



# BS in PUBLIC HEALTH: Epidemiology Emphasis (662543) 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 (56 total hours)					
<b>UNIVERSITY CORE REQUIREMENTS</b>				<b>Complete the following courses:</b>					
<u>Requirements</u>	<u>#Classes</u>	<u>Hours</u>	<u>Classes</u>	Hlth 100	Introduction to Public Health	1.0	Soc 300	Methods of Research in Sociology	3.0
<b>Religion Cornerstones</b>				Hlth 310	Chronic Diseases: Prevention & Control	3.0	Stat 124	SAS Base Programming Skills	1.0
Teachings & Doctrine, Book of Mormon	1	2.0	Rel A 275	Hlth 311	Infectious Diseases: Prevention & Control	3.0	Stat 125	SAS Certification 2	1.0
Jesus Christ & the Everlasting Gospel	1	2.0	Rel A 250	Hlth 322	Environmental Health	3.0	Stat 230	Analysis of Variance	3.0
Foundations of the Restoration	1	2.0	Rel C 225	Hlth 330	Principles & Practices of Health Promotn	3.0	Stat 234	Methods of Survey Sampling	3.0
The Eternal Family	1	2.0	Rel C 200	Hlth 345	Principles of Epidemiology	3.0	Stat 330	Introduction to Regression	3.0
<b>The Individual and Society</b>				Hlth 434	Evaluation Methods	3.0	<b>†Note 1:</b> If a student uses an ACT score to fulfill the Math 110 requirement, 22 elective hours are needed.		
Citizenship				Hlth 440	Computer Applications in Epidemiology	3.0	<b>**Note 2:</b> Only 6 credits of elective credits from Hlth 324, 420, 439, 442, 450, 460, 466, and 480 can be applied toward the degree.		
American Heritage	1–2	3–6.0	from approved list	Hlth 441	Clinical Trials	3.0	<b>***Note 3:</b> Prerequisites for PDBio 305 are Chem 101 or equivalent; PDBio 210 or 220.		
Global & Cultural Awareness	1	3.0	from approved list	Hlth 443	Field Epidemiology	3.0	<b>†Note 4:</b> Prerequisites for PDBio 362 are MMBio 240; Phscs 106 or 220.		
<b>Skills</b>				Hlth 447	Introduction to Biostatistics	3.0	<b>§Note 5:</b> Prerequisites for PDBio 365 are PDBio 305 or PDBio 362.		
Effective Communication				Stat 121*	Principles of Statistics	3.0	<b>Recommended GE Courses:</b>		
First-Year Writing	1	3.0	from approved list	<b>Complete the following course:</b>				Engl 315	Writing in the Social Sciences
Adv Written & Oral Communication	1	3.0	Engl 315 or 316 recomm.	Math† 110*	College Algebra	3.0	or Engl 316	Technical Communication	
Quantitative Reasoning	1	4.0	Math 110*	<b>Complete 19-22 hours from the following:</b>				Stat 121	Principles of Statistics
Languages of Learning (Math or Language)	1	3.0	Stat 121*	Geog 212	Introduction to GIS	3.0	<b>Recommended Elective Courses:</b>		
<b>Arts, Letters, and Sciences</b>				Hlth 324**	Occupational Health & Safety	3.0	• Math 112, 113 for students who want a firm foundation in calculus and/or plan to pursue graduate education.		
Civilization 1 and 2	2	6.0	from approved list	Hlth 420**	Injury & Violence Prevention	3.0	• Students considering graduate work in epidemiology are encouraged to consider the statistics electives.		
Arts	1	3.0	from approved list	Hlth 439**	Program Planning	3.0	Your major advisor is:		
Letters	1	3.0	from approved list	Hlth 442**	Special Topics in Epidemiology	3.0	Beth Liechty		
Scientific Principles & Reasoning				Hlth 450**	Women's Health Issues	3.0	2148 LSB		
Biological Science	1–2	3–5.0	from approved list	Hlth 460**	Substance Abuse and Addictive Behavior	3.0	422-8950		
Physical Science	1–2	3–7.0	Chem 105 (recommended) & one course from approved list	Hlth 466**	Health and the Aging Process	3.0	Your internship coordinator is:		
Social Science	1	3.0	from approved list	Hlth 480**	International Health	3.0	Stephanie Lutz		
<b>Core Enrichment: Electives</b>				Hlth 481	Applied International Health	3.0V	2060 LSB		
Religion Electives	3–4	6.0	from approved list	Hlth 491R	Mentored Research (up to 3 hours)	3.0V	422-1943		
Open Electives	Variable	Variable	personal choice	Hlth 482R	Directed Public Health Readings	3.0V			
<b>GRADUATION REQUIREMENTS:</b>		30.0		Hlth 496R	Academic Internship (up to 3 hours)	9.0V			
Minimum residence hours required		120.0		(Prior to taking Hlth 496R, student must complete Hlth 100, 310, 311, 322, 330, 345, 440, & 443 with a C- grade or higher.)					
Minimum hours needed to graduate				Math 112	Calculus 1	4.0			
				Math 113	Calculus 2	4.0			
				Math 116	Essentials of Calculus	1.0			
				NDFS 201	Society, Nutrition, and Chronic Disease	2.0			
				NDFS 380	International Nutrition	3.0			
				PDBio 120	Science of Biology	2.0			
				PDBio 205	Human Biology	3.0			
				(An Independent Study Online course)					
				PDBio 305***	Human Physiology	4.0			
				PDBio 362†	Advanced Physiology	3.0			
				PDBio 365§	Pathophysiology	4.0			
				(Continued in next column)					

\*THESE COURSES FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS (7 hours overlap)

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2016–2017**

***Suggested Sequence of Courses:***

**FRESHMAN YEAR**

1st Semester

1 <sup>st</sup> Year Writing	3.0
OR A Htg 100	(3.0)
Religion Cornerstone course	2.0
Hlth 100	1.0
Major elective	3.0
Global & Cultural Awareness elective	3.0
Quantitative Reasoning elective (if needed)	0-3.0
General elective	0-3.0
<b>Total Hours</b>	<b>15.0</b>

2nd Semester

1 <sup>st</sup> Year Writing	3.0
OR A Htg 100	(3.0)
Hlth 310	3.0
Major elective	3.0
Religion Cornerstone course	2.0
Civilization 1 elective	3.0
General elective	1.0
<b>Total Hours</b>	<b>15.0</b>

**SOPHOMORE YEAR**

3rd Semester

Hlth 311	3.0
Religion Cornerstone course	2.0
Civilization 2 elective	3.0
Social Science elective	3.0
Major elective (Math 112 recommended)	4.0
<b>Total Hours</b>	<b>15.0</b>

4th Semester

Hlth 345	3.0
Religion Cornerstone course	2.0
Stat 121	3.0
Major elective	3.0
Arts or Letters elective	3.0
General elective	1.0
<b>Total Hours</b>	<b>15.0</b>

**JUNIOR YEAR**

5th Semester

Major elective	3-4.0
Hlth 322	3.0
Hlth 330	3.0
Religion elective	2.0
Biological Science elective	3.0
General elective	1.0
<b>Total Hours</b>	<b>15-16.0</b>

6th Semester

Hlth 434	3.0
Hlth 440	3.0
Major elective	3.0
Adv. Written & Oral Communication	3.0
Religion elective	2.0
General elective	1.0
<b>Total Hours</b>	<b>15.0</b>

**SENIOR YEAR**

7th Semester

Hlth 443	3.0
Major elective	3.0
Religion elective	2.0
Arts or Letters elective	3.0
Physical Science elective	3.0
General elective	1.0
<b>Total Hours</b>	<b>15.0</b>

8th Semester

Hlth 441	3.0
Hlth 447	3.0
Major elective and/or General electives	9.0
<b>Total Hours</b>	<b>15.0</b>

**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 21<sup>st</sup> 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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