

# BS in Public Health: Epidemiology (662543) MAP Sheet

Life Sciences, Health Science

For students entering the degree program during the 2017-2018 curricular year.



University Core and Graduation Requirements			Suggested Sequence of Courses
<b>University Core Requirements:</b>			
<b>Requirements</b>	<b>#Classes</b>	<b>Hours</b>	<b>Classes</b>
<b>Religion Cornerstones</b>			
Teachings and Doctrine of The Book of Mormon	1	2.0	REL A 275
Jesus Christ and 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>			
American Heritage	1-2	3-6.0	from approved list
Global and Cultural Awareness	1	3.0	from approved list
<b>Skills</b>			
First Year Writing	1	3.0	from approved list
Advanced Written and Oral Communications	1	3.0	ENGL 315 or 316 recomm.
Quantitative Reasoning	1	3.0	MATH 110*
Languages of Learning (Math or Language)	1	3.0	STAT 121*
<b>Arts, Letters, and Sciences</b>			
Civilization 1	1	3.0	from approved list
Civilization 2	1	3.0	from approved list
Arts	1	3.0	from approved list
Letters	1	3.0	from approved list
Biological Science	1	3-4.0	from approved list
Physical Science	1-2	4-7.0	CHEM 105 (recommended) & one 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
*THESE COURSES FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS (7 hours overlap)			
<b>Graduation Requirements:</b>			
Minimum residence hours required		30.0	
Minimum hours needed to graduate		120.0	
			<b>FRESHMAN YEAR</b>
			<u>1st Semester</u>
			1st Year Writing 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 15.0</b>
			<u>2nd Semester</u>
			1st Year Writing OR A HTG 100 3.0
			HLTH 310 3.0
			Religion Cornerstone course 2.0
			Civilization 1 elective 3.0
			STAT 121 3.0
			General elective 1.0
			<b>Total Hours 15.0</b>
			<b>SOPHOMORE YEAR</b>
			<u>3rd Semester</u>
			HLTH 345 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 15.0</b>
			<u>4th Semester</u>
			HLTH 330 3.0
			Religion Cornerstone course 2.0
			Major elective 3.0
			Major elective 3.0
			Arts or Letters elective 3.0
			General elective 1.0
			<b>Total Hours 15.0</b>
			<b>JUNIOR YEAR</b>
			<u>5th Semester</u>
			Major elective 3-4.0
			HLTH 440*** 3.0
			HLTH 443*** 3.0
			Religion elective 2.0
			Biological Science elective 3.0
			General elective 1.0
			<b>Total Hours 15-16.0</b>
			<u>6th Semester</u>
			HLTH 441** 3.0
			HLTH 447 3.0
			Major elective 3.0
			Adv. Written & Oral Communication 3.0
			Religion elective 2.0
			General elective 1.0
			<b>Total Hours 15.0</b>
			<b>SENIOR YEAR</b>
			<u>7th Semester</u>
			HLTH 434 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 15.0</b>
			<u>8th Semester</u>
			HLTH 311 3.0
			HLTH 322 3.0
			Major elective and/or General electives 9.0
			<b>Total Hours 15.0</b>
Please check with departments for current availability of all courses.			
*** Offered FALL only			
** Offered WINTER only			
<b>Note:</b> 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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### 2017-2018 Program Requirements (56 Credit Hours)

<p><b>REQUIREMENT 1</b> Complete 12 courses</p> <p>HLTH 100 - Introduction to Public Health 1.0</p> <p>HLTH 310 - Chronic Diseases: Prevention and Control 3.0</p> <p>HLTH 311 - Infectious Diseases: Prevention and Control 3.0</p> <p>HLTH 322 - Environmental Health 3.0</p> <p>HLTH 330 - Principles and Practices of Health Promotion 3.0</p> <p>HLTH 345 - Principles of Epidemiology 3.0</p> <p>HLTH 434 - Evaluation Methods 3.0</p> <p>HLTH 440 - Computer Applications in Epidemiology 3.0</p> <p>HLTH 441 - Clinical Trials 3.0</p> <p>HLTH 443 - Field Epidemiology 3.0</p> <p>HLTH 447 - Introduction to Biostatistics 3.0</p> <p>*STAT 121 - Principles of Statistics 3.0</p> <p><b>REQUIREMENT 2</b> Complete 1 course</p> <p><b>NOTE: AN EQUIVALENT ACT SCORE CAN SUBSTITUTE FOR MATH 110. IF AN ACT SCORE IS USED, 22 ELECTIVE CREDIT HOURS ARE NEEDED IN REQUIREMENT 3.</b></p> <p>*MATH 110 - College Algebra 3.0</p> <p><b>REQUIREMENT 3</b> Complete 19.0 hours from the following option(s)</p> <p><b>COMPLETE 19-22 HOURS FROM THE FOLLOWING (22 HOURS IF AN ACT SCORE WAS USED INSTEAD OF TAKING MATH 110).</b></p> <p><b>OPTION 3.1</b> Complete 19.0 hours from the following course(s)</p> <p>GEOG 212 - Introduction to Geographic Information Systems 3.0</p> <p>HLTH 324 - Occupational Health and Safety 3.0</p> <p>HLTH 420 - Injury and Violence Prevention 3.0</p> <p>HLTH 439 - Program Planning 3.0</p> <p>HLTH 442 - Special Topics in Epidemiology 3.0</p> <p>HLTH 450 - Women's Health Issues 3.0</p> <p>HLTH 460 - Substance Abuse and Addictive Behavior 3.0</p> <p>HLTH 466 - Health and the Aging Process 3.0</p> <p>HLTH 480 - International Health 3.0</p> <p>HLTH 481 - Applied International Health 3.0v</p> <p>HLTH 491R - Mentored Research 3.0v</p> <p style="padding-left: 20px;"><i>You may take up to 3 credit hours.</i></p> <p>HLTH 492R - Directed Public Health Readings 3.0v</p> <p style="padding-left: 20px;"><i>You may take up to 3 credit hours.</i></p> <p>HLTH 496R - Academic Internship 9.0v</p> <p style="padding-left: 20px;"><i>You may take up to 3 credit hours.</i></p> <p>MATH 112 - Calculus 1 4.0</p> <p>MATH 113 - Calculus 2 4.0</p>	<p>MATH 116 - Essentials of Calculus 1.0</p> <p>NDFS 201 - Society, Nutrition, and Chronic Disease 2.0</p> <p>NDFS 380 - International Nutrition 3.0</p> <p>PDBIO 120 - Science of Biology 3.0</p> <p>PDBIO 205 - Human Biology 3.0</p> <p>PDBIO 305 - Human Physiology 4.0</p> <p>PDBIO 362 - Advanced Physiology 3.0</p> <p>PDBIO 365 - Pathophysiology 4.0</p> <p>SOC 300 - Methods of Research in Sociology 3.0</p> <p>STAT 124 - SAS Base Programming Skills 1.5</p> <p>STAT 230 - Analysis of Variance 3.0</p> <p>STAT 234 - Methods of Survey Sampling 3.0</p> <p>STAT 330 - Introduction to Regression 3.0</p> <p><b>Note 1: If student uses an ACT score to fulfill the Math 110 requirement, 22 elective hours are needed.</b></p> <p><b>Note 2: Only 6 credits of elective credits from Health 420, 424, 439, 442, 450, 460, 466, and 480 can be applied toward the degree.</b></p> <p><b>Note 3: Prerequisites for PDBio 305 are Chem 101 or equivalent; PDBio 210 or 220.</b></p> <p><b>Note 4: Prerequisites for PDBio 362 are MMBio 240; Phscs 106 or Phscs 200.</b></p> <p><b>Note 5: Prerequisites for PDBio 365 are PDBio 305 or PDBio 362.</b></p> <p><b>Note 6: Prior to taking Hlth 496R, student must complete Hlth 100, 310, 311, 322, 330, 345, 440 and 443 with a C- grade or higher.</b></p> <p><b>RECOMMENDED</b></p> <p>ENGL 315 - Writing in the Social Sciences 3.0</p> <p>ENGL 316 - Technical Communication 3.0</p> <p>*STAT 121 - Principles of Statistics 3.0</p> <p><b>RECOMMENDED</b> Complete 2 options</p> <p><b>RECOMMENDED ELECTIVE COURSES:</b></p> <p><b>Math 112, 113 for students who want a firm foundation in calculus and/or plan to pursue graduate education.</b></p> <p><b>Students considering graduate work in epidemiology are encouraged to consider the statistics electives.</b></p> <p><b>THE DISCIPLINE:</b></p> <p>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</p>	<p>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.</p> <p>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.</p> <p><b>CAREER OPPORTUNITIES:</b></p> <p>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.</p> <p>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</p>
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2017-2018

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.

### 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

#### Health Science Department

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

### ADVISEMENT CENTER INFORMATION

#### Life Science Student Services

Brigham Young University  
2060 Life Sciences Building

Provo, UT 84602  
Telephone: (801) 422-3042  
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