BS in Public Health: Epidemiology (662543) MAP Sheet
Life Sciences, Public Health
For students entering the degree program during the 2022-2023 curricular year.

University Core and Graduation Requirements
University Core Requirements:
Requirements
#Classes Hours Classes
Religion Cornerstones
Teachings and Doctrine of The Book of Mormon12.0 REL A 275
Jesus Christ and the Everlasting Gospel12.0 REL A 250
Foundations of the Restoration12.0 REL C 225
The Eternal Family12.0 REL C 200
The Individual and Society
American Heritage1-23-6.0from approved list
Global and Cultural Awareness13.0from approved list
Skills
First Year Writing13.0from approved list
Advanced Written and Oral Communications13.0 WRTG 315 or 316 recommended
Quantitative Reasoning0-10-3.0from approved list
Languages of Learning (Math or Language)13.0 STAT 121*
Arts, Letters, and Sciences
Civilization 113.0from approved list
Civilization 213.0from approved list
Arts13.0from approved list
Letters13.0from approved list
Biological Science13-4.0 MMBIO 221*
Physical Science1–24-7.0from approved list
Social Science13.0from approved list
Core Enrichment: Electives
Religion Electives3-46.0from approved list
Open ElectivesVariableVariablepersonal choice
*THESE COURSES FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS (6 hours overlap)
Graduation Requirements:
Minimum residence hours required30.0
Minimum hours needed to graduate120.0
Suggested Sequence of Courses
Freshman Year
1st Semester
1st Year Writing OR A HTG 1003.0
Religion Cornerstone course2.0
HLTH 2103.0
Arts or Letters elective3.0
Global & Cultural Awareness elective3.0
General elective 3.0
Total Hours17.0
2nd Semester
1st Year Writing OR A HTG 1003.0
HLTH 3123.0
HLTH 3133.0
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<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Course</th>
<th>Hours</th>
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<tr>
<td>Sophomore Year</td>
<td>3rd Semester</td>
<td>HLTH 314</td>
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<td>HLTH 345*</td>
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<td>Civilization 2 elective</td>
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<td>Social Science elective</td>
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<td>General elective</td>
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<td>Religion Cornerstone course</td>
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<td>Total Hours</td>
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<td>4th Semester</td>
<td>HLTH 315</td>
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<td>HLTH 316</td>
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<td>Major elective</td>
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<td>Religion Cornerstone elective</td>
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<td>General elective</td>
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<td>Junior Year</td>
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<td>MMBIO 2213</td>
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<td>Total Hours</td>
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<td>16.0</td>
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<td>6th Semester</td>
<td>HLTH 447**</td>
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<td>PDBIO 210 or 2203</td>
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<td>Adv. Written &amp; Oral Communication elective</td>
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<td>General elective</td>
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<td>Total Hours</td>
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<tr>
<td>Senior Year</td>
<td>7th Semester</td>
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<td>Civilization 1 elective</td>
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<td>Arts or Letters elective</td>
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<td>Physical Science elective</td>
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<td>8th Semester</td>
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<td>General electives</td>
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Prior to taking HLTH 493, the student must complete HLTH 210, 313, 314, 315, 345, 440, 447, 449.

Please check with departments for current availability of all courses.

We encourage students to take HLTH 440 and HLTH 447 as early as possible in the epidemiology emphasis to contribute to research opportunities and/or secure internship opportunities. HLTH 440, 447 and 449 should be taken in sequence; they should not be taken concurrently in the same semester.

* Offered FALL only  
** Offered FALL/WINTER only (not Spring/Summer)  
*** Offered WINTER only

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.

BS in Public Health: Epidemiology (662543)2022-2023 Program Requirements (60 - 61 Credit Hours)

**requirement 1 Complete 13 courses**
Note: Prior to taking HLTH 493, the student must complete HLTH 210, 313, 314, 315, 345, 440, 447, 449.

**HLTH 210 - Foundations of Public Health 3.0**  
**HLTH 312 - Introduction to Planning, Interventions, and Evaluation 3.0**  
**HLTH 313 - Introduction to Data Collection and Analysis 3.0**  
**HLTH 314 - Health, Disease and Their Determinants, Part 1 3.0**  
**HLTH 315 - Health, Disease and Their Determinants, Part 2 3.0**  
**HLTH 316 - Influencing Health through Health Systems and Policy 3.0**  
**HLTH 345 - Principles of Epidemiology 3.0**  
**HLTH 440 - Introduction to Statistical Computing in Epidemiology (SAS) 3.0**  
**HLTH 447 - Introduction to Biostatistics 3.0**  
**HLTH 449 - Epidemiologic Study Design & Analysis 3.0**  
**HLTH 493 - Epidemiology Capstone 3.0**  
*MMBIO 221 - General Microbiology 3.0*  
*STAT 121 - Principles of Statistics 3.0*

**requirement 2 Complete 1 course**

**CELL 210 - Human Anatomy (with virtual lab) 3.0**  
**CELL 220 - Human Anatomy (with lab) 4.0**

**requirement 3 Complete 6.0 hours from the following course(s)**

**HLTH 322 - Environmental Health 3.0**  
**HLTH 324 - Occupational Health and Safety 3.0**  
**HLTH 420 - Injury and Violence Prevention 3.0**  
**HLTH 450 - Women's Health Issues 3.0**  
**HLTH 456 - Families and Public Health 3.0**  
**HLTH 460 - Substance Use Disorders and the Individual, Family, and Community 3.0**  
**HLTH 466 - Health and the Aging Process 3.0**  
**HLTH 480 - International Health 3.0**  
**HLTH 481 - Applied International Health 3.0v**  
**NDFS 201 - Society, Nutrition, and Chronic Disease 3.0**  
**NDFS 380 - International Nutrition 3.0**

**requirement 4 Complete 12.0 hours from the following course(s)**

**HLTH 434 - Advanced Evaluation Methods 3.0**  
**HLTH 482 - Medical Geography 3.0**  
**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.
HLTH 494 - Health Promotion Capstone: Advanced Program Planning 3.0
HLTH 496R - Academic Internship: Epidemiology 9.0v
You may take this course up to 3 times.

MATH 112 - Calculus 1 4.0
MATH 113 - Calculus 2 4.0
MATH 116 - Essentials of Calculus 1.0
SOC 300 - Methods of Research in Sociology 3.0
STAT 123 - (Not currently offered)
STAT 124 - SAS Base Programming Skills 1.5
STAT 230 - Statistical Modeling 1 3.0
STAT 234 - Methods of Survey Sampling 3.0
STAT 240 - Probability and Inference 1 3.0
STAT 330 - Statistical Modeling 2 3.0

Recommended
WRTG 315 - Writing in the Social Sciences 3.0
WRTG 316 - Technical Communication 3.0
Math 112, 113 are recommended for students who want a firm foundation in calculus and/or plan to pursue graduate education.

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 provides students with a strong public health foundation in the integration of public health with primary care and with other sectors, in cultural competency and health systems, health-related data analysis, and in upstream approaches to health inequities, particularly in vulnerable and diverse populations. Health science students pursue advanced degrees in medicine, dentistry, physician assistantship, or other allied health areas.

Epidemiologists are interested in understanding the distribution and determinants of disease, disability and other health related events. Epidemiologists may be involved in planning and carrying out investigations or research studies to understand how disease or disability are distributed by person, place, and time factors and to identify genetic, behavioral, social, and environmental factors that either contribute to or prevent disease or disability. Epidemiologic investigations use data from surveys, interviews, and/or examinations to help answer these questions. As such, epidemiologists will spend time preparing and analyzing data to answer questions about disease distribution and determinants and communicating those results verbally and in writing.

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 and state level. Those wishing to work specifically in epidemiology generally require a master’s degree. Likewise, jobs at the federal government and international levels often require work experience and a graduate degree. 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.

BS in Public Health: Epidemiology (662543) 2022-2023

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. For epidemiology students, gaining experience with statistical methods and software applications may be particularly beneficial for success in finding entry-level positions.

While there are many specialties or disciplines in public health, most career opportunities are found in the tracks associated with the major. The skills acquired in the epidemiology emphasis can be applied in general public health jobs with widely variable salaries ranging from approximately $35,000–$60,00. Compensation will vary significantly depending upon the specific discipline, type of organization, and geographic location. However, entry-level salaries with a master’s degree in epidemiology will range from approximately $45,000–$70,00 while those with more experience or a doctoral degree may earn more. More specific details about pay and careers in epidemiology can be found at https://www.bls.gov/ooh/life-physical-and-social-science/epidemiologists.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.

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