### University Core and Graduation Requirements

<table>
<thead>
<tr>
<th>University Core Requirements:</th>
<th>Suggested Sequence of Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Requirements</strong></td>
<td><strong>FRESHMAN YEAR</strong></td>
</tr>
<tr>
<td><strong>Classes</strong></td>
<td><strong>3rd Semester</strong></td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td><strong>Total Hours</strong></td>
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<tr>
<td><strong>Classes</strong></td>
<td><strong>Total Hours</strong></td>
</tr>
<tr>
<td><strong>Religion Cornerstones</strong></td>
<td>REL A 275 <strong>1.0</strong></td>
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<tr>
<td>Teachings and Doctrine of The Book of Mormon</td>
<td>REL A 250 <strong>1.0</strong></td>
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<tr>
<td>Jesus Christ and the Everlasting Gospel</td>
<td>REL C 225 <strong>1.0</strong></td>
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<tr>
<td>Foundations of the Restoration</td>
<td>REL C 200 <strong>1.0</strong></td>
</tr>
<tr>
<td>The Eternal Family</td>
<td>Teaching Cornerstone course</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>16.0</strong></td>
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<tr>
<td><strong>Great and Cultural Awareness</strong></td>
<td><strong>Total Hours</strong></td>
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<tr>
<td>American Heritage</td>
<td>HLTH 210 <strong>3.0</strong></td>
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<tr>
<td>Global and Cultural Awareness</td>
<td>HLTH 314 <strong>3.0</strong></td>
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<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15.0</strong></td>
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<tr>
<td><strong>Skills</strong></td>
<td><strong>4th Semester</strong></td>
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<tr>
<td>First Year Writing</td>
<td>HLTH 101 <strong>3.0</strong></td>
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<tr>
<td>Advanced Written and Oral Communications</td>
<td>HLTH 102 <strong>3.0</strong></td>
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<tr>
<td>Quantitative Reasoning</td>
<td>HLTH 103 <strong>3.0</strong></td>
</tr>
<tr>
<td>Languages of Learning (Math or Language)</td>
<td>HLTH 104 <strong>3.0</strong></td>
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<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15.0</strong></td>
</tr>
<tr>
<td><strong>Arts, Letters, and Sciences</strong></td>
<td><strong>5th Semester</strong></td>
</tr>
<tr>
<td>Civilization 1</td>
<td>HLTH 324 <strong>3.0</strong></td>
</tr>
<tr>
<td>Civilization 2</td>
<td>HLTH 325 <strong>3.0</strong></td>
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<tr>
<td>Arts</td>
<td>HLTH 326 <strong>3.0</strong></td>
</tr>
<tr>
<td>Letters</td>
<td>HLTH 327 <strong>3.0</strong></td>
</tr>
<tr>
<td>Biological Science</td>
<td>HLTH 328 <strong>3.0</strong></td>
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<tr>
<td>Physical Science</td>
<td>HLTH 429 <strong>3.0</strong></td>
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<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15.0</strong></td>
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<tr>
<td><strong>Social Science</strong></td>
<td><strong>6th Semester</strong></td>
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<tr>
<td><strong>Core Enrichment: Electives</strong></td>
<td><strong>Total Hours</strong></td>
</tr>
<tr>
<td>Religion Electives</td>
<td><strong>Total Hours</strong></td>
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<tr>
<td>Open Electives</td>
<td><strong>Total Hours</strong></td>
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<tr>
<td><strong>Total Hours</strong></td>
<td><strong>16.0</strong></td>
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<tr>
<td><strong>Graduation Requirements:</strong></td>
<td><strong>Note:</strong> 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.</td>
</tr>
<tr>
<td>Minimum residence hours required</td>
<td>Please check with departments for current availability of all courses.</td>
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<tr>
<td>Minimum hours needed to graduate</td>
<td><strong>Offered FALL only</strong></td>
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</tbody>
</table>

*Offered FALL only
**Offered WINTER only

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**BS in Public Health: Environmental/Occupational Health (662542) MAP Sheet**

Life Sciences, Public Health

For students entering the degree program during the 2018-2019 curricular year.
BS in Public Health: Environmental/Occupational Health (662542)
2018-2019 Program Requirements (60 Credit Hours)

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. The environmental/occupational health emphasis trains students to identify and control factors in the environment (air, water, food, toxins, etc.) or conditions at the workplace which affect health; (2) the epidemiology emphasis prepares students to investigate and discover what causes disease and disability and how diseases are spread or distributed across populations; (3) health promotion emphasis students are prepared to facilitate health behavior change among individuals and improves population health through policy, advocacy, education, and communication; and (4) the health science emphasis educates students on the relationship of public health with primary health care and other sectors, including the natural sciences, relevant to improving health. Health science students go on to pursue advanced degrees in medicine, dentistry, or other allied health areas.

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

With the appropriate practice experiences, public health graduates with an emphasis in environmental/occupational health have increased qualifications to work in governmental health agencies on the local and state levels. Private-sector employment can be found in a variety of businesses (manufacturing, construction, workers compensation insurance companies, health and safety consulting), municipalities, healthcare agencies, research institutes, voluntary health agencies, and non-governmental organizations. Jobs at the federal and international levels often require work experience and a graduate degree.

Opportunities for employment in environmental/occupational health are available and several times throughout the year recruiters may come to campus to hire graduates. 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 internships with public or private organizations. Obtaining certifications (CPR/First Aid/AED, OSHA 30-hour certificate, HAZWOPER Technician, ASP, CSP, CIH, QEP, CHMM) and careful development of a professional portfolio enhance employment opportunities.

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### REQUIREMENT 1
Complete 1 course
- HLTH 100 - (Not currently offered)
- HLTH 210 - Foundations of Public Health 3.0

### REQUIREMENT 2
Complete 1 course
- HLTH 310 - (Not currently offered)
- HLTH 314 - Health, Disease and Their Determinants, Part 1 3.0

### REQUIREMENT 3
Complete 1 course
- HLTH 311 - (Not currently offered)
- HLTH 315 - Health, Disease and Their Determinants, Part 2 3.0

### REQUIREMENT 4
Complete 14 courses
- CHEM 105 - General College Chemistry 1 with Lab (Integrated) 4.0
- CHEM 106 - General College Chemistry 2 3.0
- CHEM 107 - General College Chemistry Laboratory 1.0
- HLTH 312 - Introduction to Planning, Interventions, and Evaluation 3.0
- HLTH 313 - Introduction to Data Collection and Analysis 3.0
- HLTH 315 - Influencing Health through Health Systems and Policy 3.0
- HLTH 322 - Environmental Health 3.0
- HLTH 324 - Occupational Health and Safety 3.0
- HLTH 426 - Fundamentals of Toxicology 3.0
- HLTH 428 - Sampling and Exposure Assessment Lab 1 3.0
- HLTH 429 - Sampling and Exposure Assessment Lab 2 3.0
- MMBIO 221 - General Microbiology 3.0
- MMBIO 222 - General Microbiology Laboratory 1.0
- STAT 121 - Principles of Statistics 3.0

### REQUIREMENT 5
Complete 1 option
- **OPTION 5.1** Complete 3.0 hours from the following course(s)
  - HLTH 496R - Academic Internship: Environmental/Occupational Health 3.0
  - You may take up to 3 credit hours.

  **Note:** Prior to taking HLTH 496R, complete HLTH 210, 312, 313, 314, 315, 322, 324, 428 with a C- grade or higher. 42 contact hours are required for each credit hour.

### REQUIREMENT 6
Complete 9.0 hours from the following course(s)
- CHEM 223 - Quantitative and Qualitative Analysis 4.0
- CHEM 225 - Introductory Bio-organic Chemistry 4.0
- GEOG 101 - Global Environment: Understanding Physical Geography 3.0
- GEOG 303 - Biogeography 3.0
- HLTH 345 - Principles of Epidemiology 3.0
- HLTH 420 - Injury and Violence Prevention 3.0
- HLTH 422 - Disaster Response and Emergency Preparedness 3.0
- HLTH 481 - Applied International Health 3.0

### RECOMMENDED
- ENGL 315 - Writing in the Social Sciences 3.0
- ENGL 316 - Technical Communication 3.0

### HLTH 482 - Medical Geography 3.0
- You may take up to 3 credit hours.

### HLTH 491R - Mentored Research 3.0v
- You may take up to 3 credit hours.

### HLTH 492R - Directed Public Health Readings 3.0v
- You may take up to 3 credit hours.

### MMBIO 261 - Infection and Immunity 3.0
- MMBIO 418 - Medical Parasitology 2.0
- MMBIO 465 - Virology 3.0
- NDFS 361 - Food Microbiology 3.0
- PDBIO 305 - Human Physiology 4.0
- PDBIO 365 - Pathophysiology 4.0
- PWS 150 - Environmental Biology 3.0

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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 environmental/occupational health will range from approximately $42,000–$70,000 but will vary significantly depending upon the specific discipline, type of organization, and geographic location. For more information about pay of environmental health scientists visit: https://www.bls.gov/ooh/life-physical-and-social-science/environmental-scientists-and-specialists.htm#tab-5. For more information about pay of occupational health and safety specialists visit: https://www.bls.gov/ooh/healthcare/occupational-health-and-safety-specialists-and-technicians.htm#tab-5.

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.

MAP DISCLAIMER

While every reasonable effort is made to ensure accuracy, there are some student populations that could have exceptions to listed requirements. Please refer to the university catalog and your college advisement center/department for complete guidelines.

DEPARTMENT INFORMATION

Public Health Department
Brigham Young University
4103 Life Sciences Building
Provo, UT 84602
Telephone: (801) 422-4428

ADVISEMENT CENTER INFORMATION

Life Sciences Advisement
Brigham Young University
2060 Life Sciences Building
Provo, UT 84602
Telephone: (801) 422-3042
lifesciences@byu.edu