

**Assurance of Student Learning
2018-2019**

College of Health and Human Services

Department of Public Health

Environmental Health Certificate, 1743

Use this page to list learning outcomes, measurements, and summarize results for your program. Detailed information must be completed in the subsequent pages.

1. Student Learning Outcome 1: Students will describe the relationship between environmental factors and health.

Instrument 1	Direct: ENV 280 Assignment
Instrument 2	
Instrument 3	

Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 1.	Met	Not Met
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Student Learning Outcome 2:

1. Students will identify environmental techniques used to protect resources for community well-being.

Instrument 1	Direct: PH 385 Assignment
Instrument 2	
Instrument 3	

Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 2.	Met	Not Met
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1. Student Learning Outcome 3: Students will review environmental health-related policies and their implication on public health.

Instrument 1	Direct: ENV 460 Assignment
Instrument 2	
Instrument 3	

Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 3.	Met	Not Met
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Program Summary (Briefly summarize the action and follow up items from your detailed responses on subsequent pages.)

The Certificate Program started during the 2017/18 academic. One student graduated from the program during the review period. Data collected since program inception is not enough to make major decisions regarding the program and its courses. More data will be collected during the next 2 years to facilitate an in-depth program review. Changes for program improvement will be made after the review.

Student Learning Outcome 1

Student Learning Outcome	Students will describe the relationship between the environment and health.		
Measurement Instrument 1	ENV 280 Assignment Direct Measure: Students will use the water footprint calculator to calculate how much water they use and ways to reduce their water usage to protect the environment.		
Criteria for Student Success	Score of 80 or above. Students will demonstrate how they can reduce their water usage. See Rubric.		
Program Success Target for this Measurement	80% of students will score 80 or higher on the assignment.	Percent of Program Achieving Target	The student scored above 80% on the assignment.
Methods	Only one student was enrolled in the certificate program during the review period. The student was selected for the assessment. The course instructor selected the assignment and provided student's score. The student scored 100%. The course instructor will provide assignment scores annually.		
Measurement Instrument 2			
Criteria for Student Success			
Program Success Target for this Measurement		Percent of Program Achieving Target	
Methods			
Measurement Instrument 3			
Criteria for Student Success			
Program Success Target for this Measurement		Percent of Program Achieving Target	
Methods			

Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 1.	Met	Not Met
Actions (Describe the decision-making process and actions planned for program improvement. The actions should include a timeline.)		
<p>The Environmental Health Certificate started during the 2017/18 academic year. There was only one student enrolled in the program during the 2018/19 academic year. The available data is not enough to make any meaningful changes.</p>		
Follow-Up (Provide your timeline for follow-up. If follow-up has occurred, describe how the actions above have resulted in program improvement.)		
<p>More data will be collected during the next 2 years to facilitate with the review and necessary actions. The program will be reviewed during the 2020/21 academic year for any needed changes to be made.</p>		

Student Learning Outcome 2

Student Learning Outcome	Students will identify environmental techniques used to protect resources for community well-being.		
Measurement Instrument 1	PH 385 Assignment Direct Measure: Students will write a paper/blog on an environmental health issue discussed in the media, identify the health risks of the issue to populations and recommend strategies for preventing or reducing the health hazard.		
Criteria for Student Success	Score of 80 or above. Students will identify a current environmental health issue in the media, discuss the associated risks. See Rubric.		
Program Success Target for this Measurement	80% of students will score 80 or higher on the assignment.	Percent of Program Achieving Target	The one student enrolled in the course under the review period scored above 80% on the assignment.
Methods	One student was enrolled in the course during the review period. The course instructor selected and submitted the assignment, grading rubric and student's score. The student scored 100% on the assignment. The course instructor will provide assignment scores annually.		
Measurement Instrument 2			
Criteria for Student Success			
Program Success Target for this Measurement		Percent of Program Achieving Target	
Methods			
Measurement Instrument 3			
Criteria for Student Success			
Program Success Target for this Measurement		Percent of Program Achieving Target	
Methods			
Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 2.			Met
Not Met			
Actions (Describe the decision-making process and actions planned for program improvement. The actions should include a timeline.)			
The Environmental Health Certificate started during the 2017/18 academic year. There was only one student enrolled in the program during the 2018/19 academic year. The available data is not enough to make any meaningful changes.			
Follow-Up (Provide your timeline for follow-up. If follow-up has occurred, describe how the actions above have resulted in program improvement.)			
More data will be collected during the next 2 years to facilitate with the review and necessary actions. The program will be reviewed during the 2020/21 academic year for any needed changes to be made.			

Student Learning Outcome 3

Student Learning Outcome	Students will review environmental health-related issues and their implication on public health.				
Measurement Instrument 1	ENV 460 Assignment Direct Measure: Students will identify an environmental health problem related to air pollution, its impact on public health.				
Criteria for Student Success	Score of 80 or above. Students will identify a health problem resulting from air pollution and its impact on public health. See Rubric.				
Program Success Target for this Measurement	80% of students will score 80 or higher on the assignment.	Percent of Program Achieving Target	The sole student enrolled in the course scored less than 80% on the assignment.		
Methods	One student was enrolled in the course during the review period. The course instructor selected and submitted the assignment, grading rubric and student's score. The student scored less than 80% on the assignment. The course instructor will provide assignment scores annually.				
Measurement Instrument 2					
Criteria for Student Success					
Program Success Target for this Measurement		Percent of Program Achieving Target	.		
Methods					
Measurement Instrument 3					
Criteria for Student Success					
Program Success Target for this Measurement		Percent of Program Achieving Target			
Methods					
Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 3.			<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="background-color: yellow;">Met</td> <td>Not Met</td> </tr> </table>	Met	Not Met
Met	Not Met				
Actions (Describe the decision-making process and actions planned for program improvement. The actions should include a timeline.)					
The Environmental Health Certificate started during the 2017/18 academic year. There was only one student enrolled in the program during the 2018/19 academic year. The available data is not enough to make any meaningful changes.					
Follow-Up (Provide your timeline for follow-up. If follow-up has occurred, describe how the actions above have resulted in program improvement.)					
More data will be collected during the next 2 years to facilitate with the review and necessary actions. The program will be reviewed during the 2020/21 academic year for any needed changes to be made.					

Assignment 1 – Water Footprint Calculator – ENV 280

<https://www.watercalculator.org/>

Please use the above link to calculate your water footprint and copy and paste your results into Microsoft word. Once this has been completed please discuss the areas in which you can reduce your water usage and what you learned from using the water footprint calculator and the water Powerpoints.

Please submit your answer by attaching your MS Word document here. Formatting instructions for Paper: Minimum of 1 page (Not including Water Footprint), double spaced, 1” margins, 12 point font.

	Novice	Competent	Proficient	Distinguished
Formatting	Points: 1 (4.00%) Follows only 1 of the formatting guidelines	Points: 2 (8.00%) Follows only half of the formatting guidelines	Points: 3 (12.00%) Follows all but one of the formatting guidelines	Points: 4 (16.00%) Follows all formatting guidelines
Calculator Results	Points: 0 (0.00%) No footprint results are given	Points: 2 (8.00%) Only the overall total of the footprint is given	Points: 4 (16.00%) Overall total and category totals are shown	Points: 6 (24.00%) Entire footprint results are completed including total score, category totals, and sub-category totals
Content	Points: 0 (0.00%) Results are not discussed and no discussion is given about ways to reduce water usage	Points: 5 (20.00%) Only results are discussed and no discussion is given about ways to reduce water usage	Points: 10 (40.00%) Results are discussed and minor discussion is given about ways to reduce water usage	Points: 15 (60.00%) All results are discussed and thoughtful insight is given about ways to reduce water usage

Environmental Health Reports Rubric

Learning Outcomes	Exemplary - 4	Proficient - 3	Apprentice - 2	Novice - 1	Score
Compile environmental health information	Information was collected from relevant sources in a manner that provided interpretation of the environmental health issue, problem, or methods applied.	Information was collected from relevant sources in a manner that provided synthesis of the environmental health issue, problem, or methods applied.	Information was collected from relevant sources with some interpretation, but a synthesis of the environmental health issue, problem, or methods applied was not provided.	Information was collected from relevant sources with no interpretation or synthesis of the environmental health issue, problem, or methods applied was not provided.	
Explanation of the environmental health problem	Environmental health issue or problem was comprehensively stated and explained.	Environmental health issue or problem was clearly stated and explained.	Environmental health issue or problem was clearly stated but not explained.	Environmental health issue or problem was not clearly stated or explained.	
Apply methods to assess the environmental health problem or issue	Field and laboratory methods were applied correctly in a manner that provided a comprehensive analysis of the problem.	Field and laboratory methods were applied correctly in a manner that provided an analysis of the problem.	Field and laboratory methods were applied correctly, yet not in manner that provided an analysis of the problem.	Field and laboratory methods were not applied correctly, and did not provide an analysis of the problem.	
Present results of the assessment	Data analysis was correct and presented through a series of graphs and tables that were explained in the report.	Data analysis was correct and presented through a graph or table that that was explained in the report.	Data analysis had errors and a table or graph was presented, yet it was not explained in the text of the report.	Data analysis had errors and a table or graph was not presented nor explained the report.	
Develop conclusions and recommendations of the assessment	Conclusions and recommendations were developed that provided a comprehensive solution to the environmental health problem.	Conclusions and recommendations were discussed that provided a solution to the environmental health problem.	Conclusions and recommendations were presented, but did not provide a solution to the environmental health problem.	A Conclusion was presented, with not recommendations, and it did not include a solution to the environmental health problem.	

PH 385: Environmental Health

Blog 1: Environmental Policy and Regulation

Every day in mainstream media, there is a long list of environmental and occupational health stories describing health problems affecting all types of populations. Reflecting on what environmental health is, the goal of this blog is to increase your awareness of contemporary environmental health challenges around the globe and exploring local, state, federal, regional and global efforts through policies to control them with the view to reducing the impact on health of our communities.

Guidelines for the Blog:

The article has to be an environmental or occupational health story that is local, national or international. It has to focus on the health of a population (e.g. air pollution, drinking water contamination, pesticides, toxic waste, etc.) and not individual health.

Write two to three paragraphs on the following:

1. In your own perspective, what is the environmental or occupational health issue discussed in the news item selected?
2. What regulatory/policy framework instituted to address the issue?
3. What influences different agencies (governmental, private sector, not for profit, community, etc.) to initiate and implement abatement/control measures?
4. What is the potential impact of the environmental or occupational health factor to health care and overall public health?

Please be sure to respond to Blog by Wednesday 10/16th. You will also have to respond to at least two (2) classmates by Thursday 10/17th for a total of three posts. Comments should be respectful, clear and well developed. Simply agreeing or disagreeing with a classmate will not meet minimum requirements.

Grading Rubric

	Novice	Proficient	Excellent
Reflection	<i>Points: 0 – 0</i> Only includes mere description of theoretical knowledge; no reflection is demonstrated beyond description.	<i>Points: 0 – 0.5</i> Shows satisfactory ability to relate acquired knowledge to environmental or occupational policy and its administration.	<i>Points: 0.6 – 1.0</i> Proficiently demonstrated reflection and deep thinking of acquired knowledge and concepts, and integrate them into different issues from a wide range of perspectives.
Content	<i>Points: 0 – 0.5</i> Questions are not well answered and/or not related to environmental or occupational health.	<i>Points: 0.6 – 1.0</i> One or two of the questions are well answered while rest of the questions are not answered at all or wrongly answered.	<i>Points: 1.1 – 2.0</i> All the questions correctly answered and put in context.
Discussion	<i>Points: 0 – 0.5</i> Only initial post was made. No comments on colleagues' posts.	<i>Points: 0.6 – 1.0</i> Two posts were made, initial post and one comment on colleague's post. Comments merely agreeing with the posts.	<i>Points: 1.1 – 2.0</i> Made three posts, one initial post and two comments on colleagues' post. Comments are thought provoking and understanding of environmental health issue.