Assurance of Student Learning 2018-2019				
Gordon Ford College of Business Economics				
MA in Applied Economics - 0410				

Use this page	to list learning outcomes, measurements, and summarize results for your program. Detailed information must be complete	d in the subse	equent pages.
Student Lear communication	rning Outcome 1: Students will demonstrate ability to conduct economic research and to communicate their ton.	findings usi	ng <u>written</u>
Instrument 1	Direct: Analysis of Capstone Project		_
Based on your	results, circle or highlight whether the program met the goal Student Learning Outcome 1.	Met	Not Met
Student Lear visual aids.	rning Outcome 2: Students will demonstrate ability to convey research ideas and findings using oral commun	nication and	appropriate
Instrument 1	Direct: Capstone Project Presentation		
Based on your	results, circle or highlight whether the program met the goal Student Learning Outcome 2	Met	Not Met
Student Lear	rning Outcome 3: Students will demonstrate ability to apply econometric modeling techniques to study real-	-world ques	tions.
Instrument 1	Direct: Course project in ECON 465 – Regression and Econometrics		
Based on your	results, circle or highlight whether the program met the goal Student Learning Outcome 3.	Met	Not Met
Student Lear	rning Outcome 4: Students will demonstrate appropriate data skills necessary to conduct economic research.		
Instrument 1	Direct: Targeted assignments in ECON 506 – Applied Statistical Methods		1
Based on your	results, circle or highlight whether the program met the goal Student Learning Outcome 1.	Met	Not Met
Student Lean	rning Outcome 5: Students will demonstrate knowledge of statistical tools necessary to conduct economic res	search.	
Instrument 1	Direct: Targeted assignments in ECON 506 – Applied Statistical Methods		1
Based on your	results, circle or highlight whether the program met the goal Student Learning Outcome 1.	Met	Not Met
Program Sur	nmary (Briefly summarize the action and follow up items from your detailed responses on subsequent pages.)		
mastery in th	objectives have been met. In the process of assessment, a potential area of improvement has been identified: We knowledge of statistical techniques and their applications, the scope of the research topics chosen for the broad, making the project hard to manage, or too narrow, making the results less interesting and applicable.	heir capstor	1 •

Student Learning Outcome 1					
Student Learning Outcome		monstrate their ability to conduct economic r	esearch and to communicate their findin	gs using writte	<u>n</u>
	communication.				
Measurement Instrument 1	DIRECT measures of student learning: Students in the MA in Applied Economics (0410) are required to complete an applied project at the end of the program. Under the mentorship of a faculty member, students choose a research topic, find the relevant data to conduct empirical tests, create an econometric model, and perform necessary data analysis to answer their research questions. Students are instructed to structure their papers similarly to an economics journal article and include an introduction, literature review, data and methodology section, analysis of empirical results, and a conclusion. Papers are evaluated on the following criteria: 1. Did the student formulate an appropriate research question grounded in economic theory? 2. Does the paper contain an adequate literature review? 3. Does the student clearly state the hypothesis and chose an appropriate econometric model to test the hypothesis? 4. Did the student correctly interpret the findings in the paper? 5. Did the student draw correct conclusions based on the results presented in the paper? 6. Did the student discuss limitations of the study and the general applicability of its 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>Inquiry and Analysis</i> rubric.				
Program Success Target for this	Measurement	80% or more	Percent of Program Achieving Target	90.9)%
Methods	data cover the er faculty using a 1 Topic Selection, Limitations and average of the si	were collected from all students who completed in the population of 2018-19 graduates of the planes and the planes are also completed. The scores were also completed in the planes are also completed	program (N=11). The papers were evaluated signed based on LEAP <i>Inquiry and Analiews</i> , (3) Design Process, (4) Analysis, or produced an average score for each page	ated by three ecalysis rubric ite (5) Conclusion uper by comput	conomics ems (1) and (6) ting a simple
Based on your results, circle or	highlight whether t	the program met the goal Student Learning Ou	ntcome 1.	Met	Not Met

Student Learning Outcome 2					
Student Learning Outcome	Students will demonstrate their ability to convey research ideas and findings using oral communication and appropriate visual				
	aids.				
Measurement Instrument 1	DIRECT measures of student learning: Students in the MA in Applied Economics (0410) are required to complete an applied project at the end of the program and present it to the economics faculty. The presentations are organized similarly to a thesis defense: The students deliver a 20-25 presentation of their projects followed by a question/answer session. The presentations are evaluated on the following criteria: 1. Was the information presented effectively?				
	2. Did the student correctly and effectively used economic concepts to convey his or her ideas?3. Were the visual aids (slides or handouts) used effectively?4. Was the presentation well-focused around the central idea of the project?				
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>Oral Communication</i> rubric.				
Program Success Target for this	gram Success Target for this Measurement 80% or more Percent of Program Achieving Target 90.9%				
Methods	The data are based on direct observations of the students' project presentations. The data were collected from all students in the capstone project (ECON 596) and cover the entire population of 2018-19 graduates of the program (N=). Three faculty members served as the assessment committee tasked with evaluating all of the project presentations to ensure consistency of measurement. Students' presentations were rated on the three criteria listed above using a 1-4 scale for each criterion. The scores were assigned based on LEAP <i>Oral Communication</i> rubric items (1) Organization, (2) Language, (3) Supporting Material, (4) and Central Message. Using this rubric, each evaluator produced an average score for each presentation by computing a simple average of the four items of the rubric, with each student receiving three scores – one from each evaluator – and the mean of these three score was computed for each student.				
Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 2. Met Not Met					

	Student Learning Outcome 3					
Student Learning Outcome	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					
	Quantitative Literacy rubric.					
Program Success Target for this	Ieasurement 80%	or more Pe	ercent of Program Achieving Target	83.30	%	
Methods	The instructor of the course rated students' projects on the three criteria listed above using a 1-4 scale for each criterion. The scores were assigned based on LEAP <i>Quantitative Literacy</i> rubric items (1) Representation, (2) Calculation, (3) Application/Analysis. Using this rubric, an average score over these three items was computed for each student				No. of the second secon	
Based on your results, circle or l	Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 2. Met Not Met				Not Met	

Student Learning Outcome 4						
Student Learning Outcome	Students will	demonstrate appropriate data skills necess	ary 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 skills 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 Measurement 80% or more Percent of Program Achieving Target 94.1%					.%	
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 students in the ECON 506 course (N=19), 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 2. Met Not Met					Not Met	

Student Learning Outcome 5					
Student Learning Outcome	Students will d	emonstrate knowledge of statistical	tools necessary to conduct economic research	l.	
Measurement Instrument 1	course, students	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 completio	Upon completion of the program, students should perform at the Intermediate or Advanced level.			
Program Success Target for this	ogram Success Target for this Measurement 80% or more Percent of Program Achieving Target 88.2%				
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 students in the ECON 506 course (N=17), a core course in the MA in Applied Economics.				
Overall, the targets set out for the 90% of the students' performant rating of 3 or higher. This suggestemonstrated high levels profite To address this issue of research	he program have lance was rated as seests that students biency in all other than topic selection	3 or higher. The only item that was beltend to choose the topics that are either aspects. I more examples of the empirical paper	The actions should include a timeline.) In the rubrics used to assess the SLOs show that ow 90% level is the <i>Topic</i> in SLO 1 – 81.8% of a too narrow or too broad. As a whole, however, so the form the economics have been incorporated in section 506. Applied Statistical methods) with	the students received a students in the program the core courses of the	

Follow-Up (Provide your timeline for follow-up. If follow-up has occurred, describe how the actions above have resulted in program improvement.)

students to different types of economic research.

At the end of the 2019-20 academic year, graduating masters' students will be assessed on the same criteria and a more detailed picture will emerge.