Assurance of Student Learning 2018-2019				
Gordon Ford College of Business	Information Systems			
Business Data Analytics 504#				

Use this page	to list learning outcomes, measurements, and summarize results for your program. Detailed informa	tion must b	e completed
	in the subsequent pages.		
Student Lear	ning Outcome 1: Model and computationally analyze business-oriented data		
Instrument 1	In-class examinations and projects		
Instrument 2	Analysis of Capstone Projects / Poster presentations		
Instrument 3			
Based on your r	esults, circle or highlight whether the program met the goal Student Learning Outcome 1.	Met	Not Met
Student Lear	ning Outcome 2: Critically identify appropriate data models to solve business problems		
Instrument 1	In-class examinations and projects		
Instrument 2	Analysis of Capstone Projects / Poster presentations		
Instrument 3			
Based on your r	esults, circle or highlight whether the program met the goal Student Learning Outcome 2.	<b>Met</b>	Not Met
Student Lear	ning Outcome 3: Understand how to present and communicate graphical information related to various data analytic mod	lels	
Instrument 1	In-class examinations and projects		
Instrument 2	Analysis of Capstone Projects / Poster presentations		
Instrument 3			
Based on your r	esults, circle or highlight whether the program met the goal Student Learning Outcome 3.	Met	Not Met
Program Sun	nmary (Briefly summarize the action and follow up items from your detailed responses on subsequent pages.)		
communicate th	" of how findings improved the program was requiring the students to develop a shorter "elevator speech" for their presentation e major points and outcomes of their project in three minutes or less. Faculty evaluations from the previous year indicated stude ir poster presentations.		

Annual review of the curriculum resulted in a redesign of BDAN 310 and BDAN 330 courses. The number of hands-on projects will be increased in BDAN 310 and more emphasis on Structured Query Language (SQL) will be done in BDAN 330.

Student Learning Outcome 1					
<b>Student Learning Outcome</b>	Model and com	putationally analyze business-oriented data			
Measurement Instrument 1	NOTE: Each student learning outcome should have at least one direct measure of student learning. Indirect measures are not required.  Direct measures of student learning. Students were given a final and written projects that required them to synthesize their work in the program's core courses.				
Criteria for Student Success	rubric.	Describe what outcomes or achievements should be reached for a student to have "succeeded" using the instrument above. Please attach rubric.  Students at the end of the program should be able to create an analytical model to solve a current business problem.			
Program Success Target for this	Measurement	90% of the students will be proficient in their ability to analyze data	Percent of Program Achieving Target	95%	
Methods	CIS 243 Principl BDAN 310 - Bu BDAN 330 - Str BDAN 410 - De BDAN 420 - Da BDAN 430 - Da	ven projects to analyze in the following courses:  les of Management Information Systems siness Data Analytics uctured Data Analysis cision Support Systems Analysis and Design ta Mining ta Visualization and Digital Dashboards  ng rubric was used for a final presentation in BDAI ng rubric for the final project was used for BDAN			
Measurement Instrument 2	Analysis of Cap	stone Projects / Poster presentations			
Criteria for Student Success	Students wi	ll develop practical presentations to demonstrat	te the selection of adequate solutions to sp	ecific business problems.	
Program Success Target for this		90% of the students will be proficient in their ability to present their data analytic findings.	Percent of Program Achieving Target	95%	

Methods	BDAN 420 - Da BDAN 430 - Da A detailed gradi	ted the analysis of their projects in the following coata Mining ata Wisualization and Digital Dashboards and rubric was used for a final presentation in BDA and rubric for the final project was used for BDAN	N 420.		
<b>Measurement Instrument 3</b>					
Criteria for Student Success					
Program Success Target for this	Measurement		Percent of Program Achieving Target		
Methods					
Based on your results, circle or h	nighlight whethe	r the program met the goal Student Learning O	utcome 1.	Met	Not Met
Actions (Describe the decision-ma	king process and	actions planned for program improvement. The actions	ctions should include a timeline.)		
Based on feedback from the final	l projects and ex	cams in each of the core classes, the following ch	anges occurred.		
		d to give students more hands-on data analytics proing more SQL in the course to give students more e		s is scheduled to	begin in
		f follow-up has occurred, describe how the actions			
The department evaluates all the machine "Actions" section.	najor and service	courses each year for student and market relevance	e. Examples of changes brought about by the	se discussions ar	re listed in the

		Student Learning Outcome	me 2	
<b>Student Learning Outcome</b>	Critically identify appropriate data models to solve business problems			
Measurement Instrument 1	required. In-class examin	ations and projects of student learning. Students were given a final acourses.		
Criteria for Student Success	Students will con	nvert data modeling results into insights that are u	seful in making decisions.	
Program Success Target for this	Measurement	90%	Percent of Program Achieving Target	95%
Methods	Students were gi	ven projects to analyze in the following courses:		
Measurement Instrument 2	CIS 243 Principles of Management Information Systems BDAN 310 - Business Data Analytics BDAN 330 - Structured Data Analysis BDAN 410 - Decision Support Systems Analysis and Design BDAN 420 - Data Mining BDAN 430 - Data Visualization and Digital Dashboards  A detailed grading rubric was used for a final presentation in BDAN 420. A detailed grading rubric for the final project was used for BDAN 430.			
Wieasurement Histrument 2	Analysis of Cap	stone Projects / Poster presentations		
Criteria for Student Success	Students will be able to explain their data modeling results and give insights about the interpretation of the data.			
Program Success Target for this	Measurement	90%	Percent of Program Achieving Target	95%
Methods	BDAN 420 - Da BDAN 430 - Da A detailed gradii	ed the analysis of their projects in the following of ta Mining ta Visualization and Digital Dashboards ag rubric was used for a final presentation in BDA ag rubric for the final project was used for BDAN	AN 420.	
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 wheth	er the program met the goal Student Learning O	utcome 2.	Met	Not Met	
Actions (Describe the decision-making process ar	d actions planned for program improvement. The ac	ctions should include a timeline.)			
BDAN 310, Business Data Analytics was redesigned to give more students more hands-on data analytics projects. Implementation began in Fall 2019.  BDAN 330. Structured Data Analysis will begin emphasizing more SQL in the course to give students more exposure to Structured Query Language. This is scheduled to begin in Spring 2020.					
<b>Follow-Up</b> (Provide your timeline for follow-up.	If follow-up has occurred, describe how the actions	above have resulted in program improvemen	ıt.)		
The department evaluates all the major and servic "Actions" section.	courses each year for student and market relevance	. Examples of changes brought about by the	ese discussions a	re listed in the	

Student Learning Outcome 3				
<b>Student Learning Outcome</b>	Understand how to present and communicate graphical information related to various data analytic models			
Measurement Instrument 1	NOTE: Each student learning outcome should have at least one direct measure of student learning. Indirect measures are not required.			
	Direct measures of student learning. Students were given a final and written projects that required them to synthesize their work in the program's core courses.  The faculty also participated in evaluating the student poster presentations. Discussions and a grading rubric for student presentations were used to provide feedback to the students and the instructor for future improvements.			
Criteria for Student Success	Students will be	able to present and explain their results using vari	ous analytical tools.	
<b>Program Success Target for this</b>	Measurement	90%	Percent of Program Achieving Target	95%
Methods	Students were required to present their research findings in a poster presentation in BDAN 420, Data Mining, and develop data visualization results in BDAN 430, Data Visualization and Digital Dashboards			

	A detailed grading rubric was used for a final presentation in BDAN 420. A detailed grading rubric for the final project was used for BDAN 430.					
Measurement Instrument 2	Analysis of Capstone Projects / Poster presentations					
Criteria for Student Success	Students will be able to present and explain their model results in a research forum.					
<b>Program Success Target for this</b>	Measurement	90%	Percent of Program Achieving Target	Farget 95%		
Methods	results in BDAN  A detailed gradi	equired to present their research findings in V 430, Data Visualization and Digital Dashing rubric was used for a final presentation in grubric for the final project was used for	in BDAN 420.	nd develop data	visualization	
Measurement Instrument 3						
Criteria for Student Success						
<b>Program Success Target for this</b>	Measurement		Percent of Program Achieving Target			
Methods						
Based on your results, circle or h	nighlight whether	r the program met the goal Student Lear	ning Outcome 3.	Met	Not Met	
		actions planned for program improvement.				
Based on feedback from the post	ter presentation,	a "Pitch" presentation rubric was develo	oped for BDAN 420, Data Mining.			
Follow-Up (Provide your timeline	for follow-up. If	follow-up has occurred, describe how the	actions above have resulted in program improvemen	nt.)		
Follow-up will occur when the nex	kt poster presentat	ion happens for the BDAN 420 course, Fal	1 2020.			