



# BS in PUBLIC HEALTH: Environmental/Occupational Health Emphasis (662542) 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 (55 total hours)		
UNIVERSITY CORE REQUIREMENTS				<b>Complete the following courses:</b> Chem 105* General College Chemistry 4.0 Chem 106 General College Chemistry 3.0 Chem 107 General College Chemistry lab 1.0 Hlth 100 Introduction to Public Health 1.0 Hlth 310 Chronic Diseases: Prevention & Control 3.0 Hlth 311 Infectious Diseases: Prevention & Control 3.0 Hlth 322 Environmental Health 3.0 Hlth 324 Occupational Health & Safety 3.0 Hlth 330 Principles & Practices of Health Promotion 3.0 Hlth 345 Principles of Epidemiology 3.0 Hlth 420 Injury & Violence Prevention 3.0 Hlth 426 Fundamentals of Toxicology 3.0 Hlth 428 Sampling & Exposure Assessment Lab 3.0 Math 110* College Algebra 3.0 MMBio 221* General Microbiology 1.0 MMBio 222 General Microbiology Lab 1.0  <b>Complete 12 hours from the following:</b> Chem 223 Quantitative & Qualitative Analysis (Prereq: Chem 107 or 113) 4.0 Chem 285 Introductory Bio-organic Chemistry (Prereq: Chem 101 or equivalent) 4.0 Geog 101 Global Environment: Physical Geog 3.0 Geog 212 Intro to GIS 3.0 Geog 303 Biogeography (Prereq: Geog 100, 101, or instructor consent) 3.0 Hlth 422 Disaster Response & Emergency Prep 3.0 Hlth 481 Applied International Health 3.0V Hlth 491R Mentored Research (up to 3 hours) 3.0V Hlth 492R Directed Public Health Readings 3.0V Hlth 496R**Academic Internship 9.0V MMBio 261 Infection & Immunity 3.0 MMBio 417 Medical Parasitology 3.0 MMBio 465 Virology (Prereq: MMBio 261 or equivalent) 3.0 NDFS 361 Food Microbiology (Prereq: MMBio 221 and 222) 3.0 PDBio 305 Human Physiology (with lab) (Prerequisite: Chem 101 or equivalent; PDBio 220 or 210) 4.0 PDBio 365 Pathophysiology (Prerequisite: PDBio 305) 4.0 PWS 150 Environmental Biology 3.0		
Requirements #Classes Hours Classes  <b>Religion Cornerstones</b> 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  <b>The Individual and Society</b> Citizenship American Heritage 1-2 3-6.0 from approved list Global & Cultural Awareness 1 3.0 from approved list  <b>Skills</b> 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 Math 110* Languages of Learning (Math or Language) 1 3.0 Stat 121 recommended  <b>Arts, Letters, and Sciences</b> 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 1 3.0 MMBio 221* Physical Science 1-2 3-7.0 Chem 105* and 1 course from approved list Social Science 1 3.0 from approved list  <b>Core Enrichment: Electives</b> Religion Electives 3-4 6.0 from approved list Open Electives Variable Variable personal choice				Your major advisor is: Beth Liechty 2148 LSB 422-8950  Your internship coordinator is: Stephanie Lutz 2060 LSB 422-1943		
GRADUATION REQUIREMENTS: Minimum residence hours required 30.0 Minimum hours needed to graduate 120.0				<b>**Note:</b> If Hlth 496R is chosen, the student must first complete Hlth 100, 310, 311, 322, 324, 330, 345, and 420 with a C- grade or higher.		

\*THESE COURSES FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS (10 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
Math 110	
(Quantitative Reasoning, if needed)	3.0
Hlth 100	1.0
Civilization 1 elective	3.0
Global & Cultural Awareness elective	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
Religion Cornerstone course	2.0
MMBio 221 & 222 (Biological Science)	4.0
Civilization 2 elective	3.0
<b>Total Hours</b>	<b>15.0</b>

**SOPHOMORE YEAR**

3rd Semester

Hlth 311	3.0
Chem 105	4.0
Religion Cornerstone course	2.0
Social Science elective	3.0
General elective	3.0
<b>Total Hours</b>	<b>15.0</b>

4th Semester

Hlth 322	3.0
Religion Cornerstone course	2.0
Chem 106 & 107	4.0
General elective	3.0
<b>Total Hours</b>	<b>15.0</b>

**JUNIOR YEAR**

5th Semester

Hlth 330	3.0
Hlth 345	3.0
Major elective	3.0
Languages of Learning elective	3.0
Arts or Letters elective	3.0
Religion elective	2.0
<b>Total Hours</b>	<b>17.0</b>

6th Semester

Hlth 324	3.0
Hlth 426	3.0
Major elective	3.0
Adv. Written & Oral Communication	3.0
Arts or Letters elective	3.0
Religion elective	2.0
<b>Total Hours</b>	<b>17.0</b>

**SENIOR YEAR**

7th Semester

Hlth 420	3.0
Hlth 428	3.0
Major elective	3.0
Physical Science elective	3.0
Religion elective	2.0
<b>Total Hours</b>	<b>14.0</b>

8th Semester

Hlth 422	3.0
Major elective	3.0
General electives	6.0
<b>Total Hours</b>	<b>12.0</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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