Saint Louis University
Program Assessment Plan

Program (==Major==, Minor, Core): MSPH
Department: Epidemiology
College/School: CPHSJ
Person(s) Responsible for Implementing the Plan: Darcy Scharff
Date Submitted: 12/31/15

Program Learning Outcomes	Curriculum Mapping	Assessment Methods	Use of Assessment Data
What do you expect all students who complete the program to know, or be able to do?	*Where is the outcome learned/assessed (courses, internships, student teaching, clinical, etc.)?*	*How do students demonstrate their performance of the program learning outcomes? How does the program measure student performance? Distinguish your direct measures from indirect measures.*	*How does the program use assessment results to recognize success and "close the loop" to inform additional program improvement? How/when is this data shared, and with whom?*

Epidemiology MSPH 1: Identify gaps in the literature and develop appropriate research theses. MSPH 2: Develop appropriate study designs and analytic strategies to test epidemiologic hypotheses. MSPH 3: Apply ethical principles in the conduct of research on human subjects. MSPH 4: Conduct and interpret descriptive and inferential statistics. MSPH 5: Communicate epidemiologic findings in scholarly oral and written formats. **Behavioral Science and Health Education** MSPH1: Review and critically evaluate the behavioral and social science literature and identify research questions and hypotheses that address current gaps MSPH2: Identify, describe and apply theories, models and concepts from social and behavioral science disciplines, including psychology, health communication and anthropology, to key public health challenges and reducing health disparities MSPH3: Explain and apply qualitative and quantitative methods to assess community and population health resources and needs MSPH4: Plan, develop, guide and manage theory and evidence-based interventions, programs and policies to improve health at the individual,	Courses that cover these learning outcomes: See course by learning outcome matrix attached. Courses that will be used in the direct assessment: PUBH5960	<u>Direct measures</u>: Completion of the final publishable manuscript and presentation <u>Indirect Measures</u>:. Number of published manuscript Number of conference presentations Alumni Survey: Assess alumni comfort level with performing the program competencies as well as post-graduation placement	<u>Direct</u>: Data from the evaluation of the manuscript and presentation will be shared with the BSH, EPI and EOH Departments for review and consideration. This will likely occur every 2-3 years since we have so few students in the programs. <u>Indirect</u>: Data from the alumni surveys are reviewed every two to three years and will be shared annually with the Departments for review and consideration.

organizational, community and population levels			
MSPH5: Conduct statistical and basic epidemiological analytic methods, and interpret findings including strengths and limitations			
MSPH6: Conduct multi-method process and outcome evaluations of interventions, programs and policies to improve community health			
MSPH7: Employ ethical principles guiding the conduct of research on human subjects			
MSPH8: Design and conduct research projects and communicate the procedures, methods, results and implications in both oral and written form.			

1. It is __not recommended__ to try and assess (in depth) all of the program learning outcomes every semester. It is best practice to plan out when each outcome will be assessed and focus on 1 or 2 each semester/academic year. Describe the responsibilities, timeline, and the process for implementing this assessment plan.

Responsibility	Timeline	Process
Associate Dean for Academic Affairs in consultation with the department chairs.	Beginning in spring 2016 or when a student presents their manuscript and presentation.	We will use the attached rubric to determine if the competencies were met as demonstrated in that project. If challenges are identified, we will explore early courses and projects to identify where the problems exist.

2. **Please explain how these assessment efforts are coordinated with Madrid (courses and/or program)?**
Madrid does not offer the MSPH program.

3. **The program assessment plan should be developed and approved by all faculty in the department. In addition, the program assessment plan should be developed to include student input and external sources (e.g., national standards, advisory boards, employers, alumni, etc.). Describe the process through which your academic unit created this assessment plan. Include the following:**

   a. Timeline regarding when or how often this plan will be reviewed and revised. (This could be aligned with program review.)

See table in number 1 above that outlines the timeline.

   b. How students were included in the process and/or how student input was gathered and incorporated into the assessment plan.

Students were not included in this plan.

   c. What external sources were consulted in the development of this assessment plan?

Employers were not included in this plan.

   d. Assessment of the manageability of the plan in relation to departmental resources and personnel

This will require minimal work on the part of the Associate Dean for Academic Affairs.

CORE COMPETENCY BY REQUIRED LEARNING EXPERIENCE IN THE CORE MSPH CURRICULUM

MSPH, EPIDEMIOLOGY AY15-16 Requirements	Principles of Biostatistics	Statistical Programming and Study Planning: SAS	Introduction to General Linear Modeling	Survival Data Analysis	Categorical Data Analysis	Principles of Epidemiology	Epidemiology Methods II	Capstone in Epidemiology	Mission and Practice of Global Public Health	Research Project	Methods Electives
Core Competencies	BST 5000	BST 5030	BST 5100	BST 5200	BST 5210	EPI 5000	EPI 5020	EPI 5960	PUBH 5010	PUBH 5990	
MSPH1: Identify knowledge gaps in the literature and develop appropriate research hypotheses								P	P	R*	
MSPH2: Develop appropriate study designs and analytical strategies to test epidemiologic hypotheses.	R		R	R	R	P	R	P		R*	
MSPH3: Apply ethical principles in the conduct of research on human subjects.						P		P	R	R*	
MSPH4: Conduct and interpret descriptive and inferential statistics.	P	R	P	P	P	P	R	P		R*	
MSPH5: Communicate epidemiologic findings in scholarly oral and written formats								P	P	R*	

P=Primarily Gained, R=Reinforced

*Depends on the project

P=Primarily Gained, R=Reinforced   *Depends on project

Table 2.6.1. Courses and other learning experiences by which the competencies are met

MSPH, BEHAVIORAL SCIENCE & HEALTH EDUCATION AY15-16 Requirements	Behavioral Science and Health Education	Health Promotion Program Evaluation	Capstone in BSHE	Principles of Biostatistics	Introduction to General Linear Modeling	Applied Data Management	Principles of Epidemiology	Mission and Practice of Global Public Health	Ethical Issues in Public Health	Research Project
	BSH 5000	BSH 6000	BSH 5960	BST 5000	BST 5100	BST 5400	EPI 5000	PUBH 5010	PUBH 5020	PUBH 5990
MSPH1: Review and critically evaluate the behavioral and social science literature and identify research questions and hypotheses that address current gaps .	P	R	R							R*
MSPH2: Identify, describe and apply theories, models and concepts from social and behavioral science disciplines, including psychology, health communication and anthropology, to key public health challenges and reducing health disparities	P	P	R							R*
MSPH3: Explain and apply qualitative and quantitative methods to assess community and population health resources and needs	P		R					R		R*
MSPH4: Plan, develop, guide and manage theory and evidence-based interventions, programs and policies to improve health at the individual, organizational, community and population levels		R	R					R		R*
MSPH5: Conduct statistical and basic epidemiological analytic methods, and interpret findings including strengths and limitations			R	P	P		P			R*
MSPH6: Conduct multi-method process and outcome evaluations of interventions, programs and policies to improve community health	P	R							R*	
MSPH7: Employ ethical principles guiding the conduct of research on human subjects			R				P	R	P	R*
MSPH8: Design and conduct research projects and communicate the procedures, methods, results and implications in both oral and written form.										R*

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P=Primarily Gained, R=Reinforced; *Depends on project

EXAMPLE
Assessment Rubric for MSPH EPI Manuscript and Presentation

Learning outcomes and course learning objectives	LO Assessed by this Manuscript and Presentation (Yes/No)	Portfolio Demonstrates Achievement of Manuscript and Presentation	Portfolio Does Not Demonstrate Achievement of Manuscript and Presentation
MSPH 1: Identify gaps in current scientific knowledge and develop appropriate research questions.			
MSPH 2: Apply appropriate methods of study design to address research questions.			
MSPH 3: Apply ethical principles in the conduct of research on human subjects.			
MSPH 4: Conduct and interpret basic descriptive and inferential statistics.			
MSPH 5: Produce scholarly reports of research and/or programmatic findings.			

Demonstrates achievement: Evidence that the student has mastered this competency is provided.
Does Not Demonstrate Achievement: Evidence that the student has mastered this competency is not provided, unconvincing, or very incomplete