

**Assurance of Student Learning Report
2020-2021**

College of Health and Human Services

Public Health

Health Informatics Certificate- 1740

Jan Hunt-Shepherd

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

Student Learning Outcome 1: Apply information technology to meet health care needs

Instrument 1 **Direct: Development of pivot table in EHR Go Clinical Reminder Data Visualization V Assignment**

Instrument 2 **Direct: Examination of data interoperability in Health Information Exchange Assignment**

Instrument 3 **Direct: Demonstration of ability to navigate an electronic health record system in Introductory Evaluation Assignment**

Based on your results, check whether the program met the goal Student Learning Outcome 1.

Met

Not Met

Student Learning Outcome 2: Explore database management and analytics to manage health care clinical pathways, clinical outcomes, quality initiatives, and departmental and administrative workflow

Instrument 1 **Direct: Analysis of health data to identify trends in EHR Go Clinical Reminder Data Visualization V assignment**

Instrument 2 **Direct: Recommendation of antibiotics based on analysis of clinical outcomes in EHR Go Orientation to Data Analytics I assignment**

Instrument 3

Based on your results, check whether the program met the goal Student Learning Outcome 2.

Met

Not Met

Program Summary (Briefly summarize the action and follow up items from your detailed responses on subsequent pages.)

Results from this assessment indicate that the mean scores for all SLOs have been met and the certificate program has reached and/or exceeded the self-reported assessment goals in each category. The certificate program will continue to be monitored as more students enroll in the certificate.

Student Learning Outcome 1

Student Learning Outcome	Apply information technology to meet health care needs- Students should be able to demonstrate ability to utilize information technology to make appropriate decisions in managing data related to health care needs		
Measurement Instrument 1	Direct measure of student learning outcome: Students were required in the HIM 330 (Electronic Health Record Systems) course to generate a pivot table for “Colorectal Screen Status” in the EHR Go Clinical Reminder Data Visualization V assignment. This measure aligns with the learning outcome by requiring the student to show competency in creating a pivot table which shows the ability to apply information technology. No “rubric” exists. The student either creates a pivot table or does not.		
Criteria for Student Success	Students should at the end of the assignment correctly generate a pivot table of healthcare data. Student must provide a copy of the pivot table created. Student receives 100% credit for providing this correct pivot table.		
Program Success Target for this Measurement	80% will correctly create pivot table	Percent of Program Achieving Target	91% correctly created pivot table
Methods	Direct: (N=22) Assignments were collected from students. A portion of EHR Go Clinical Reminder Data Visualization V Assignment required students to generate a specific pivot table of healthcare data. This assignment element was graded for each student. Grading was based on whether the students were successful with creating the pivot table. Students either received full credit for this or they received no credit for this. Results of measure are accessed by program director from Blackboard. 100% of the students are reported.		
Measurement Instrument 2	Direct measure of student learning outcome: Students were required in HIM 330 (Electronic Health Record Systems) course assignment “Health Information Exchange” to evaluate an electronic health record for exchange of data between two organizations. This measure aligns with the learning outcome by requiring the student to show competency in evaluating the exchange of data which shows the ability to apply information technology. No rubric exists. Each question in the assignment is either correct or incorrect.		
Criteria for Student Success	Students should at the end of the assignments receive a passing grade of 70% or higher for this assignment.		
Program Success Target for this Measurement	80% will receive a passing grade of 70%	Percent of Program Achieving Target	100% received a passing grade
Methods	Direct measure of student learning outcome: (N=24) Assignments were collected from students. The assignment was graded for all elements contained within the assignment. The assessment involves a review and audit of the health information exchange (HIE) that exists between two service locations in a continuity of care record. Results of measure are accessed by program director from Blackboard. 100% of the students are reported.		
Measurement Instrument 3	Direct measure of student learning outcome: Students were required in HIM 330 (Electronic Health Record Systems) course assignment 3 “Introductory Evaluation” to demonstrate competency in utilizing an electronic health record system. This measure aligns with the learning outcome by requiring the student to show competency in utilizing an electronic health record system which shows the ability to apply information technology. No rubric exists. Each question in the assignment is either correct or incorrect.		
Criteria for Student Success	Students should at the end of the assignments receive a passing grade of 70% or higher for this assignment.		

Program Success Target for this Measurement	80% will receive a passing grade of 70%	Percent of Program Achieving Target	100% received a passing grade of 70%
Methods	Direct measure of student learning outcome: (N=24) Assignments were collected from students. The assignment was graded for all elements contained within the assignment. This assessment requires students to demonstrate the necessary skills and understanding to access an EHR system and identify and interpret patient data. Results of measure are accessed by program director from Blackboard. 100% of the students are reported.		
Based on your results, highlight whether the program met the goal Student Learning Outcome 1.		<input checked="" type="checkbox"/> Met	<input type="checkbox"/> Not Met
Actions: In fall 2020, course assignments were reviewed for appropriateness and content. All which were determined to be adequate.			
Follow-Up:			
Continue to monitor outcomes in 2021-2022 and evaluate if different measurement instruments or outcomes might be appropriate if program continues to meet all goals set.			
Next Assessment Cycle Plan (Please describe your assessment plan timetable for this outcome)			
HIM 330 (Electronic Health Record Systems) is reviewed on all students in Blackboard by the HI Certificate Coordinator. This outcome will be reassessed at the end of the calendar year.			

Student Learning Outcome 2			
Student Learning Outcome	Explore database management and analytics to manage health care clinical pathways, clinical outcomes, quality initiatives, and departmental and administrative workflow: Utilize databases and analytics to support decision making.		
Measurement Instrument 1	Students were required in the EHR Go Clinical Reminder Data Visualization V assignment to analyze a report “Clinical Reminder Data” and a pivot table to determine how many patients were overdue for colorectal cancer screening. This measure aligns with the learning outcome by requiring the student to show competency in utilizing databases and analytics to support decision making and healthcare functions. No “rubric” exists. The student either answers the question correctly or incorrectly		
Criteria for Student Success	Students should at the end of the assignment be able to correctly determine how many patients were overdue for colorectal cancer screening. Students had to correctly identify the total number of patients overdue for a colorectal cancer screening. A grade of 100% should be achieved		
Program Success Target for this Measurement	80% of students will receive a grade of 100% for element in assignment	Percent of Program Achieving Target	95% received a grade of 100% for element in assignment
Methods	Direct: (N=22) Assignments were collected from students. The specific element from the EHR Go Clinical Reminder Data Visualization V Assignment for correctly identifying the total number of patients overdue for a colorectal cancer screening was graded for accuracy for each student. Results of measure are accessed by program director from Blackboard. 100% of the students are reported		
Measurement Instrument 2	Students were required in the EHR Go Orientation to Data Analytics I assignment to recommend antibiotics for urine-based E. Coli infection based on analysis of those most effective. This measure aligns with the learning outcome by requiring the student to show competency in utilizing analytics to make appropriate decisions to support the healthcare facility. The student either answers the question correctly or incorrectly.		
Criteria for Student Success	Students should at the end of the assignment be able to appropriately recommend antibiotics for urine-based E. Coli infection based on analysis of those most effective in certain situations. A grade of 100% should be achieved.		
Program Success Target for this Measurement	80% will receive a grade of 100% for element in assignment	Percent of Program Achieving Target	100% received a grade of 100% for element in assignment
Methods	Direct: (N=23) Assignments were collected from students. The specific element from the EHR Go Orientation to Data Analytics I Assignment for recommending appropriate antibiotics for urine-based E. Coli infection based on analysis of those most effective in certain situations was graded for appropriateness for each student. Results of measure are accessed by program director from Blackboard. 100% of		

	the students are reported.	
Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 2.	<input checked="" type="checkbox"/> Met	<input type="checkbox"/> Not Met
Actions (Describe the decision-making process and actions planned for program improvement. The actions should include a timeline.)		
In Fall 2020, course assignments were reviewed for appropriateness and content. Both which were determined to be adequate.		
Follow-Up (Provide your timeline for follow-up. If follow-up has occurred, describe how the actions above have resulted in program improvement.)		
Continue to monitor outcomes in 2021-2022 and evaluate if different measurement instruments or outcomes might be appropriate if program continues to meet all goals set.		
Next Assessment Cycle Plan (Please describe your assessment plan timetable for this outcome)		
HIM 330 (Electronic Health Record Systems) is reviewed on all students in Blackboard by the HI Certificate Coordinator. This outcome will be reassessed at the end of the calendar year.		