		Assurance of Student Learning Report 2023-2024		
CHHS		Department of Public Health		
Epidemiology Ce	rtificate-1751	·		
Xiuhua Ding				
Is this an online	<mark>program</mark> ? ⊠ Yes □	Please make sure the Program Learning Outcomes listed match those in CourseLea match! (If they don't match, explain on this page under <b>Assessment Cycle</b> )	f . Indicate verification here	e X Yes, they
*** Please includ	e Curriculum Map as part of this	document (at the end), NOT as a separate file.		
Use this page to more Outcomes		ements, and summarize results for your program. Detailed information must be co	mpleted in the subsequen	t pages. Add
Program Studen		pidemiological methods to assess and analyze impact of public health problems.		
Instrument 1	Direct: Research Project Repo	rt (PH 630)		
Instrument 2	Indirect: Exit survey			
Instrument 3				
Based on your re	esults, check whether the progr	am met the goal Student Learning Outcome 1.	⊠ Met	☐ Not Met
Program Studen	t Learning Outcome 2: Interpre	epidemiological findings, including relevance to public health practice.		
Instrument 1	Direct: Research Project Repo	rt (PH 630)		
Instrument 2	Indirect: Exit survey			
Instrument 3				
Based on your re	esults, check whether the progr	am met the goal Student Learning Outcome 2.	⊠ Met	☐ Not Met
Program Studen	t Learning Outcome 3: Commu	nicate epidemiological findings to professional and lay audiences		
Instrument 1	Direct: Research Project Repo	rt (PH 630)		
Instrument 2	Indirect: Exit survey			
Instrument 3				
Based on your re	esults, check whether the progr	am met the goal Student Learning Outcome 3.	⊠ Met	☐ Not Met
Assessment Cyc	e Plan:			
This cycle, comrassessed.	nunicating epidemiological findi	ngs to lay audiences was not assessed this year and it will be assessed next year. Co	nmunicating findings to pro	ofessionals was

		Program Student Learning Outco	ome 1				
Program Student Learning Outcome	Apply epiden	niological methods to assess and analyze i	mpact of public health p	roblems.			
Measurement Instrument 1	write a report	Assessment of section of Integration of Knowledge of Research project in PH 630 class: Students are required to write a report on a semester-long that uses an epidemiological perspective to describe a public health problem by applying epidemiological methods learned in class, analyze the data, and interpret findings.					
Criteria for Student Success		nonstrates understanding and applying her on section of integration of knowledge		course to some ex	tent and earn		
Program Success Target for this N	Measurement	80% students in the class score 15/30 or higher in section of integration of knowledge.	Percent of Program Achieving Target	5 out of 6 (83.3% earned 15/30 or h this goal	) students have higher and achieved		
Methods	_	graded by the course instructor. Individual nd counted for this measurement. The sum (N=6).	_		_		
Measurement Instrument 2	an survey to	y Certificate Survey: Students enrolled in indicate the extent to which the certificate ic health problem."					
Criteria for Student Success	Students rate	objective as agree(4) or higher on the que	stion				
Program Success Target for this	Program Success Target for this Measurement  At least 80% of students completing certificate will rate the objective as agree or higher on the question  Percent of Program Achieving Target  Achieving Target  6 out of 6 (100%) students have the question as agree or higher						
Students enrolled in the Epidemiology Certificate program complete mandatory exit survey. System identifies who has completed the survey, but responses are not linked to the respondents. On the survey, students are asked to rate the extent to which the certificate met its objectives. Results are analyzed descriptively, and data are recoded in and compared to target.  Based on your results, highlight whether the program met the goal Student Learning Outcome 1.							
Results, Conclusion, and Plans fo	r Next Assessmen	t Cycle (Describe what worked, what didn't, and	plan going forward)	L	<u> </u>		

**Results**: The results are expected.

<u>Conclusions</u>: The PH630 project is an appropriate instrument to assess students' capabilities of applying epidemiological methods. It is indeed a touch project.

<u>Plans for Next Assessment Cycle</u>: We will provide students more support for students when they work on final project including we will ask them to submit a mandatory draft for comments before the final submission. We will discuss the rubric and refine PH 630 research project to better assess this objective.

		Program Student Learning Outco	ome 2					
Program Student Learning Outcome	Interpret ep	Interpret epidemiological findings, including relevance to public health practice.						
Measurement Instrument 1		Assessment of section of Depth of Discussion of Research project in PH 630 class: Students are required to write a report by applying epidemiological methods learned in class, analyze the data, an interpret findings.						
Criteria for Student Success	Students earr	Students earn 8/15 or higher on section of Depth of discussion Research project.						
Program Success Target for this	Measurement	80% students in the class score 8/15 or higher in section of depth of discussion	Percent of Program Achieving Target	have earned	83.3%) students 10/15 or higher hieved this goal			
Methods	-	The report is graded by the course instructor. Individual grades are computed for the section of depth of discussion and counted for this measurement. The summary is reported for all students in PH630 during the academic year						
Measurement Instrument 2	an survey to	<u>Epidemiology Certificate Survey:</u> Students enrolled in Epidemiology Certificate Program are required to complete an survey to indicate the extent to which the certificate met the objective "Interpret epidemiological findings, including relevance to public health practice."						
Criteria for Student Success			stion	Students rate objective as agree(4) or higher on the question				
Program Success Target for this	s Measurement	At least 80% of students completing certificate will rate the objective as agree or higher on the question	Percent of Program Achieving Target	6 out 6 (100%) st rated the questio higher				
Methods	Students enrothas complete the extent to compared to	certificate will rate the objective as agree or higher on the question olled in the Epidemiology Certificate progr d the survey, but responses are not linked to which the certificate met its objectives. Re-	am complete mandatory exit so the respondents. On the survisults are analyzed descriptively	rated the question higher urvey. System in the ey, students are	dentifies who asked to rate			

**Results**: The results are expected.

<u>Conclusions</u>: The PH630 project is an appropriate instrument to assess students' capabilities of interpreting results.

<u>Plans for Next Assessment Cycle</u>: We will continue to build in and emphasize interpretation during the curricum. We will discuss the rubric and refine PH 630 research project to better assess this objective.

Program Student Learning Outcome 3							
Program Student Learning Outcome	Communica	Communicate epidemiological findings to professional and lay audiences					
Measurement Instrument 1	on a semester	Assessment of section of cohesiveness of Research project in PH 630 class: Students are required to write a report on a semester-long that uses an epidemiological perspective to describe a public health problem by applying epidemiological methods learned in class, analyze the data, and interpret findings.					
Criteria for Student Success	Students earn	10/20 or higher on section of Depth of o					
Program Success Target for this Measurement		60% students in the class score 10/20 or higher in section of Cohesiveness	Percent of Program Achieving Target	5 out 6 (83.3%) s rated the question higher			
Methods		The report is graded by the course instructor. Individual grades are computed for the section of Cohesiveness and counted for this measurement. The summary is reported for all students in PH630 during the academic year (N=6).					
Measurement Instrument 2	an survey to	y Certificate Survey: Students enrolled in indicate the extent to which the certificate al and lay audiences ".					
Criteria for Student Success	Students rate	objective as agree(4) or higher on the que	stion				
Program Success Target for this	Measurement	At least 80% of students completing certificate will rate the objective as agree or higher on the question	Percent of Program Achieving Target	6 out 6 (100%) students have rated the question as agree or higher			
Methods	Students enrolled in the Epidemiology Certificate program complete mandatory exit survey. System identifies who has completed the survey, but responses are not linked to the respondents. On the survey, students are asked to rate the extent to which the certificate met its objectives. Results are analyzed descriptively, and data are recoded in and compared to target.						
Based on your results, circle or h	ighlight whether t	the program met the goal Student Learning Outco	ome 3.	⊠ Met	☐ Not Met		
Results, Conclusion, and Plans fo	r Next Assessmen	t Cycle (Describe what worked, what didn't, and	plan going forward)				

**Results**: The results are expected.

<u>Conclusions</u>: The PH630 project is a good tool to assess students' communicating public health issues to the professionals.

<u>Plans for Next Assessment Cycle</u>: We will add another instrument to assess students' capabilities of communicating public health issues to the lay audidence.

# **CURRICULUM MAP Example**

	Epidemiology			
Program name:	Certificate-1751			
Department:	Public Health			
College:	CHHS			
Contact person:	Xiuhua Ding			
Email:	xiuhua.ding@wku.edu			
KEY:				
I = Introduced				
R =				
Reinforced/Develope				
d				
M = Mastered				
A = Assessed				

			Learning Outcomes			
			LO1:	LO2:	LO3:	LO4:
				Apply	Interpret	
			Describe public	epidemiological	epidemiological	Communicate
			health problem	methods to assess	findings, including	epidemiological
			from	and analyze	relevance to public	findings to
			epidemiological	impact of public	health practice.	professional and
			perspective	health problems.		lay audiences.
Course Subject/Core						
Course	Number	Course Title				
		Applied Methods in				
		Public Health				
		Practice/Field				
PH	581	Epidemiology	M.A	M.A	M.A	M.A
PH	582	Epidemiology	1	I.A	I.R.A	I.R.A
PH	630	Advanced Epidemiology	M.A	M.A	M.A	M.A

# Applied research project PH630

Purpose: The analysis project for the course requires that you apply appropriate analytic methods(such as estimating prevalence and incidence, examining association between exposure and an outcome and making inference, assessing confounding and interaction, and so on) that we have been learning about to the analysis of a real dataset.

Objective: The primary objective of this assignment is to provide you with hand on experience on evidence based public health practice. Students will obtain experience in creating research question, select and manage dataset, analyzing, interpreting and presenting of epidemiologic data. Students will conduct the literature search and review based on the topic they are interested in, create a research question, identify dataset that can address their research question, analyze data and write the research report.

## Guidelines for content:

Your final report for the research project will essentially be equivalent to the research articles without the discuss section. Your report should accomplish the following objectives:

- 1. Articulate your research question
- 2. Discuss and evaluate the existing literature reviews related to your research area/ questions
- 3. Analyze data by applying appropriate methods
- 4. Summarize your findings and make inference
- 5. State your conclusion and recommendations.

More specifically, your report will include:

- a) A title that represents the content of your report
- b) Literature review: An open paragraph or two to discuss the background or existing research in your research field. State your research question.
- c) Main body will include the following sections: method, result, conclusion/discussion,
- d) Recommendation for the public health.

#### The details can be found below:

**Part I. Literature Review.** Include at least 5-10 references. The review should be one page in length. Correct spelling, grammar, and syntax are expected. Use American Medical Association citation and bibliography format. PLEASE DO NOT PLAGIARIZE FROM YOUR SOURCES. If you are unsure what constitutes plagiarism, consult with your instructor before submitting your assignment.

## Part II. Method.

In the method section, you should discuss the source of dataset, study design, target population, measurement of exposure and outcomes (all the variables were included in the data analysis, how they were in the dataset)

statistical method used(such as frequency, percentage, chi-square, stratification, Breslow-day test).

#### Part III. Results.

Note: The result section below is just an example. You do not need to use the exact format. However, I expect you to create table to demonstrate your results rather than copy and paste your SAS output.

1. Univariate: Using SAS PROC FREQ or its equivalent in a different statistical package if applicable , generate a chi-square test for family history, TypeA, Htn , smoker and CHD and create the table. At the 0.05 level of significance, summarize the finding in the table 1 and table 2

Table 1	Variables	All subjects* (N =462)
		(14 - 402)
	N	
	Exposure, n(%)	
	Outcome, n(%)	
	Other vairables, n(%)	

- 2. Describe the findings from the table above
- 3. Two variable analysis

Table 2	Variables	Outcome (Yes)	Outcome (No)	P value
	N			
	Exposure, n(%)			
	Other vairables, n(%)			

- 4. State the associate between the exposure and outcome
- 5. Write a paragraph to summarize the finding in the tbale

Part IV . State your conclusion and public health recommendation based on the evidence from the project

Part V. Reflection what you learned and expected to be added in future

The rubric below is adapted from the source below:

https://www.cornellcollege.edu/library/faculty/focusing-on-assignments/tools-for-assessment/ResearchPaperRubric.pdf

	Expert	Proficient	Apprentice	Novice
	understands and has applied concepts learned in the course. Concepts are integrated into the writer's own insights. The writer provides concluding remarks	part, understands and has applied concepts learned in the course. Some of the	author, to a certain extent, understands and has applied	The paper does not demonstrate that the author has fully understood and applied concepts learned in the course.
II -	narrowly enough for	but lacks direction.	The topic is too broad for the scope of this assignment.	The topic is not clearly defined.

	Expert	Proficient	Apprentice	Novice
	assignment. A thesis statement provides direction for the paper, either by statement of a position or hypothesis.	specific topic but the writer has not established a position.		
Depth of discussion	In-depth discussion & elaboration in all sections of the paper.	In-depth discussion & elaboration in most sections of the paper.	The writer has omitted pertinent content or content runs-on excessively. Quotations from others outweigh the writer's own ideas excessively.	Cursory discussion in all the sections of the paper or brief discussion in only a few sections.
Cohesiveness	writing demonstrates an understanding of the relationship among	For the most part, ties together information from all sources. Paper flows with only some disjointedness. Author's writing demonstrates an understanding of the relationship among material obtained from all sources.	Sometimes ties together information from all sources. Paper does not flow - disjointedness is apparent. Author's writing does not demonstrate an understanding of the relationship among material obtained from all sources.	Does not tie together information. Paper does not flow and appears to be created from disparate issues. Headings are necessary to link concepts. Writing does not demonstrate understanding any relationships
Spelling and grammar	No spelling &/or grammar mistakes.		Noticeable spelling & grammar mistakes.	Unacceptable number of spelling and/or grammar mistakes.
Citations	Cites all data obtained from other sources. APA citation style is used in both text and bibliography.	Cites most data obtained from other sources. APA citation style is used in both text and bibliography.	Cites some data obtained from other sources. Citation style is either inconsistent or incorrect.	Does not cite sources.

	Point allocated	Expert	Proficient	Apprentice	Novice
Integration of Knowledge	30	30	20	15	10
Topic focus	15	15	10	8	5
Depth of discussion	15	15	10	8	5
Cohesiveness	20	20	15	10	8
Spelling and grammar	10	10	8	6	4
Citations	10	10	8	6	4
TOtal	100				