

Program Assessment Plan

Program: Master of Public Health (MPH)

Department: Behavioral Sciences & Health Education and Epidemiology & Biostatistics (offering concentrations in Behavioral Health & Health Education; Biosecurity & Disaster Preparedness; Biostatistics; Epidemiology; Global Health; Maternal & Child Health)

College/School: College for Public Health & Social Justice

Date: June 29, 2018

Primary Assessment Contact: Anne Sebert Kuhlmann, PhD, MPH, Associate Professor & MPH Program Director, anne.sebertkuhlmann@slu.edu, 314-977-4029

Note: Each cell in the table below will expand as needed to accommodate your responses.

#	Program Learning Outcomes	Assessment Mapping	Assessment Methods	Use of Assessment Data
Category: Evidence-Based Approaches to Public Health				
1	<p>Apply epidemiological methods to the breadth of settings and situations in public health practice</p> <ul style="list-style-type: none"> Note: These should be measurable, and manageable in number (typically 4-6 are sufficient). 	<p>From what specific courses (or other educational/professional experiences) will artifacts of student learning be analyzed to demonstrate achievement of the outcome? Include courses taught at the Madrid campus and/or online as applicable.</p> <ul style="list-style-type: none"> PUBH 5030 Methodological Approaches to Understanding Population Health 	<p>What specific artifacts of student learning will be analyzed? How, and by whom, will they be analyzed?</p> <ul style="list-style-type: none"> Note: the majority should provide direct, rather than indirect, evidence of achievement. <p>Please note if a rubric is used and, if so, include it as an appendix to this plan.</p> <ul style="list-style-type: none"> PUBH 5030: In quizzes 2 and 3 students will identify the appropriate study design for a particular research question; on the mid-term and final exams students will calculate and interpret the appropriate measure of effect for a specific study design. <p>PROCESS (how and by whom the data will be analyzed) TBD in FL18</p>	<p>How and when will analyzed data be used by faculty to make changes in pedagogy, curriculum design, and/or assessment work?</p> <p>How and when will the program evaluate the impact of assessment-informed changes made in previous years?</p> <p>The MPH Steering Committee will review our Program Assessment Report on an annual basis and will recommend changes to the curriculum overall and to specific courses and/or assessments as warranted.</p> <p>The results from our AY17-18 report will be kept in mind as we roll-out our revamped curriculum in FL18. In particular, we will pay attention to the area on the CPH exam with the lowest</p>

				institutional average score (environmental sciences) as we develop the PUBH 5060 Environmental & Biological Determinants of Health course to assure it covers the competencies adequately.
2	Select quantitative and qualitative data collection methods appropriate for a given public health context	<ul style="list-style-type: none"> • PUBH 5030 Methodological Approaches to Understanding Population Health • PUBH 5040 Generating Evidence from Public Health Data • PUBH 5070 Translating Evidence and Theory for Community Practice 	<ul style="list-style-type: none"> • PUBH 5030: In Quiz 4 students will demonstrate they can identify the appropriate type of data for a given context; on the mid-term and final exams students will describe the strengths and weaknesses of specific qualitative and quantitative approaches • PUBH 5040 Homework exercises early in the course will ask students to describe appropriate sampling procedures and randomized treatment assignments. They will also be asked to read research articles and answer questions regarding the design of published studies. • PUBH 5070 Students will conduct a community needs assessment whereby they gather and assess data on community assets and determine areas of improvement. Students will select and identify the most appropriate data to be included in the community needs assessment. 	
3	Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate	<ul style="list-style-type: none"> • PUBH 5040 Generating Evidence from Public Health Data • PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> • PUBH 5040 Homework sets and the final exam require the student to use SPSS to do statistical tests and fit statistical models as well as practice qualitative coding. The midterm exam requires calculation of appropriate statistics using a calculator and appropriate interpretation of SPSS output. • PUBH 5960 TBD 	

4	Interpret results of data analysis for public health research, policy or practice	<ul style="list-style-type: none"> • PUBH 5030 Methodological Approaches to Understanding Population Health • PUBH 5040 Generating Evidence from Public Health Data • PUBH 5070 Translating Evidence and Theory for Community Practice 	<ul style="list-style-type: none"> • PUBH 5030 In the article critique presentations students will discuss the distinction between statistically significant and substantially meaningful results for research, policy and practice and to critically evaluate the quality of evidence from a published study. In the final exam students will identify characteristics of analytical studies that support or refute the strength of the evidence. • PUBH 5040 The following written interpretations are assessed through homework assignments, group quizzes and exams: confidence intervals, hypothesis tests, linear and logistic regression coefficients, standard errors and residuals • PUBH 5070 Literature review (assessment) that identifies and describes Type 1 data. Interpret results of data for the community assessment. Final presentation during which data will be presented and interpreted as part of the community needs assessment 	
Category: Public Health & Health Care Systems				
5	Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings	<ul style="list-style-type: none"> • PUBH 5050 Health Care Across the Lifecourse: From Policy to Practice • PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> • PUBH 5050 TBD • PUBH 5960 TBD 	
6	Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels	<ul style="list-style-type: none"> • PUBH 5010 Mission and Practice of Global Public Health • PUBH 5030 Methodological Approaches to Understanding Population Health • PUBH 5060 Environmental and Biological Determinants of Health; • PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> • PUBH 5010 Each student will provide an example of and response to structural bias and racism as exemplified in their profession. Each student will also respond to at least one other student's post. • PUBH 5030 In Quiz 2 students will identify patterns of data that 	

			<p>describe health inequities; on the mid-term exam and final students will be asked to discuss the structural and social influences on observed health inequities.</p> <ul style="list-style-type: none"> • PUBH 5060 Students will interpret these factors with short essay questions on Exam 2. Online students will also discuss the concept of environmental justice during the week 4 online discussion. • PUBH 5960 TBD 	
Category: Planning & Management to Promote Health				
7	Assess population needs, assets and capacities that affect communities' health	<ul style="list-style-type: none"> • PUBH 5070 Translating Evidence and Theory for Community Practice • PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> • PUBH 5070 Literature review and summary of Type 1 evidence. Community assessment that addresses needs, assets and capacities • PUBH 5960 TBD 	
8	Apply awareness of cultural values and practices to the design or implementation of public health policies or programs	<ul style="list-style-type: none"> • PUBH 5070 Translating Evidence and Theory for Community Practice • HCE 5020 Public Health Ethics • PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> • PUBH 5070 Literature review and summary of types 2 and 3 evidence (intervention). Innovative intervention plan with justification for your choice. Description of cultural values and practices for the population in intervention plan. • HCE 5020 TBD • PUBH 5960 TBD 	
9	Design a population-based policy, program, project or intervention	<ul style="list-style-type: none"> • PUBH 5050 Health Care Across the Lifecourse: From Policy to Practice • PUBH 5070 Translating Evidence and Theory for Community Practice • PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> • PUBH 5050 TBD • PUBH 5070 Literature review and summary of types 2 and 3 evidence (intervention). Innovative intervention plan with justification for choice. Timeline. Description of how cultural competency will be addressed in the intervention plan. • PUBH 5960 TBD 	
10	Explain basic principles and tools of budget and resource management	<ul style="list-style-type: none"> • PUBH 5050 Health Care Across the Lifecourse: From Policy to Practice • PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> • PUBH 5050 TBD • PUBH 5960 TBD 	

11	Select methods to evaluate public health programs	<ul style="list-style-type: none"> PUBH 5070 Translating Evidence and Theory for Community Practice PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> PUBH 5070 Innovative intervention plan with support for your choice. Evaluation methods, logic model, goals and objectives as part of the evaluation plan. PUBH 5960 TBD 	
Category: Policy in Public Health				
12	Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence	<ul style="list-style-type: none"> PUBH 5050 Health Care Across the Lifecourse: From Policy to Practice HCE 5020 Public Health Ethics PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> PUBH 5050 TBD HCE 5020 TBD PUBH 5960 TBD 	
13	Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes	<ul style="list-style-type: none"> HCE 5020 Public Health Ethics PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> HCE 5020 TBD PUBH 5960 TBD 	
14	Advocate for political, social or economic policies and programs that will improve health in diverse populations	<ul style="list-style-type: none"> PUBH 5010 Mission and Practice of Global Public Health PUBH 5050 Health Care Across the Lifecourse: From Policy to Practice PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> PUBH 5010 Students will write an editorial on an issue that demonstrates the perspective of public health and one other profession in the College. PUBH 5050 TBD PUBH 5960 TBD 	
15	Evaluate policies for their impact on public health and health equity	<ul style="list-style-type: none"> PUBH 5050 Health Care Across the Lifecourse: From Policy to Practice PUBH5960 Integrated Capstone 	<ul style="list-style-type: none"> PUBH 5050 TBD PUBH 5960 TBD 	
Category: Leadership				
16	Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making	<ul style="list-style-type: none"> PUBH 5070 Translating Evidence and Theory for Community Practice PUBH 5050 Health Care Across the Lifecourse: From Policy to Practice PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> PUBH 5070 In-class case studies related to leadership and management. Students will complete an assessment of their leadership skills, discussing their vision, obstacles they face as future leaders in public health, strategies to share ideas, solve problems and network in a collaborative and supportive manner. PUBH 5050 TBD PUBH 5960 TBD 	
17	Apply negotiation and mediation skills to address organizational or community	<ul style="list-style-type: none"> PUBH 5050 Health Care Across the Lifecourse: From Policy to Practice HCE 5020 Public Health Ethics 	<ul style="list-style-type: none"> PUBH 5050 TBD HCE 5020 TBD PUBH 5960 TBD 	

	challenges	<ul style="list-style-type: none"> • PUBH 5960 Integrated Capstone 		
Category: Communication				
18	Select communication strategies for different audiences and sectors	<ul style="list-style-type: none"> • PUBH5030 Methodological Approaches to Understanding Population Health; • PUBH 5040 Generating Evidence from Public Health Data • HCE 5020 Health Care Ethics • PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> • PUBH 5030 In the article critique presentations students will be asked to discuss the potential for study findings to be applied in practice, and will communicate relevant messages from the study findings for specific audiences (scientific, practice, policy and community). • PUBH 5040 Homework assignments and exam questions ask students to interpret the results of a statistical analysis for public health practitioners. Construct tables and graphs that convey the information relevant to the scientific question of interest. • HCE 5020 TBD • PUBH 5960 TBD 	
19	Communicate audience-appropriate public health content, both in writing and through oral presentation	<ul style="list-style-type: none"> • PUBH 5040 Generating Evidence from Public Health Data • PUBH 5050 Health Care Across the Lifecourse: From Policy to Practice • PUBH 5070 Translating Evidence and Theory for Community Practice • PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> • PUBH 5040 The assessments described for MPH FC #4 & #18 assess written communication. Students will work in groups to develop a presentation of a data analysis, and each member of the group will orally present a part of the presentation to assess this competency. • PUBH 5050 TBD • PUBH 5070 Final oral presentation. Written summaries and final project. Students will write brief short reports (1,200) that can be submitted to a peer-reviewed journal (i.e., AJPH). The report will be structured with an introduction with separate sections for the methods, results, discussions and public health implications. • PUBH 5960 TBD 	

20	Describe the importance of cultural competence in communicating public health content	<ul style="list-style-type: none"> • PUBH 5070 Translating Evidence and Theory for Community Practice • HCE 5020 Public Health Ethics • PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> • PUBH 5070 Description of how cultural competency will be addressed in the community assessment and intervention plan. Final presentation. Students will meet in small groups with community contacts to conduct walk-through assessments of organizations cultural competency strategies and create reports with strengths, weaknesses and specific recommendations and present their findings to the organization. • HCE 5020 TBD • PUBH5960 TBD 	
Category: Interprofessional Practice				
21	Perform effectively on interprofessional teams	<ul style="list-style-type: none"> • PUBH 5010 Mission and Practice of Global Public Health • HCE 5020 Public Health Ethics • PUBH 5910 Internship • PUBH 5690 Integrated Capstone 	<ul style="list-style-type: none"> • PUBH 5010 Students will work with (interprofessional) discussion groups to create a photovoice collage that depicts the determinants of health from an ecological perspective and the various professions that should be involved to address the health problem. Students will rate other members of the team on participation. • HCE 5020 TBD • PUBH 5910 TBD • PUBH 5960 TBD 	
Category: Systems Thinking				
22	Apply systems thinking tools to a public health issue	<ul style="list-style-type: none"> • PUBH 5050 Health Care Across the Lifecourse: From Policy to Practice • PUBH 5960 Integrated Capstone 	<ul style="list-style-type: none"> • PUBH 5050 TBD • PUBH 5960 TBD 	

Additional Questions

1. On what schedule/cycle will faculty assess each of the above-noted program learning outcomes? (*It is not recommended to try to assess every outcome every year.*)

The 22 program learning outcomes are grouped into 7 categories by CEPH, our accrediting body. The MPH is a two-year degree program. Therefore, we anticipate assessing the outcomes associated with 2-3 categories per year such that our achievement of all the program learning outcomes is reviewed every 2-3 years.

2. Describe how, and the extent to which, program faculty contributed to the development of this plan.

Both the MPH Steering Committee comprised of faculty members from all concentrations in the degree program and a group of faculty convened by the Associate Dean for Academic & Faculty Affairs were involved in mapping specific courses to appropriate program learning outcomes. Then, groups of faculty members responsible for teaching specific courses identified the artifacts of student learning to be assessed in their courses for the mapped outcomes based on the guidance provided by CEPH. Finally, the draft syllabi for the courses including the artifacts of student learning were reviewed and approved by the MPH Steering Committee.

The PROCESS of assessment (how and by whom the data will be analyzed) will be fleshed out in the MPH Steering Committee during the Fall 2018 semester as we finalize our report to CEPH on the implementation of our revamped curriculum to meet our new accreditation-required program learning outcomes.

3. On what schedule/cycle will faculty review and, if needed, modify this assessment plan?

NOTE that in addition to the above assessments that each focus on specific program learning outcomes, the MPH programs uses several global measures of our outcomes: 1) Certified in Public Health (CPH) exam results for graduating students (the national standardized exam is aligned with the above 22 program learning outcomes dictated by CEPH and provides an external benchmark of program success), 2) Preceptors' Evaluation of Student Interns, and 3) Exit Survey data with students' self-assessment of competency mastery. The first two global measures are DIRECT measures while the third is an INDIRECT measure.

This plan is currently a draft. Changes in our accreditation standards from CEPH are driving the roll-out of a revamped MPH curriculum to meet our new program learning outcomes starting with the FL18 entering cohort. We will finalize our assessment plan over the course of the Fall 2018 as the new courses to be offered in during the 2nd year of the MPH curriculum are developed and as we finalize our report for CEPH on the roll-out of our revamped curriculum.

Given the changes in program learning outcomes and revamped curriculum that are occurring with the FL18 entering cohort, the MPH Steering Committee will initially review this assessment plan on an annual basis.

IMPORTANT: Please remember to submit any assessment rubrics (as noted above) along with this report.