Assurance of Student Learning 2019-2020				
Gordon Ford College of Business	Economics			
Graduate Certificate in Economic Data Analytics - 0491				

	world quest	Not Met				
Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 3.  Student Learning Outcome 2: Students will demonstrate appropriate data skills necessary to conduct economic research.  Instrument 1 Direct: Targeted assignments in ECON 506 – Applied Statistical Methods  Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 1.  Student Learning Outcome: Students will demonstrate knowledge of statistical tools necessary to conduct economic research.	Met					
Student Learning Outcome 2: Students will demonstrate appropriate data skills necessary to conduct economic research.  Instrument 1 Direct: Targeted assignments in ECON 506 – Applied Statistical Methods  Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 1.  Student Learning Outcome: Students will demonstrate knowledge of statistical tools necessary to conduct economic research.	Met					
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Student Learning Outcome: Students will demonstrate knowledge of statistical tools necessary to conduct economic research	Instrument 1 Direct: Targeted assignments in ECON 506 – Applied Statistical Methods					
	Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 1.  Met  Not Met					
	Student Learning Outcome: Students will demonstrate knowledge of statistical tools necessary to conduct economic research.					
Instrument 1 Direct: Targeted assignments in ECON 506 – Applied Statistical Methods						
Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 1.  Met						
Program Summary (Briefly summarize the action and follow up items from your detailed responses on subsequent pages.)						
Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 1.  Met  Not Met						

This 12-hour program is embedded in the MA in Applied Economics and it shares learning objectives with that program. This assessment is based on those students who are enrolled in the certificate program, which includes the students who were enrolled in the MA program + certificate and the students who were enrolled only in the certificate.

Data on SLO1 could not be obtained beasue there were no certificate students enrolled in the course where that SLO is measured. Instead, the assessment is based on all of the students enrolled in ECON 465G.

The results for SLO2 and SLO3 should be interpreted with caution as they are based on a small sample consisting of only three students.

All three learning objective have been met. This demonstrates improvement relative to the previous assessment cycle during which SLO3 was not met.

Student Learning Outcome 1					
<b>Student Learning Outcome</b>	Students will demonstrate ability to apply econometric modeling techniques to study real-world questions				
Measurement Instrument 1	DIRECT measures of student learning: One of the core courses in the MA in Applied Economics (0410) is Regression and Econometrics (ECON465G), which is also one of the research methods courses in the program. During the course, students learn a variety of econometric techniques. At the end of the course, students have to complete a project during which they have to identify the appropriate econometric technique to study the assigned problem, perform required calculations and interpret their results. This project served as the instrument for measuring this learning objective. Specifically, the following items were assessed:  1. Was the student able to formulate the research question in terms of the appropriate econometric model?  2. Was the student able to perform necessary calculations to estimate the model?  3. Did the student correctly interpret the estimation results?				
Criteria for Student Success	At the end of the program, students should be able to perform at the level of Capstone (4) or Milestone (3) according to LEAP <i>Quantitative Literacy</i> rubric.				
<b>Program Success Target for this</b>	Measurement	80% or more	Percent of Program Achieving Target	92.3	3%
Methods	semester semes scale for each c	ter (N=13). The instructor of the couriterion. The scores were assigned ba	ats enrolled in the ECON 465G course during the arse rated students' projects on the three criteria lased on LEAP <i>Quantitative Literacy</i> rubric items pric, the average score over these three items was	isted above usir (1) Representat	ng a 1-4 tion, (2)
Based on your results, circle or	highlight whether	the program met the goal Student Lea	arning Outcome 1.	Met	Not Met

Student Learning Outcome 2					
Student Learning Outcome	Students will demonstrate appropriate data skills necessary to conduct economic research.				
Measurement Instrument 1	Direct: Targeted assignments in ECON 506 – Applied Statistical Methods course. Among the assignment given throughout the course, students were required to complete assignments that measured their competency in choosing and using the appropriate data management techniques necessary to perform subsequent data analysis. Skills addressed included importing data into statistical software, data management skills (e.g. merging, subsetting datasets) etc.				
Criteria for Student Success	Upon completion of the program, students should perform at the Intermediate or Advanced level.				
Program Success Target for this	get for this Measurement 80% or more Percent of Program Achieving Target 100%			%	
Methods	At the end of the instructor of the ECON 506 course assessed the knowledge of the students on the following scale:  1 – Beginner  2 – Beginner +  3 – Intermediate  4 – Advanced.  The ratings are intended to mirror the <i>Calculation</i> item in the LEAP <i>Quantitative Literacy</i> rubric.  The data are collected from all of the certificate students in the ECON 506 course (N=3), a core course in the MA in Applied Economics.				
Based on your results, circle or l	nighlight whether	the program met the goal Student Learning Ou	utcome 2.	Met	Not Met

Student Learning Outcome 3					
<b>Student Learning Outcome</b>	Students will demonstrate knowledge of statistical tools necessary to conduct economic research.				
Measurement Instrument 1	Direct: Targeted assignments in ECON 506 – Applied Statistical Methods course. Among the assignment given throughout the course, students were required to complete assignments that measured their competency in choosing and using the appropriate statistical tools necessary to conduct analysis of economic data.				
Criteria for Student Success	Upon completion of the program, students should perform at the Intermediate or Advanced level.				
Program Success Target for this Measurement 80% or more Percent of Program Achieving Target 1				100%	
Methods	At the end of the instructor of the ECON 506 course assessed the knowledge of the students on the following scale:  1 – Beginner  2 – Beginner +  3 – Intermediate  4 – Advanced.  The ratings are intended to mirror the <i>Calculation</i> item in the LEAP <i>Quantitative Literacy</i> rubric.  The data are collected from all of the certificate students in the ECON 506 course (N=3), a core course in the MA in Applied Economics.				
Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 3.  Met Not Met				Met Not Met	
All three learning objective I three students.  No action is planned at this t	have been met. Th	ne results should be interpreted w	z. The actions should include a timeline.)  with caution – SLO2 and SLO3 results are b	·	
Follow-Up (Provide your timeline for follow-up. If follow-up has occurred, describe how the actions above have resulted in program improvement.)  We will continue monitoring performance in this program as well it's parent masters program.					