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

#### UNIVERSITY CORE REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirements</th>
<th>#Classes</th>
<th>Hours</th>
<th>Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religion Cornerstones</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Teachings &amp; Doctrine, Book of Mormon</td>
<td>1</td>
<td>2.0</td>
<td>Rel A 275</td>
</tr>
<tr>
<td>Jesus Christ &amp; the Everlasting Gospel</td>
<td>1</td>
<td>2.0</td>
<td>Rel A 250</td>
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<tr>
<td>Foundations of the Restoration</td>
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<td>2.0</td>
<td>Rel C 225</td>
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<tr>
<td>The Eternal Family</td>
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<td>2.0</td>
<td>Rel C 200</td>
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<tr>
<td>The Individual and Society</td>
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<td></td>
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<tr>
<td>Citizenship</td>
<td>1–2</td>
<td>3–6.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Global &amp; Cultural Awareness</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Skills</td>
<td></td>
<td></td>
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<tr>
<td>Effective Communication</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>First-Year Writing</td>
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<tr>
<td>Adv Written &amp; Oral Communication</td>
<td>1</td>
<td>3.0</td>
<td>Engl 315 or 316 recomm.</td>
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<tr>
<td>Quantitative Reasoning</td>
<td>0–1</td>
<td>0–3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Languages of Learning (Math or Language)</td>
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<td>3.0</td>
<td>Stat 121 recommended</td>
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<tr>
<td>Arts, Letters, and Sciences</td>
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<tr>
<td>Civilization 1 and 2</td>
<td>2</td>
<td>6.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Arts</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Letters</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Scientific Principles &amp; Reasoning</td>
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<tr>
<td>Biological Science</td>
<td>2</td>
<td>5.0</td>
<td>MMBio 240* &amp; PDBio 120*</td>
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<tr>
<td>Physical Science</td>
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<td>7.0</td>
<td>Chem 105* and Phscs 105* or 121*</td>
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<tr>
<td>Social Science</td>
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<td>from approved list</td>
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<tr>
<td>Core Enrichment: Electives</td>
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<tr>
<td>Religion Electives</td>
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<td>6.0</td>
<td>from approved list</td>
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<tr>
<td>Open Electives</td>
<td>Variable</td>
<td>Variable</td>
<td>personal choice</td>
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</tbody>
</table>

#### GRADUATION REQUIREMENTS:

- Minimum residence hours required: 30.0
- Minimum hours needed to graduate: 120.0

### PROGRAM REQUIREMENTS (63-65 total hours)

#### Complete the following courses:

- Hith 100 Introduction to Public Health 1.0
- Hith 310 Chronic Diseases: Prevention & Control 3.0
- Hith 311 Infectious Diseases: Prevention & Control 3.0
- Hith 322 Environmental Health 3.0
- Hith 330 Principles & Practices of Hith Promotions 3.0
- Hith 335 Health Behavior Change 3.0
- Hith 345 Principles of Epidemiology 3.0
- Hith 434 Evaluation Methods 3.0
- Hith 439 Program Planning 3.0
- Hith 447 Introduction to Biostatistics 3.0

#### Complete three credit hours (42 hours per credit) of the following:

- Hith 496R Academic Internship 9.0

#### Note 1:

Prior to taking Hith 496R, the student must complete Hith 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 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 (Must take 2 credit hours if preprofessional) 2.0

#### Complete the following biology options:

**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
- Hith 481 Applied International Health 3.0
- Hith 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 3.0
- 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) 3.0

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)*
BS in PUBLIC HEALTH: Health Science Emphasis (662545)
2016–2017

Suggested Sequence of Courses:

FRESHMAN YEAR
1st Semester
1st Year Writing 3.0
*Public Health Internship after sophomore year.
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 0–3.0
(If needed)
Total Hours 15–18.0

2nd Semester
1st 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 3.0
(Stat 121 recommended)
M McBio 240 & 241 (Biological Science) 4.0
Phs cs 105 and 107 (Physical Science) 4.0
Religion Cornerstone course 2.0
Civilization 2 elective 3.0
Total Hours 15.0

4th Semester
Hlth 310 3.0
Hlth 330 3.0
Phs cs 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

JUNIOR YEAR
5th Semester
Hlth 311 3.0
PDBio 305 4.0
(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 351 3.0
Hlth 311 3.0
PDBio 362 or 363 4.0
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, toxics, etc.) or conditions at the workplace that 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.