

# PUBLIC HEALTH - 5-YEAR BACHELOR OF SCIENCE AND MASTER OF PUBLIC HEALTH IN EPIDEMIOLOGY

The School of Public Health offers a 5-year degree program including a Bachelor of Science and a Master of Public Health in Epidemiology.

The 3+2 Bachelor of Science in Public Health/Masters in Public Health in Epidemiology degree program is more than a means to produce next-level Epidemiologists. It will deliver a graduate who can not only immediately impact the field of Epidemiology, but also deliver someone with a well-rounded understanding of the role that Epidemiology and Public Health play in medicine, nursing, allied health or other health professions.

The undergraduate component of the 3+2 program is based on a philosophy of health promotion and disease prevention, to improve the quality of life of individuals, families and communities. The graduate MPH component is a non-thesis degree program with culminating experiences as part of the degree requirements. Students will participate in a practicum demonstrating overall public health problem solving skills and complete a rigorous capstone class.

## Program Requirements

The following is a suggested schedule that includes the required courses for the combined BS/MPH in Public Health-Epidemiology. It is recognized that many students will change the sequence and number of courses taken in any semester. Deviations from the the prescribed course sequence, however, should be made with care to ensure that prerequisites for all courses are met.

### First Year

Fall		Semester Credit Hours
BIOL 111	Introductory Biology I	4
Select one of the following:		3
COMM 203	Public Speaking	
COMM 205	Communication for Technical Professions	
COMM 243	Argumentation and Debate	
ENGL 104	Composition and Rhetoric	
ENGL 203	Writing about Literature	
ENGL 210	Technical and Professional Writing	
PERF 407	Performing Literature	
Select one of the following:		3
MATH 140	Mathematics for Business and Social Sciences	
MATH 142	Business Calculus	
MATH 147	Calculus I for Biological Sciences	
MATH 148	Calculus II for Biological Sciences	
MATH 151	Engineering Mathematics I	
MATH 152	Engineering Mathematics II	
MATH 168	Finite Mathematics	
MATH 171	Calculus I	

MATH 172	Calculus II	
PHIL 240	Introduction to Logic	
Social and behavioral sciences ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences</a> )		3
<b>Semester Credit Hours</b>		<b>13</b>
<b>Spring</b>		
BIOL 112	Introductory Biology II	4
Select one of the following:		3
COMM 203	Public Speaking	
COMM 205	Communication for Technical Professions	
COMM 243	Argumentation and Debate	
ENGL 104	Composition and Rhetoric	
ENGL 203	Writing about Literature	
ENGL 210	Technical and Professional Writing	
PERF 407	Performing Literature	
Select one of the following:		3
MATH 140	Mathematics for Business and Social Sciences	
MATH 142	Business Calculus	
MATH 147	Calculus I for Biological Sciences	
MATH 148	Calculus II for Biological Sciences	
MATH 151	Engineering Mathematics I	
MATH 152	Engineering Mathematics II	
MATH 168	Finite Mathematics	
MATH 171	Calculus I	
MATH 172	Calculus II	
PHIL 240	Introduction to Logic	
Creative arts ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts</a> )		3

<b>Semester Credit Hours</b>		<b>13</b>
<b>Second Year</b>		
<b>Fall</b>		
CHEM 119	Fundamentals of Chemistry I	4
POLS 206	American National Government	3
American history ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> )		3
Free electives <sup>1</sup>		6
<b>Semester Credit Hours</b>		<b>16</b>
<b>Spring</b>		
POLS 207	State and Local Government	3
American history ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> )		3
Language, philosophy and culture ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture</a> )		3
Free electives <sup>1</sup>		6
<b>Semester Credit Hours</b>		<b>15</b>
<b>Third Year</b>		
<b>Fall</b>		
PHLT 302	Foundations of Public Health	3

PHLT 303	Social Context of Population Health	3	PHLT 415	Emergency Management in Public Health	3
PHLT 304	Biological Basis of Public Health	3	SOPH 680	Public Health Capstone <sup>2</sup>	3
PHLT 310	Public Health Writing	1	Elective <sup>3</sup>		3
PHLT 313	Health Care and Public Health System	3		<b>Semester Credit Hours</b>	<b>12</b>
PHLT 314	Public Health Data Management and Assessment I	2		<b>Total Semester Credit Hours</b>	<b>150</b>
	<b>Semester Credit Hours</b>	<b>15</b>			
<b>Spring</b>					
PHLT 305	Epidemiology in Public Health	3			
PHLT 309	Population Health Promotion	3			
PHLT 311	Narrative Approach to Public Health	1			
PHLT 315	Public Health Data Management and Assessment II	2			
PHLT 330	The Environment and Public Health	3			
PHLT 412	Health Advocacy and Policy	3			
	<b>Semester Credit Hours</b>	<b>15</b>			
<b>Fourth Year</b>					
<b>Fall</b>					
PHEB 602	Biostatistics I	3			
PHLT 411	Project Management in Public Health	3			
PHLT 441	Strategies for Population Health Improvement	3			
SOPH 601	Thinking in Populations: The Public Health Mindset <sup>2</sup>	2			
SOPH 602	Investigation and Control: Acute Public Health Events <sup>2</sup>	3			
SOPH 603	Assessment and Intervention: Wicked Problems in Public Health <sup>2</sup>	3			
	<b>Semester Credit Hours</b>	<b>17</b>			
<b>Spring</b>					
PHEB 603	Biostatistics II	3			
PHEB 605	Epidemiologic Methods I	3			
PHEB 612	Data Management / Computing	3			
PHLT 410	Public Health Communication	3			
PHLT 445	Applications of Public Health	3			
SOPH 604	Framing and Persuasion: Public Health in the Public Sphere <sup>2</sup>	1			
	<b>Semester Credit Hours</b>	<b>16</b>			
<b>Summer</b>					
PHEB 684	Practicum <sup>2</sup>	3			
	<b>Semester Credit Hours</b>	<b>3</b>			
<b>Fifth Year</b>					
<b>Fall</b>					
PHEB 609	Categorical Data Analysis	3			
PHEB 610	Epidemiologic Methods II	3			
PHEB 615-627 ( <a href="http://catalog.tamu.edu/graduate/course-descriptions/pheb/">http://catalog.tamu.edu/graduate/course-descriptions/pheb/</a> )		3			
PHLT 307	Public Health in the Global Context	3			
Elective <sup>3</sup>		3			
	<b>Semester Credit Hours</b>	<b>15</b>			
<b>Spring</b>					
PHEB 615-627 ( <a href="http://catalog.tamu.edu/graduate/course-descriptions/pheb/">http://catalog.tamu.edu/graduate/course-descriptions/pheb/</a> )		3			

<sup>1</sup> Chosen in consultation with BSPH academic advisor.

<sup>2</sup> These 15 hours will be used towards both the BS and MPH degree in Public Health

<sup>3</sup> Elective options: Courses from PHEB or other SPH departments may be taken. One elective must be a statistics course. For courses outside SPH, please get approval from the departmental advisor.

The program includes a total of 165 hours which up to 15 hours may be applied toward both the Bachelor of Science in Public Health and the Master of Public Health in Epidemiology.

Approval of degree plan does not guarantee access to courses. Students must satisfy prerequisites, and some course (writing intensive classes included) are available to majors only. It is the responsibility of the student to ascertain whether there are any restrictions or prerequisites for courses in their degree plan.