



BS in PUBLIC HEALTH: Health Science Emphasis (662545) MAP Sheet

Department of Health Science

For students entering the degree program during the 2016–2017 curricular year.

UNIVERSITY CORE AND GRADUATION REQUIREMENTS				PROGRAM REQUIREMENTS (63-65 total hours)			
UNIVERSITY CORE REQUIREMENTS							
<u>Requirements</u>	<u>#Classes</u>	<u>Hours</u>	<u>Classes</u>				
Religion Cornerstones							
Teachings & Doctrine, Book of Mormon	1	2.0	Rel A 275				
Jesus Christ & the Everlasting Gospel	1	2.0	Rel A 250				
Foundations of the Restoration	1	2.0	Rel C 225				
The Eternal Family	1	2.0	Rel C 200				
The Individual and Society							
Citizenship							
American Heritage	1–2	3–6.0	from approved list				
Global & Cultural Awareness	1	3.0	from approved list				
Skills							
Effective Communication							
First-Year Writing	1	3.0	from approved list				
Adv Written & Oral Communication	1	3.0	Engl 315 or 316 recomm.				
Quantitative Reasoning	0–1	0–3.0	from approved list				
Languages of Learning (Math or Language)	1	3.0	Stat 121 recommended				
Arts, Letters, and Sciences							
Civilization 1 and 2	2	6.0	from approved list				
Arts	1	3.0	from approved list				
Letters	1	3.0	from approved list				
Scientific Principles & Reasoning							
Biological Science	2	5.0	MMBio 240* & PDBio 120*				
Physical Science	2	7.0	Chem 105* and Phscs 105* or 121*				
Social Science	1	3.0	from approved list				
Core Enrichment: Electives							
Religion Electives	3–4	6.0	from approved list				
Open Electives	Variable	Variable	personal choice				
GRADUATION REQUIREMENTS:		30.0					
Minimum residence hours required		120.0					
Minimum hours needed to graduate							
				Complete the following courses:			
				Hlth 100	Introduction to Public Health	1.0	
				Hlth 310	Chronic Diseases: Prevention & Control	3.0	
				Hlth 311	Infectious Diseases: Preventn & Control	3.0	
				Hlth 322	Environmental Health	3.0	
				Hlth 330	Principles & Practices of Hlth Promotn	3.0	
				Hlth 335	Health Behavior Change	3.0	
				Hlth 345	Principles of Epidemiology	3.0	
				Hlth 434	Evaluation Methods	3.0	
				Hlth 439	Program Planning	3.0	
				Hlth 447	Introduction to Biostatistics	3.0	
				Complete three credit hours (42 hours per credit) of the following:			
				Hlth 496R	Academic Internship	9.0V	
				Note 1: Prior to taking Hlth 496R, the student must complete Hlth 100, 310, 330, 434, and 439 with a C-grade or higher.			
				Note 2: Internships may have a combination of mentored public health practice experience, research, and/or humanitarian service elements.			
				Complete one of the following chemistry options:			
				Either			
				Chem 105*	General College Chemistry	4.0	
				Chem 106	General College Chemistry	3.0	
				Chem 107	General College Chemistry Lab	1.0	
				Or			
				Chem 111	Principles of Chemistry	3.0	
				Chem 112	Principles of Chemistry	3.0	
				Chem 113	Introductory General Chemistry Lab	2.0	
				Complete the following chemistry courses:			
				Chem 351	Organic Chemistry	3.0	
				Chem 352	Organic Chemistry	3.0	
				Chem 353	Organic Chemistry Lab - Nonmajors	2.0V	
				(Must take 2 credit hours if preprofessional.)			
				Complete the following biology courses:			
				MMBio 240	Molecular Biology	3.0	
				MMBio 241	Molecular & Cellular Bio Lab	1.0	
				PDBio 120	Science of Biology	2.0	
				Note: MMBio 121 may be taken as an alternative to PDBio 120.			
				Complete one of the following biology options: (7 hours)			
				Either			
				PDBio 210	Human Anatomy (with virtual lab)	3.0	
				OR			
				PDBio 220	Human Anatomy (with lab)	3.0	
				AND			
				PDBio 305	Human Physiology	4.0	
				Complete one of the following physics options:			
				Either			
				Phscs 105	General Physics 1	3.0	
				Phscs 107	General Physics Lab 1	1.0	
				Or			
				Phscs 107	General Physics Lab 1	1.0	
				Phscs 121	Intro to Newtonian Mechanics	3.0	
				Recommended GE Courses:			
				Math 112	Calculus 1	4.0	
				Stat 121	Principles of Statistics	3.0	
				Recommended Courses:			
				Chem 481	Biochemistry	3.0	
				Hlth 481	Applied International Health	3.0V	
				Hlth 492R	Directed Public Health Readings	3.0	
				PDBio 325	Tissue Biology (with lab)	3.0	
				PDBio 360	Cell Biology	3.0	
				PDBio 362	Advanced Physiology	3.0	
				PDBio 363	Advanced Physiology	1.0	
				PDBio 365	Pathophysiology	4.0	
				Phscs 106	General Physics 2	3.0	
				Phscs 108	General Physics Lab 2	1.0	
				PWS 340	Genetics	3.0	
				MCAT Prep Course (if taking MCAT)			
				Your major advisor is:			
				Beth Liechty			
				2148 LSB			
				422-8950			
				Your internship advisor is:			
				Stephanie Lutz			
				2060 LSB			
				422-1943			
				Professional Advisement Center:			
				3326 WSC			
				422-8166			

*THESE COURSES FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS (12 hours overlap)

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2016–2017**

Suggested Sequence of Courses:

FRESHMAN YEAR

1st Semester

1 st Year Writing	3.0
OR A Htg 100	(3.0)
Hlth 100	1.0
Religion Cornerstone course	2.0
PDBio 120	2.0
Chem 105	4.0
Global & Cultural Awareness elective	3.0
Quantitative Reasoning elective (If needed)	0–3.0
Total Hours	15–18.0

2nd Semester

1 st Year Writing	3.0
OR A Htg 100	(3.0)
Hlth 330	3.0
Chem 106 and 107	4.0
PDBio 220 or 210	3.0
Religion Cornerstone course	2.0
Civilization 1 elective	3.0
Total Hours	18.0

SOPHOMORE YEAR

3rd Semester

Languages of Learning (Stat 121 recommended)	3.0
MMBio 240 & 241 (Biological Science)	4.0
Phscs 105 and 107 (Physical Science)	4.0
Religion Cornerstone course	2.0
Civilization 2 elective	3.0
Total Hours	16.0

4th Semester

Hlth 310	3.0
Hlth 434	3.0
Phscs 106 and 108	4.0
Religion Cornerstone course	2.0
Arts or Letters elective	3.0
Total Hours	15.0

Spring Term

Hlth 439	3.0
Total Hours	3.0

*Public Health Internship after sophomore year. Student must have taken Hlth 100, 310, 330, 434, and 439.

JUNIOR YEAR

5th Semester

Chem 351	3.0
Hlth 311	3.0
PDBio 305 (or PDBio 362 and 363)	(4.0)
Religion Elective (FWSpSu)	2.0
Arts or Letters elective	3.0
Total Hours	15.0

6th Semester

Chem 352	3.0
Chem 353	2.0
Hlth 322	3.0
PWS 340 (FWSp)	2.0
Religion Elective (FWSpSu)	2.0
Social Science elective	3.0
Total Hours	15.0

SENIOR YEAR

7th Semester

Hlth 345	3.0
Hlth 335	3.0
Religion elective	2.0
Engl 315 or 316 (Adv. Written/Oral Comm)	3.0
Total Hours	11.0

8th Semester

Hlth 447	3.0
General electives	9.0
Total Hours	12.0

THE DISCIPLINE:

Public health professionals work to create conditions that ensure the health and safety of individuals, families, and communities. Public health students are trained to inform, educate, and empower people about health issues; mobilize communities to take ownership for their own health; monitor health status and diagnose and investigate health problems and health hazards; develop policies and laws to protect health and ensure safety; and link people to needed health services. The public health mission is carried out through organized, interdisciplinary efforts that address the physical, mental, and environmental health concerns of communities and populations at risk for disease and injury.

Four of several disciplines within public health are represented as emphases within the major: (1) environmental/occupational health identifies and controls factors in the environment (air, water, food, toxins, etc.) or conditions at the workplace which affect health; (2) epidemiology investigates and discovers what causes disease and disability and how diseases are spread or distributed across populations; (3) health promotion facilitates behavior change among individuals and improves population health through policy, advocacy, education, and communication; and (4) health science trains students interested in working in public health after earning an advanced degree in a medical, dental, or other allied health area.

CAREER OPPORTUNITIES:

Public health is an exciting field of study and a diverse and dynamic profession. It is filled with rewards associated with the pursuit of serving others. The development and delivery of population-based prevention programs will be the key to major advances in health improvement in the 21st century. Public health will continue to be called upon to monitor and assess health problems, prevent and control diseases and injuries, and protect the health of communities and

worksites from various environmental and occupational risks associated with man-made and natural disasters and emergencies.

With the appropriate practice experiences, public health graduates have increased qualifications to work in governmental health agencies on the local, state, federal, and international levels. Private-sector employment can be found in a variety of businesses, community health agencies, managed care organizations, hospitals, clinics, research institutes, voluntary health agencies, and non-governmental organizations. Opportunities for employment in public health are available, but recruiters will not typically come to campus to hire graduates. This means graduates must be organized and proactive in their career planning. Students can increase the likelihood of obtaining a position by balancing classroom activities with voluntary or paid service to public health agencies. Obtaining certifications related to specific tracks within the major and careful development of a professional portfolio enhance employment opportunities.

While there are many specialties or disciplines in public health, most career opportunities are found in the tracks associated with the major. Entry-level salaries with a bachelor's degree in public health will range from approximately \$35,000–\$60,00 but will vary significantly depending upon the specific discipline, type of organization, and geographic location.

For more information on careers in your major, please refer to *From Major to Career*, a publication which is located in all college advisement centers.

This handout is NOT a contract between Brigham Young University and present or prospective students. Although the university makes every effort to ensure the accuracy of this information, it reserves the right to make changes as university business may require. Students should regularly consult their department or college advisement center.

Please check with departments for current availability of all courses.

Note: Students are encouraged to complete an average of 15 credit hours each semester or 30 credit hours each year, which could include spring and/or summer terms. Taking fewer credits substantially increases the cost and the number of semesters to graduate.

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