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

Life Sciences, Public Health

For students entering the degree program during the 2023-2024 curricular year.



University Core and Graduation Requirements				Suggested Sequence of Courses			
University Core Requirements:				FRESHMAN YEAR		JUNIOR YEAR	
Requirements	#Classes	Hours	Classes	1st Semester		<u>5th Semester</u>	
Religion Cornerstones				1st Year Writing OR A HTG 100	3.0	HLTH 313	3.0
-				Religion Cornerstone course	2.0	HLTH 426*	3.0 3.0
Teachings and Doctrine of The Book of	1	2.0	REL A 275	Global & Cultural Awareness elective HLTH 210	3.0 1.0	Major elective STAT 121 (Languages of Learning)	3.0
Mormon				Civilization 1 elective	3.0	Religion elective	2.0
Jesus Christ and the Everlasting Gospel	1	2.0	REL A 250	General elective	3.0	Total Hours	14.0
Foundations of the Restoration	1	2.0	REL C 225	Total Hours	15.0	<u>6th Semester</u>	
The Eternal Family	1	2.0	REL C 200	2nd Semester		HLTH 316	3.0
The Individual and Society				1st Year Writing OR A HTG 100	3.0	Major elective	3.0
American Heritage	1-2	3-6.0	from approved list	HLTH 322	3.0	Adv. Written & Oral Communication	3.0
Global and Cultural Awareness	1		from approved list	MMBIO 221 & 222 (Biological Science)	4.0	Civilization 2 elective	3.0
Skills	1	5.0	i on approved list	General Elective	4.0	Religion elective	2.0
				Religion Cornerstone course Total Hours	2.0 16.0	Total Hours	14.0
First Year Writing	1	3.0	from approved list		16.0	SENIOR YEAR	
Advanced Written and Oral Communications	1	3.0	WRTG 315 or 316	SOPHOMORE YEAR		7th Semester HLTH 428*	3.0
			recommended	3rd Semester HLTH 324	3.0	Major elective	3.0
Quantitative Reasoning	0-1	0-3.0	from approved list	HLTH 314	3.0	General elective	4.0
Languages of Learning (Math or Language)	1	3.0	STAT 121*	CHEM 105 (Physical Science)	4.0	Religion elective	2.0
			recommended	Religion Cornerstone course	2.0	Arts or Letters elective	3.0
Arts, Letters, and Sciences				General elective	3.0	Total Hours	15.0
Civilization 1	1	2.0	from approved list	Total Hours	15.0	8th Semester	
Civilization 2	1		from approved list	4th Semester		HLTH 429**	3.0
				HLTH 312	3.0	General electives	7.0
Arts	1		from approved list	HLTH 315	3.0	Arts or Letters elective	3.0
Letters	1		from approved list	CHEM 106 & 107 Religion Cornerstone course	4.0 2.0	HLTH 496R Total Hours	3.0 16.0
Biological Science	1	3.0	MMBIO 221*	Social Science elective	3.0		16.0
Physical Science	1-2	4-7.0	course from approved	Total Hours	15.0		
			list	Please check with departments for current a	vailability of all course	s.	
Social Science	1	3.0	from approved list	*Offered FALL only			
Core Enrichment: Electives				**Offered WINTER only			
Religion Electives	3-4	6.0	from approved list				
Open Electives	Variable		personal choice	Note: Students are encouraged to complete	an average of 15 cred	it hours each semester or 30 credit hours ea	ch vear which
open licetives	variable	variable	personal enoice	5 1	0		
*THESE COURSES FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS			could include spring and/or summer terms. Taking fewer credits substantially increases the cost and the number of semesters to graduate.				
Graduation Requirements:							
Minimum residence hours required		30.0					
Minimum hours needed to graduate		120.0					

Program Requirements

Requirement 1 — Complete 11 Courses HLTH 210 - Foundations of Public Health 3.0 HLTH 312 - Intro to Plan. Interv. Eval 3.0 HLTH 313 - Intro to Data Coll & Analysis 3.0 HLTH 314 - Hlth. Disease & Determinants 1 3.0 HLTH 315 - Hlth, Disease & Determinants 2 3.0 HLTH 316 - Health Systems and Policy 3.0 HLTH 322 - Environmental Health 3.0 HLTH 324 - Occupational Health & Safety 3.0 HLTH 426 - Environmental Toxicology 3.0 HLTH 428 - Occupational Exposure Lab 3.0 HLTH 429 - Environmental Exposure Lab 3.0 Requirement 2 — Complete 6 Courses CHEM 105 - Gen College Chem 1+Lab Integr 4.0 CHEM 106 - General College Chemistry 2 3.0 CHEM 107 - Gen Coll Chem Lab 1.0 MMBIO 221 - General Microbiology 3.0 MMBIO 222 - Gen Micro Lab 1.0 STAT 121 - Principles of Statistics 3.0 Requirement 3 — Complete 3 hours Note: Prior to taking Hlth 496R, complete Hlth 210, 312, 313, 314, 315, 322, 324, 428. 42 contact hours are required for each credit hour. HLTH 496R - Academic Internship: Hlth Sci - You may take up to 3.0 credit hours 0.5v Requirement 4 — Complete 9 hours CELL 305 - Human Physiology 4.0 CELL 365 - Pathophysiology 4.0 CHEM 223 - Quant & Qual Analy 4.0 CHEM 285 - Intro Bio-organic Chemistry 4.0 CHEM 351 - Organic Chemistry 1 3.0 CHEM 352 - Organic Chemistry 2 3.0 CHEM 481 - Biochemistry 3.0 GEOG 101 - Global Environment 3.0 GEOG 303 - Biogeography 3.0 GEOG 310 - Intro to City Planning 3.0 HLTH 199R - Global Health Experiences - You may take up to 3 credit hours 0.5v HLTH 345 - Principles of Epidemiology 3.0 HLTH 420 - Injury & Violence Prevention 3.0 HLTH 422 - Disaster Response & Emer Prep 3.0 HLTH 456 - Families and Public Health 3.0 HLTH 481 - Applied International Health - You may take up to 3.0 credit hours 1.0v HLTH 482 - Medical Geography 3.0 HLTH 491R - Mentored Research - You may take up to 3.0 credit hours 0.5v HLTH 492R - Directed Pub Hlth Readings - You may take up to 3.0 credit hours 1.0v MMBIO 121 - Gen Biology: Health & Disease 3.0 MMBIO 261 - Infection & Immunity 3.0 MMBIO 418 - Medical Parasitology 2.0 MMBIO 465 - Virology 3.0 NDFS 361 - Food Microbiology 3.0 PWS 150 - Environmental Biology 3.0 Recommended Courses are not required to complete the program

WRTG 315 - Writing in the Social Sciences 3.0 WRTG 316 - Technical Communication 3.0

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) 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, healthrelated 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.

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 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. While there are many specialties or disciplines in public health, most career opportunities are found in the tracks associated with the major. Entrylevel 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- andspecialists.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- andtechnicians.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

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