHLTH 3191/3191E Internship/Honors Internship	2
EARTHSCI 5797.20 Exploring Environmental and Human Health Issues in Japan or pre-approved Education Abroad experience	3
PUBHLTH 3999 Undergraduate Capstone Research	2
PUBHLTH 4999/4999.01H Research Thesis	2
Pre-Medicine prerequisites not incorporated into the GE or major (19 credit hours)	
Chemistry 2520 Organic Chemistry II	4
Chemistry 2550 Organic Chemistry Lab II	2
Physics 1201 E&M, Optics, Modern Physics	5
Biology 1114E or H Biological Sciences: Form, Function, Diversity & Ecology	4
Biochemistry 4511 Introduction to Biological Chemistry	4
Total Minimum Credit Hours	137

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Bachelor of Science in Public Health Environmental Public Health Specialization incorporating Pre-Medicine prerequisites

Suggested 4 year plan

Autumn 1	Credit Hours
ENGLISH 1110.0X	3
MATH 1150	5
CHEM 1210	5
PUBHLTH 1100	1
PUBHLTH 2010	3
Total Hours	17

Spring 1	Credit Hours
CHEM 1220	5
PUBHEHS 3310	3
Historical and Cultural Studies GE	3
BIOLOGY 1113.01 or 1113.02	4
GENED 1201 (Launch Seminar)	1
Total Hours	16

Autumn 2	Credit Hours
PUBHHMP 3610	3
CHEM 2510	4
CHEM 2540	2
PUBHHBP 3510	3
PHYSICS 1200	5
Total Hours	17

Spring 2	Credit Hours
PHYSICS 1210	5
SELECTIVE	3
PUBHBIO 2210 or 2210H	3
CHEM 2520	4
CHEM 2550	2
Total Hours	17

Autumn 3	Credit Hours
MICROBIOLOGY 4000.01 or .02	4
Race, Ethnic and Gender Diversity GE	3
PUBHEPI 2410	3
EARTHSCI 2203	3
PUBHEPI 3411	3
Social and Behavioral Sciences GE	3
Total Hours*	19

Spring 3	Credit Hours
Literary, Visual & Performing Arts GE	3
GE THEME COURSE: Citizenship for a Diverse and Just World	3
BIOLOGY 1114	4
PUBHEHS 3320	3
PUBHEHS 4530	3
Total Hours	16

Autumn 4	Credit Hours
PUBHLTH 3180 (Capstone Prep)	1
GE THEME COURSE	3
Select one of three Interdisciplinary EPH specialization courses	3
BIOCHEMISTRY 4511	4
SELECTIVE	3
GE THEME COURSE: Citizenship for a Diverse and Just World	3
Total Hours	17

Spring 4	Credit Hours
CAPSTONE COURSE	2
GENED 4001 (Reflection Seminar)	1
PUBHEHS 5340	3
EARTHSCI 3411	3
SELECTIVE	3
PUBHEHS 5335	3
PUBHEHS 5315	3
Total Hours	18
Total Credit Hours	137

**In order to incorporate pre-medicine prerequisites into an 8 semester plan, there will need to be 1 term of an overload petition required. Students may want to consider taking a course in a summer term to avoid the petition.*