

# PUBLIC HEALTH (BS)

## Creating healthy people and communities

Grounded in the basic sciences with an emphasis on population health, the B.S. in Public Health (BSPH) degree prepares students for positions in fields such as health education, epidemiology, and environmental health, across nonprofit, industry, and government sectors. Pre-health students who seek a medical or health professions degree can broaden their experience with a multidisciplinary public health major.

## Accreditation

Loyola University Chicago Public Health Programs are accredited by the **Council on Education for Public Health** (CEPH). In March 2021, CEPH Board of Councilors acted to renew our BSPH and MPH programs' accreditation for a seven-year period. For questions on accreditation, please email Dr. Ruth Kafensztok (rkafens@luc.edu).

## Related Programs

### Major

- Public Health (BA) (<https://catalog.luc.edu/undergraduate/health-sciences-public-health/public-health-ba/>)

### Combined

- Public Health (BS/MPH) (<https://catalog.luc.edu/undergraduate/accelerated-bachelors-masters-program/public-health-bsmph/>)

## Curriculum

The BSPH program draws on courses in ethics, environmental sciences, biology, mathematics, healthcare administration, social sciences, and the humanities alongside epidemiology, biostatistics, health behavior and promotion, health communication, policy, and global health.

The program requires 71 credit hours towards the minimum 120 credits needed for graduation. In addition to the 71 major credits, students complete 34 credits in the University Core, and may use the remaining 15 general elective credits towards pursuing minors or other courses of interest. Several Knowledge Areas within the **University Core** are waived for BSPH students as they are already included in the major (Quantitative, Scientific Literacy, etc.).

Code	Title	Hours
BIOL 101	General Biology I	3
BIOL 102	General Biology II	3
BIOL 111	General Biology I Lab	1
BIOL 112	General Biology II Lab	1
MATH 131	Applied Calculus I	3
MATH 132	Applied Calculus II	3
STAT 335	Introduction to Biostatistics (Prerequisites: BIOL 102 and MATH 132)	3
STAT 303	SAS Programming & Applied Statistics (Prerequisite: STAT 335)	3
PSYC 101	General Psychology	3
ANTH 280	Evolution of Human Disease	3
or ANTH 258	Medical Anthropology & Global Health	
or ANTH 353	Epidemics and Pandemics	
or ANTH 359	Paleopathology	

PHIL 284 / PHIL 287	Health Care Ethics	3
ENVS 380	Introduction to Geographic Information Systems <sup>1</sup>	3
HSM 110	Healthcare in America <sup>2</sup>	3
HSM 230	Fundamentals of Health Equity	3
HSM 310	Healthcare Project Management	3
PUBH 300	Introduction to Public Health	3
PUBH 301	Health and the Environment	3
PUBH 303	Fundamentals of Epidemiology <sup>1</sup>	3
PUBH 304	Health Behavior and Health Promotion <sup>2</sup>	3
PUBH 306	Critical Thinking in Public Health <sup>3</sup>	3
PUBH 307	Foundations of Public Health Policy <sup>1, 3</sup>	3
PUBH 314 / HSM 210	Global Public Health <sup>1, 2</sup>	3
PUBH 399	Public Health Capstone Experience <sup>2</sup>	3
Public Health Elective Courses (PUBH 310, Public Health Internship; PUBH 390, Public Health Intelligence; or choose from elective course listing available from the BSPH advisor.)		6
<b>Total Hours</b>		<b>71</b>

<sup>1</sup> If interested in the BSPH/MPH five-year, accelerated bachelors/master's program, see Keith Kramer, [kkramer4@luc.edu](mailto:kkramer4@luc.edu), Senior Program Advisor for the B.S. in Public Health Program, first before taking PUBH 303, 307, 314/HSM 210 or ENVS 380.

<sup>2</sup> This course satisfies the Engaged Learning requirement.

<sup>3</sup> This course satisfies the Writing Intensive requirement.

## Suggested Sequence of Courses

### BS in Public Health Sample Academic Plan Parkinson School of Health Sciences and Public Health

*BSPH majors must complete this list of University Core areas:*

**Artistic Knowledge** (1 course/3 credit hours)

**Ethics** (1 course/3 credit hours)

**Historical Knowledge** (2 courses/6 credit hours)

**Literary Knowledge** (2 courses/6 credit hours)

**Philosophical Knowledge - Foundational** (1 course/3 credit hours)

**Societal Knowledge - Foundational** (1 course/3 credit hours)

**Theological Knowledge** (2 courses/6 credit hours)

**Writing Seminar** (1 course/3 credit hours)

*120 Total Credit Hours (71 BSPH, 34 Core/UNIV 101 First Year Seminar, 15 General Electives)*

The below sequence of courses is meant to be used as a suggested path for completing coursework. An individual student's completion of requirements depends on course offerings in a given term as well as the start term for a major or graduate study. Students should consult their advisor for assistance with course selection.

Course	Title	Hours
<b>First Year</b>		
<b>Fall</b>		
BIOL 101 & BIOL 111	General Biology I and General Biology I Lab	4
MATH 131	Applied Calculus I	3
UCLR 100	Interpreting Literature (C/E/M) <sup>1</sup>	3
UCWR 110	Writing Responsibly <sup>1</sup>	3

UNIV 101	First Year Seminar	1
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
Select one of the following:		3
ANTH 100	Globalization and Local Cultures (CORE) <sup>1</sup>	
Substitute		
BIOL 102	General Biology II	4
& BIOL 112	and General Biology II Lab	
HIST CORE (Tier 1)	Historical Knowledge <sup>1</sup>	3
MATH 132	Applied Calculus II	3
Select one of the following:		3
PHIL 181	Ethics (CORE) <sup>1</sup>	
Substitute		
<b>Hours</b>		<b>16</b>
<b>Second Year</b>		
<b>Fall</b>		
THEO CORE (Tier 1)	Theological Knowledge <sup>1</sup>	3
HSM 110	Healthcare in America	3
PSYC 101	General Psychology	3
PUBH 300	Introduction to Public Health (may take when offered in fall or spring terms)	3
PUBH 301	Health and the Environment (fall or spring term when offered)	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
Select one of the following:		3
ANTH 280	Evolution of Human Disease	
ANTH 353	Epidemics and Pandemics	
ANTH 359	Paleopathology	
ART CORE	Artistic Knowledge <sup>1</sup>	3
HIST CORE (Tier 2)	Historical Knowledge <sup>1</sup>	3
PHIL 130	Philosophy & Persons (CORE) <sup>1</sup>	3
General Elective		3
<b>Hours</b>		<b>15</b>
<b>Third Year</b>		
<b>Fall</b>		
General Elective		3
PUBH 304	Health Behavior and Health Promotion	3
PUBH 306	Critical Thinking in Public Health	3
STAT 335	Introduction to Biostatistics	3
Select one THEO CORE (Tier 2) course of the following: <sup>1</sup>		3
THEO 203		
THEO 204		
Substitute		
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
General Elective		3
HSM 230	Fundamentals of Health Equity	3
PHIL 284	Health Care Ethics	3
or PHIL 287	or Environmental Ethics	
LIT CORE (Tier 2)	Literary Knowledge <sup>1</sup>	3
Select one Public Health Elective of the following: <sup>2</sup>		3
PUBH 310		Public Health Internship

Public Health Internships		
Other options for BSPH electives		
<b>Hours</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
General Elective		3
PUBH 303	Fundamentals of Epidemiology <sup>3</sup>	3
PUBH 307	Foundations of Public Health Policy <sup>3</sup>	3
PUBH 314 / HSM 210	Global Public Health <sup>3</sup>	3
STAT 303	SAS Programming & Applied Statistics	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
ENVS 380	Introduction to Geographic Information Systems <sup>3</sup>	3
General Elective		3
HSM 310	Healthcare Project Management	3
PUBH 399	Public Health Capstone Experience	3
Select one Public Health Elective of the following: <sup>2</sup>		3
PUBH 310		Public Health Internship
Public Health Internships		
Other options for BSPH electives		
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> University Core (<https://catalog.luc.edu/undergraduate/university-requirements/university-core/>)

<sup>2</sup> Public Health electives will represent a cross-section of interdisciplinary academic options from which students may choose (6 credits needed)

<sup>3</sup> If interested in the BSPH/MPH five-year, dual-degree program, contact Keith Kramer, [kkramer4@luc.edu](mailto:kkramer4@luc.edu) first before taking PUBH 303 Fundamentals of Epidemiology, PUBH 307 Foundations of Public Health Policy, PUBH 314 Global Public Health/HSM 210 Introduction to Global Healthcare Delivery, or ENVS 380 Introduction to Geographic Information Systems. Each course above is three credits except where noted.

### BS in Public Health with Pre-Med Requirements Parkinson School of Health Sciences and Public Health

BSPH majors must complete this list of University Core areas:

**Artistic Knowledge** (1 course/3 credit hours)

**Ethics** (1 course/3 credit hours)

**Historical Knowledge** (2 courses/6 credit hours)

**Literary Knowledge** (2 courses/6 credit hours)

**Philosophical Knowledge - Foundational** (1 course/3 credit hours)

**Societal Knowledge - Foundational** (1 course/3 credit hours)

**Theological Knowledge** (2 courses/6 credit hours)

**Writing Seminar** (1 course/3 credit hours)

132 Total Credit Hours

Course	Title	Hours
<b>First Year</b>		
<b>Fall</b>		
BIOL 101	General Biology I	4
& BIOL 111	and General Biology I Lab	

CHEM 160 & CHEM 161	Chemical Structure and Properties and Chemical Structure and Properties Laboratory	4
MATH 131	Applied Calculus I	3
UCLR 100	Interpreting Literature (C/E/M) <sup>1</sup>	3
UCWR 110	Writing Responsibly <sup>1</sup>	3
UNIV 101	First Year Seminar	1
<b>Hours</b>		<b>18</b>

**Spring**

BIOL 102 & BIOL 112	General Biology II and General Biology II Lab	4
CHEM 180 & CHEM 181	Chemical Reactivity I and Chemical Reactivity I Lab	4
Select one of the following:		3
PHIL 181	Ethics (CORE) <sup>1</sup>	
Core Ethics Substitute <sup>1</sup>		
MATH 132	Applied Calculus II	3
Select one of the following:		3
SOCL 101	Society in a Global Age	
Societal Knowledge Substitute <sup>1</sup>		
<b>Hours</b>		<b>17</b>

**Second Year****Fall**

BIOL 251	Cell Biology	3
CHEM 240 & CHEM 241	Chemical Reactivity II and Chemical Reactivity II Laboratory	4
HIST CORE (Tier 1)	Historical Knowledge <sup>1</sup>	3
PUBH 300	Introduction to Public Health (may take when offered in fall or spring terms)	3
PUBH 301	Health and the Environment (fall or spring term when offered)	3
<b>Hours</b>		<b>16</b>

**Spring**

BIOL 282	Genetics	3
THEO CORE	Theological Knowledge <sup>1</sup>	3
CHEM 260 & CHEM 261	Quantitative Methods in Chemistry and Quantitative Methods in Chemistry Laboratory	4
HSM 110	Healthcare in America	3
PSYC 101	General Psychology	3
<b>Hours</b>		<b>16</b>

**Third Year****Fall**

BIOL 366 / CHEM 361	Cell Physiology & Biochemistry	3
PHYS 111 & 111L	College Physics I Lec / Dis and College Physics Laboratory I	4
PUBH 304	Health Behavior and Health Promotion	3
PUBH 306	Critical Thinking in Public Health	3
STAT 335	Introduction to Biostatistics	3
<b>Hours</b>		<b>16</b>

**Spring**

Select one of the following:		3
ANTH 280	Evolution of Human Disease	

ANTH 353	Epidemics and Pandemics	
ANTH 359	Paleopathology	
HSM 230	Fundamentals of Health Equity	3
PHIL 130	Philosophy & Persons <sup>1</sup>	3
PHYS 112 & 112L	College Physics II Lec/Disc and College Physics Lab II	4
STAT 303	SAS Programming & Applied Statistics	3
<b>Hours</b>		<b>16</b>

**Fourth Year****Fall**

HIST CORE (Tier 2)	Historical Knowledge <sup>1</sup>	3
LIT CORE (Tier 2)	Literary Knowledge <sup>1</sup>	3
PHIL 284 or PHIL 287	Health Care Ethics or Environmental Ethics	3
PUBH 303	Fundamentals of Epidemiology <sup>2</sup>	3
PUBH 307	Foundations of Public Health Policy <sup>2</sup>	3
PUBH 314 / HSM 210	Global Public Health <sup>2</sup>	3
<b>Hours</b>		<b>18</b>

**Spring**

ART CORE	Artistic Knowledge <sup>1</sup>	3
ENVS 380	Introduction to Geographic Information Systems <sup>2</sup>	3
HSM 310	Healthcare Project Management	3
PUBH 399	Public Health Capstone Experience	3
Select one of the following: <sup>2</sup>		3
THEO CORE (Tier 2) <sup>1</sup>		
THEO 203	Social Justice and Injustice	
THEO 204	Religious Ethics and the Ecological Crisis	
Substitute		
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>132</b>

<sup>1</sup> University Core (<https://catalog.luc.edu/undergraduate/university-requirements/university-core/>)

<sup>2</sup> If interested in the BSPH/MPH five-year, dual-degree program, contact Keith Kramer, [kkramer4@luc.edu](mailto:kkramer4@luc.edu) first before taking PUBH 303 Fundamentals of Epidemiology, PUBH 307 Foundations of Public Health Policy, PUBH 314 Global Public Health/HSM 210 Introduction to Global Healthcare Delivery, or ENVS 380 Introduction to Geographic Information Systems. Each course above is three credits except where noted. PUBH 310 Public Health Internship, Public Health Internship, is a great elective option.

## Additional Undergraduate Graduation Requirements

All Undergraduate students are required to complete the University Core, at least one Engaged Learning course, and UNIV 101. SCPS students are not required to take UNIV 101. Nursing students in the Accelerated BSN program are not required to take core or UNIV 101. You can find more information in the University Requirements (<https://catalog.luc.edu/undergraduate/university-requirements/>) area.

## Learning Outcomes

- Discuss the history, characteristics, roles, functions, structures, and core concepts of public health and the U.S. health system
- Debate the socioeconomic, behavioral, biological, and environmental factors that influence human health and disease and perpetuate health disparities
- Describe the legal, regulatory, ethical, and economic dimensions shaping public health policy and practice
- Locate, use, evaluate, and synthesize public health information
- Use basic statistics and perform statistical analysis in SAS, a widely-used statistical software program, to identify and describe populations' health concerns
- Communicate public health information, in both oral and written forms, through a variety of media and to diverse audiences
- Identify the basic tools for project management as well as population health assessment, planning, and evaluation
- Advocate for health equity, especially on behalf of vulnerable and marginalized populations
- Take a stand on a controversial public health issue and support it with evidence
- Craft evidence-based solutions that take account of the community dynamics and cultural contexts in which public health practitioners work
- Engage in sound ethical practice while exhibiting a high degree of professionalism