PUBLIC HEALTH - BS

Public Health professionals with a Bachelor of Science in Public Health (BSPH) are prepared to:

- understand the history, ethics, and traditions of the field of public health.
- value the scope and nature of problems and challenges addressed by the field of public health.
- appreciate the breadth, depth, and variety of intellectual and practical skills employed in the field of public health.
- appreciate the variety of communication methods and cultural competence required in the field of public health.

The BSPH program is based on a philosophy of health promotion and disease prevention, to improve the quality of life of individuals, families and communities. The BSPH discipline focuses on four areas:

- the multiple determinants of health, including biological, environmental, sociocultural, health service, and economic factors,
- identification of scientific data, tools of informatics, and other information for identifying indicators of health status and health disparities and assessing the well-being of a community,
- 3. addressing major local, national, and global health challenges, and
- designing public health approaches and interventions that improve health outcomes, population health and well-being.

The Bachelor of Science in Public Health degree program is more than a means to produce ready public health practitioners. It can complement or enrich a traditional biology-based pre-health degree plan for students intending professional education in medicine, nursing, allied health or other health professions. Notably the program establishes a specific entry-level baccalaureate degree in the Public Health academic pathway which, until recently, had started with a master's degree.

This program is approved to be offered at the Texas A&M Higher Education Center in McAllen, Texas.

Program Requirements

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	
Selet one of the f	ollowing:	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 171		
	Calculus I	
MATH 172	Calculus II	
PHIL 240	Introduction to Logic	
Social and Beha	vioral Sciences (http://catalog.tamu.edu/	3
•	general-information/university-core- cial-behavioral-sciences)	
	Semester Credit Hours	13
Spring		
BIOL 112	Introductory Biology II	4
Select one of the	e 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	e 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	
MATILICO	Finite Mathematics	
MATH 168		
MATH 108	Calculus I	
	Calculus I	
MATH 171		
MATH 171 MATH 172 PHIL 240 Creative arts (ht	Calculus II	3
MATH 171 MATH 172 PHIL 240 Creative arts (ht general-informa arts)	Calculus II Introduction to Logic tp://catalog.tamu.edu/undergraduate/	
MATH 171 MATH 172 PHIL 240 Creative arts (ht general-informa arts) Second Year	Calculus II Introduction to Logic tp://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#creative-	
MATH 171 MATH 172 PHIL 240 Creative arts (ht general-informa arts) Second Year	Calculus II Introduction to Logic tp://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#creative- Semester Credit Hours	13
MATH 171 MATH 172 PHIL 240 Creative arts (ht general-informa arts) Second Year Fall POLS 206	Calculus II Introduction to Logic tp://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#creative- Semester Credit Hours American National Government	13
MATH 171 MATH 172 PHIL 240 Creative arts (ht general-informararts) Second Year Fall POLS 206 CHEM 119	Calculus II Introduction to Logic tp://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#creative- Semester Credit Hours American National Government Fundamentals of Chemistry I	13 3 4
MATH 171 MATH 172 PHIL 240 Creative arts (ht general-informa arts) Second Year Fall POLS 206 CHEM 119 American histor general-informa	Calculus II Introduction to Logic tp://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#creative- Semester Credit Hours American National Government	13 3 4
MATH 171 MATH 172 PHIL 240 Creative arts (ht general-informa arts) Second Year Fall POLS 206 CHEM 119 American histor general-informa history)	Calculus II Introduction to Logic tp://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#creative- Semester Credit Hours American National Government Fundamentals of Chemistry I y (http://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#american-	13
MATH 171 MATH 172 PHIL 240 Creative arts (ht general-informa arts) Second Year Fall POLS 206 CHEM 119 American histor general-informa	Calculus II Introduction to Logic tp://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#creative- Semester Credit Hours American National Government Fundamentals of Chemistry I y (http://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#american-	13 3 4 3
MATH 171 MATH 172 PHIL 240 Creative arts (ht general-informa arts) Second Year Fall POLS 206 CHEM 119 American histor general-informa history) General elective Spring	Calculus II Introduction to Logic tp://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#creative- Semester Credit Hours American National Government Fundamentals of Chemistry I y (http://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#american- s Semester Credit Hours	13 3 4 3
MATH 171 MATH 172 PHIL 240 Creative arts (ht general-informararts) Second Year Fall POLS 206 CHEM 119 American histor general-informara history) General elective Spring POLS 207	Calculus II Introduction to Logic tp://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#creative- Semester Credit Hours American National Government Fundamentals of Chemistry I y (http://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#american- s Semester Credit Hours State and Local Government	133 34 33 66 166
MATH 171 MATH 172 PHIL 240 Creative arts (ht general-informarats) Second Year Fall POLS 206 CHEM 119 American histor general-informaratistory) General elective Spring POLS 207 Language, philoundergraduate/e	Calculus II Introduction to Logic tp://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#creative- Semester Credit Hours American National Government Fundamentals of Chemistry I y (http://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#american- s Semester Credit Hours	13 3 4 3

MATH 151

MATH 152

MATH 168

Engineering Mathematics I

Engineering Mathematics II

Finite Mathematics

General elective		6	PHLT 333	Accident Investigation	
	Semester Credit Hours	15	PHLT 334	Fire Safety and Workplace Hazards	
Third Year			PHLT 335	Hazardous Materials	
Fall			PHLT 413	Public Health Informatics	
PHLT 302 PHLT 303	Foundations of Public Health Social Context of Population Health	3	PHLT 414	Applications of Epidemiology in Public Health	
PHLT 304	Biological Basis of Public Health	3	PHLT 416	Public Health Leadership and Ethics	
PHLT 310	Public Health Writing	1	PHLT 432	Human Factors and Ergonomic Health and	
PHLT 313	Health Care and Public Health System	3		Safety	
PHLT 314	Public Health Data Management and	2	PHLT 433	Industrial Inspections and Audit Techniques	
	Assessment I	15	PHLT 434	Project Cost Benefit and Economics	
Oi	Semester Credit Hours	15	PHLT 484	Public Health Studies Field Experience	
Spring	Enidemialagy in Dublic Health	2	PHLT 485	Directed Studies	
PHLT 305	Epidemiology in Public Health	3	PHLT 489	Special Topics In	
PHLT 309	Population Health Promotion	3	PHLT 491	Research	
PHLT 311	Narrative Approach to Public Health	1	URPN 370	Health Systems Planning	
PHLT 330	The Environment and Public Health	3	URPN 371	Environmental Health Planning and Policy	
PHLT 412	Health Advocacy and Policy	3	VIBS 401	Developmental Neurotoxicology	
PHLT 315	Public Health Data Management and Assessment II	2	VIBS 407/ NRSC 407	Core Ideas in Neuroscience	
	Semester Credit Hours	15	VIBS 413	Introduction to Epidemiology	
Fourth Year Fall			VIBS 420	Computer Applications in Public Health Research	
PHLT 410	Public Health Communication	3	VTPB 408	Clinical Microbiology	
PHLT 411	Project Management in Public Health	3	VTPB 409	Introduction to Immunology	
PHLT 441	Strategies for Population Health	3	VTPB 438	Biomedical Virology	
	Improvement		VTPB 487/	Biomedical Parasitology	
BSPH Directed			BIOL 487	210.1104.104.1 4.1401.0109)	
	from the following:	9		Semester Credit Hours	18
BESC 314	Pathogens, the Environment and Society		Spring		
BESC 367	U.S. Environmental Regulations		PHLT 307	Public Health in the Global Context	3
BESC 401	Bioenvironmental Microbiology		PHLT 415	Emergency Management in Public Health	3
BICH 410	Comprehensive Biochemistry I		PHLT 445	Applications of Public Health	3
BICH 411	Comprehensive Biochemistry II		BSPH Directed Electives ²		
BICH 412	Biochemistry Laboratory I		Select 6 hours from the following:		6
CHEM 227	Organic Chemistry I		BESC 314	Pathogens, the Environment and Society	
CHEM 237	Organic Chemistry Laboratory		BESC 367	U.S. Environmental Regulations	
CHEM 228	Organic Chemistry II		BESC 401	Bioenvironmental Microbiology	
CHEM 238	Organic Chemistry Laboratory		BICH 410	Comprehensive Biochemistry I	
ENTO 210	Global Public Health Entomology		BICH 411	Comprehensive Biochemistry II	
ENTO 423	Medical Entomology		BICH 412	Biochemistry Laboratory I	
ENTO 431/ FIVS 431	The Science of Forensic Entomology		CHEM 227	Organic Chemistry I	
ENTO 432/	Applied Forensic Entomology		CHEM 237	Organic Chemistry Laboratory	
FIVS 432	Applied Forensic Entomology		CHEM 228	Organic Chemistry II	
GENE 301	Comprehensive Genetics		CHEM 238	Organic Chemistry Laboratory	
GENE 312	Comprehensive Genetics Laboratory		ENTO 210	Global Public Health Entomology	
GENE 320/	Biomedical Genetics		ENTO 423	Medical Entomology	
BIMS 320			ENTO 431/ FIVS 431	The Science of Forensic Entomology	
PHLT 306	Border Health		ENTO 432/	Applied Forensic Entomology	
PHLT 308	Comparative Global Health Systems		FIVS 432	Applied I dielisic Littoffiology	
DULTAGE	0 1 10 1 11 11 11 1		FIV 3 43Z		
PHLT 331 PHLT 332	Occupational Safety and Health I Occupational Safety and Health II		GENE 301	Comprehensive Genetics	

GENE 312	Comprehensive Genetics Laboratory	
GENE 320/ BIMS 320	Biomedical Genetics	
PHLT 333	Accident Investigation	
PHLT 306	Border Health	
PHLT 308	Comparative Global Health Systems	
PHLT 331	Occupational Safety and Health I	
PHLT 332	Occupational Safety and Health II	
PHLT 333	Accident Investigation	
PHLT 334	Fire Safety and Workplace Hazards	
PHLT 335	Hazardous Materials	
PHLT 413	Public Health Informatics	
PHLT 414	Applications of Epidemiology in Public Health	
PHLT 416	Public Health Leadership and Ethics	
PHLT 432	Human Factors and Ergonomic Health and Safety	
PHLT 485	Directed Studies	
PHLT 433	Industrial Inspections and Audit Techniques	
PHLT 434	Project Cost Benefit and Economics	
PHLT 484	Public Health Studies Field Experience	
PHLT 485	Directed Studies	
PHLT 489	Special Topics In	
PHLT 491	Research	
URPN 370	Health Systems Planning	
URPN 371	Environmental Health Planning and Policy	
VIBS 401	Developmental Neurotoxicology	
VIBS 407/ NRSC 407	Core Ideas in Neuroscience	
VIBS 413	Introduction to Epidemiology	
VIBS 420	Computer Applications in Public Health Research	
VTPB 408	Clinical Microbiology	
VTPB 409	Introduction to Immunology	
VTPB 438	Biomedical Virology	
VTPB 487/ BIOL 487	Biomedical Parasitology	
	Semester Credit Hours	15
	Total Semester Credit Hours	120

¹ Chosen in consultation with BSPH academic advisor.

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.

BSPH Directed Electives: courses that constitute the major are those offered by the School of Public Health and those approved for public health studies electives. Additional courses may be available. Students must check with their academic advisor.