		Table 4.1 - Star	ndard 4 Student Learning A
		Use this	table to supply data for Criterior
Performance Indicator	 You must provide assessments results for each program, concentration, specialization formative and comparative results. A student learning outcome is one that measures a specific competency attainment. <i>Examples of a direct assessmet examination, faculty-designed examination, professional performance, licensure examination)</i>. Add these to the destination of the student performance by examining samples of student work Indirect - Assessing indicators other than student work such as getting feedback from the student or other persons Formative – An assessment conducted during the student's education. Summative – An assessment conducted at the end of the student's education. Internal – An assessment instrument that was developed within the business unit. External – An assessment instrument that was developed outside the business unit. Comparative – Compare results to external students using data from the U.S. Department of Education Research classes, online and on ground classes, professors, programs, campuses, etc. 		
1. Student Learning Results			
			Analysis of Results
Identified in Criterion 4.1	Identified in Criterion 4.2		in Criterion 4.3
Approach	Deployment (Do not use course grades or GPA)	Results	Analysis of Results
Program Learning objectives <u>SLO1</u> , SLO2, etc.	What is your measurement instrument or process?	What are your current results?	What did you learn from the results?
AAS Business and AAS Computer Informa	ition Technology		
1.1 Students will be able to demonstrate the ability to participate successfully in interpersonal and group interactions. 70% of students will correctly answer 70% or more questions correctly.	In BUSN 1310 (Business Communication), students are to answer multiple choice questions about good listening skills and habits. This is a direct, formative, and internal assessment.	This measurement met benchmark until there was a dip in Spring 21 and Fall 21. More emphasis was placed on listening skills and scores improved in 2022. We will continue to monitor.	Some students may not understand the vocabulary of business communication this early in the semester based on the responses to some answers.
1.2 Students will be able to create clear, concise, well-organized, written business documents such as letters, email correspondence, memos, and reports that can be used in an effective manner. 70% of students will score Level 3 or higher on rubric	In BUSN 2375 (Career Development), one of their letters will be graded using the business correspondence rubric. This is a direct, formative, internal assessment.	The business unit continues to meet this benchmark.	Correspondence examples, especially videos, have been excellent in teaching proper content and formatting.
3.2 Understand how economic decisions in a democratic society can affect the individuals living in that system. 70% of students score 70% or higher on EOC questions	In Macroeconomics, ECON 2100, students answer questions on the final exam over basic economic principles. This is a direct, summative, and internal assessment.	Spring 2018, changes were made and we reached the benchmark. The scores remain steady.	The first results were not satisfactory. It was clear that these learning objectives were not being taught well enough. Changes were made in 2018.
1.4 Students will be able to use electronic communication methods to communicate with others. 70% of students will meet 70% or more of checklist criteria.	In BUSN 1310 (Business Communication), students are measured based on their electronic correspondence. This is a direct, formative, and internal assessment.	The business unit continues to meet this benchmark.	Correspondence examples, especially video, have been excellent in teaching proper content and formatting.

Assessment

on 4.1.

zation, etc. accredited or to be accredited. You must have direct, summative,

ment (evidence) of student learning attainment that might be used include: capstone performance, third-party description of the measurement instrument in column two:

ns who may provide relevant information.

ch and Statistics, or results from a vendor providing comparable data. Internal comparative data may be between





		1	I
5.1 Students will be able to demonstrate an understanding of the basic interaction of economic supply and demand. 70% of students score 70% or higher on Supply	In ECON 2100 (Macroeconomics), students demonstrate their knowledge of supply and demand by answering questions. This is a direct, formative, and internal assessment.	Changes were made in 2018 and benchmark was reached. The business unit will continue to monitor.	This is a difficult concept for students.
6.1 Students will be able to demonstrate knowledge and ability to format and manipulate a Microsoft Access database.70% of students score 70% or higher on	In CITC 1303 (Database Concepts), students correctly complete selected tasks on MOS certification exam. This is a direct, formative, and internal assessment.	Scores have improved dramatically since the change in platforms in 2020.	These results are consistently low. Spring 2019 was just slightly higher, but nothing of significance.
And Dusiness. Dusiness Management, Ad			
1.3 Students will be able to deliver an effective business presentation. 70% of students will score 70% or higher on oral	In BUSN 2395 (Business Applications), students give a oral presentation at the end of the course. This is a direct, formative, summative, and internal assessment.	2020 likely due to procautions	Students have historically consistently made effective business presentations. During the last semester reported, one student in the group did not meet the standard. Making effective business presentations is a skill we must always focus on.
1.6 Students will be able to solve problems using quantitative data in business situations. 70% of students will score 70%	problems. This is a direct,	Student scores continue to be acceptable. Faculty will continue to monitor.	Changes were made to the course and measurements were not taken during the 2017 or 2019 years.
2.2 Students will be able to understand basic accounting principles. 70% of students score 70% or higher on	In ACCT 1010 (Accounting I), students will answer basic accounting questions. This is a direct, formative, and internal assessment.	There was a decrease in succcess rates in Fall 2020. We attribute this to remote learning.	Students are meeting the criterion; however, there appears to be a downward trend.



		-	
	In BUSN 2395 (Business		
4.1 Students will be able to apply business	Applications), students are		
and management knowledge to effectively	evaluated by employers		
work in a business. 70% of students score	based on their internship performance. This is an	Employer evaluations continue	Evaluations are consistently high for
70% or higher on employer evaluations. (Business Unit Strategic Plan 2.7, College	indirect, formative, and	to be strong and are an	Evaluations are consistently high for our graduating students. Employers
Strategy 1.2)	internal assessment.	acceptable level.	are pleased with their performance.
AAS Business, Business Management			are pleased with their performance.
And Business, Business management			
	In RUCH 1220		
2.1 Students will be able to apply	In BUSN 1330 (Entrepreneurship), students		
marketing and economic knowledge to	are evaluated on their	There has been a slight	In addition to the sample marketing
effectively develop a business solution.	marketing knowledge. This is	downturn below benchmark	plan provided in the course, we also
70% of students score 70% or higher on	a direct, formative, and	for this measurement. We will	covered the relevant textbook
entrepreneurship marketing rubric.	internal assessment.	continue to monitor.	example more thoroughly.
	In BUSN 1330		
	(Entrepreneurship), students are evaluated on their	Scores have flucuated over	
3.1 Students will be able to create a	business plan knowledge.	the semesters. We will	The business plan is now divided into
business plan. 70% of students score 70%	This is a direct, formative,	continue to monitor and	four sub assignments, and the
or higher on entrepreneurship rubric.	and internal assessment.	adjust as necessary	spacing intervals are appropriate.
1.5 Students will be able to evaluate			
information to determine if the premises	In BUSN 1330		
are valid to identify key facts and	(Entrepreneurship), students		
arguments, and to determine what	are evaluated on their critical		The additional writing assignments
appropriate action, if any, is warranted.	thinking skills. This is a	Scores are trending upwards	involving a relevant scenario by
70% of students will score 70% or higher	direct, formative, and internal		chapter have contributed to a better
on critical thinking rubric.	assessment.	are added in 2022.	result regarding critical thinking.
AAS Business, Administrative Technical P	rofessional		
7.2 Students will be able to correctly	In BUSN 1311 (Word		
format business documents including	Processing) students will	Small sample size leads to	Students did better with videos they
tables, letters, memos, and reports. 70%	correctly format a business	high variability. We will	could access to assist with the
of students will score 70% or higher.	document	continue to monitor scores.	assignments.
AAS Business, Medical Office			











Next step is to submit additional marketing

plans for student review in addition to the

course example.

The plan will be assigned in the future in four sub assignments. Also, if the Motlow State Entrepreneurship Fair is held this fall, student business plans will be submitted for that event.

Writing assignments involving critical thinking will continue to be assigned by chapter.



More videos are in the process of being created or have already been created to assist with the more difficult assignments.

7.3 Students will be able to correctly navigate an Electronic Health Record system including inputting new patients and updating appointments. 70% of	system.	Success rates are increasing. No change is recommended,	(a dialog box that needed to be constantly moved because it blocked the EHR screen was replaced with a bar at the top of the screen that did not block it). The grades improved	The software was one that most closely resembled a true EHR; however, the dialog box had to be regularly moved so the user could complete assignments in the software. There were a few complaints, but after it changed, there were none. In the future, more attention will be paid to those type of possible issues.
AAS Computer information Technology: C	yber Defense, Networking, Pro	bgramming		
and utilize computer networking	direct, formative, internal	-	review prior to completing Exams. Second, shutdown of in-person classes due to the Coronavirus which removed the hands-on part of the course which provides opportunity to work with real equipment making learning practical and more	When the campus computer labs is open again and students can experiment with rea equipment, these scores should right themselves. With the knowledge that quizzes have been eliminated from Cisco's curriculum gives us the opportunity to add our own self-assessments so the student knows where they need to focus more attention.
work in a business. 70% of students will score 70% on final employee evaluation. (Business Unit Strategic Plan 2.7, College	students are evaluated by employers based on their internship performance. This	Results have been 100% for the past several semesters. Measurements need to be revisited to find an area that needs improvement.		We will continue to send our employers prepared and qualified students.
	make decisions using programming logic. This is an indirect, formative, and	Results have been steady for this measurement until last semester. We will continue to monitor to be sure results improve.	Our students do well making decisions when writing programs. Focus is on program efficiency as well as overall program functionality.	We will continue to measure results and adjust as needed.
develop a computer program to solve a	programming logic. This is an indirect, formative, and internal assessment.			We will continue this focus and keep measuring results.





Employer Evaluations 100 100 100 100 100 100 80 60 40 20 0 Spring Fall 2019 Spring Spring Summer 2019 n=9 n=3 2021 n=8 2022 n=10 2022 n=7 **Decision Making** 100 90 89 81 80







9.2 Students will be able to describe how risk is identified and assessed. 100% of students will score 70% on quiz questions.		Results are consistently around 90%. No change recommened.	Students are meeting the minimum criterion.
AAS Computer Information Technology, N		1	
8.2 Students will be able to demonstrate skills to configure basic network IP settings within Windows Server installation. 70% of students will score 70% on lab simulation.	network configurations. This is a direct, formative, and internal assessment.	Beginning in Spring 2022, the course was revamped and taught by a different instructor. We will continue to monitor results.	Small sample size coupled with the lab closures led to a decrease in performance. The lab simulations are an effective learning tool.
AAS Computer Information Technology, P	rogramming		
10.3 Students will be able to design and compose an assembly language program. 70% of students will score 70% on exam questions.	In CISP 2410 (Assembly Language Programming), students will design and compose a program using specified design techniques. This is a direct, formative, and internal assessment.	Scores remain consistent	Scores are fairly consistent across all semesters. The slight up-tick in scores in Spring 2020 possibly due to the fact the exam was given online giving the students more flexibility and time to form their answers.
AS Business: Business Administration, Ad		e, Management, Marketing, Info	ormation Systems
11. Students will be able to understand how economic decisions in a democratic society can affect the individuals living in that system.70% of students score 70% or higher on Supply and Demand Questions.	answering questions. This is a direct, formative, and internal assessment.	Goal was not met in spring 2017 but actions taken resulted in goal being met since that date. Since 2018, scores are meeting the benchmark with a slight improvement in 2022.	The first assessment showed that changes were needed.
12. Students will be able to apply mathematical or statistical reasoning to solve business related issues. Questions are answered correctly at least 70% of the time	In MATH 1530 (Statistics), students will apply mathematical or statistical reasoning to analyze data and graphs. This is a direct, formative, and external assessment.	Results are within acceptable levels	There have been steady success rates.
13. Students will be able to understand basic accounting principles. 70% of students score 70% or higher on accounting exam questions.	In ACCT 1010 (Accounting I), students will answer basic accounting questions. This is a direct, formative, and internal assessment.	There was a decrease in	
		succcess rates in Fall 2020. We attribute this to remote learning.	Students are meeting the criterion.



Faculty will continue to monitor results, and we plan to update the videos and explanations available in Online Campus as needed.



We are proposing to incorporate industry certification labs into the final exam.

We will continue to focus on design

techniques and track measurement results.



Supply and Demand, AS

Majors



The study guide and lecture PowerPoints were updated.

Fall 2018, we transitioned the Learning Support courses from being solely algebrabased (with common objectives, regardless of the college-level course) to ones where the content was dependent on the collegelevel course. Statistical Reasoning, AS





We will continue to monitor results, and we plan to maintain and update the resources inside Online Campus.

			_
14. Students will be able to use technology	In MATH 1530 (Statistics),		
effectively to solve problems. Questions	students will use technology		
are answered correctly at least 70% of the	for mathematical reasoning		
time	and problem solving. This is a		
	direct, formative, and		
	external assessment.	Changes were implemented in	
		5	
		2019 to meet benchmark.	
		Results are within acceptable	There have been steady success
		levels	rates.
AS Business, Accounting			
15. Students will be able to demonstrate	In ACCT 1010 (Accounting I),		
analytical problem solving that is inherent	students will use the current		
in this profession. 70% of students score	ratio to assess a company's		
70% or higher on unit 3 exam questions.	short-term liquidity with		
	respect to its available assets		
	and pending liabilities. This is		
	a direct, formative, and		
	internal assessment.		
	internal assessment.		
		Results are lower than we	Because students did not meet the
		would like. Accounting majors	minimum criterion, we are revisiting
			the examples and explanations
			provided.
AS Duciness Duciness Administration		are presently.	
AS Business, Business Administration		I	
16. Students will be able to demonstrate	In ACCT 1010 (Accounting I),		
competence in basic accounting skills.	students will apply		
70% of students score 70% or higher on	accounting concepts related		
unit 1 exam questions.	to double entry accounting.		
	This is a direct, formative,		
	and internal assessment.		
		Results are lower than	
		benchmark. Videos and more	Students are not consistently
		explanations should increase	meeting the minimum criterion. We
		scores.	will incorporate videos in Fall 2013.
AS Rucinosa, Economica			
AS Business, Economics		1	
17. Students will be able to apply		1	
17. Students will be able to apply economic analysis to everyday problems to	In ECON 2200		
17. Students will be able to apply	In ECON 2200 (Microeconomics), students		
17. Students will be able to apply economic analysis to everyday problems to	(Microeconomics), students		
17. Students will be able to apply economic analysis to everyday problems to a real world situation. 70% of students	(Microeconomics), students will correctly answer test		The ECON department recently
17. Students will be able to apply economic analysis to everyday problems to a real world situation. 70% of students	(Microeconomics), students will correctly answer test questions that cover circular		switched to a new textbook. The
17. Students will be able to apply economic analysis to everyday problems to a real world situation. 70% of students	(Microeconomics), students will correctly answer test questions that cover circular flow diagrams, opportunity		•
17. Students will be able to apply economic analysis to everyday problems to a real world situation. 70% of students	(Microeconomics), students will correctly answer test questions that cover circular flow diagrams, opportunity costs, and economic effect of		switched to a new textbook. The
17. Students will be able to apply economic analysis to everyday problems to a real world situation. 70% of students	(Microeconomics), students will correctly answer test questions that cover circular flow diagrams, opportunity costs, and economic effect of disease. This is a direct,		switched to a new textbook. The results show that the switch was
17. Students will be able to apply economic analysis to everyday problems to a real world situation. 70% of students	(Microeconomics), students will correctly answer test questions that cover circular flow diagrams, opportunity costs, and economic effect of	Scores are consistently 100%	switched to a new textbook. The results show that the switch was
17. Students will be able to apply economic analysis to everyday problems to a real world situation. 70% of students	(Microeconomics), students will correctly answer test questions that cover circular flow diagrams, opportunity costs, and economic effect of disease. This is a direct,	Scores are consistently 100% which is expected for	switched to a new textbook. The results show that the switch was
17. Students will be able to apply economic analysis to everyday problems to a real world situation. 70% of students	(Microeconomics), students will correctly answer test questions that cover circular flow diagrams, opportunity costs, and economic effect of disease. This is a direct, formative, and internal	Scores are consistently 100%	switched to a new textbook. The results show that the switch was
17. Students will be able to apply economic analysis to everyday problems to a real world situation. 70% of students	(Microeconomics), students will correctly answer test questions that cover circular flow diagrams, opportunity costs, and economic effect of disease. This is a direct, formative, and internal	Scores are consistently 100% which is expected for	switched to a new textbook. The results show that the switch was
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17. Students will be able to apply economic analysis to everyday problems to a real world situation. 70% of students score 70% or higher on test questions.	(Microeconomics), students will correctly answer test questions that cover circular flow diagrams, opportunity costs, and economic effect of disease. This is a direct, formative, and internal assessment. In ECON 2200 (Microeconomics), students will correctly answer test	Scores are consistently 100% which is expected for	switched to a new textbook. The results show that the switch was successful.
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17. Students will be able to apply economic analysis to everyday problems to a real world situation. 70% of students score 70% or higher on test questions.	(Microeconomics), students will correctly answer test questions that cover circular flow diagrams, opportunity costs, and economic effect of disease. This is a direct, formative, and internal assessment. In ECON 2200 (Microeconomics), students will correctly answer test questions that cover firm ownership, principle of	Scores are consistently 100% which is expected for	switched to a new textbook. The results show that the switch was successful.
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 17. Students will be able to apply economic analysis to everyday problems to a real world situation. 70% of students score 70% or higher on test questions. AS Business, Finance 18. Students will be able to demonstrate an understanding of financial markets and their role in business. 70% of students score 70% or higher on test questions. 	(Microeconomics), students will correctly answer test questions that cover circular flow diagrams, opportunity costs, and economic effect of disease. This is a direct, formative, and internal assessment. In ECON 2200 (Microeconomics), students will correctly answer test questions that cover firm ownership, principle of diversification, and investments. This is a direct, formative, and internal assessment. In ACCT 1010 (Accounting 1), students will record	Scores are consistently 100% which is expected for Economics majors. Current results are acceptable. There is a large fluctuation due to small	switched to a new textbook. The results show that the switch was successful.
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100 80

0

Fall 2018 Spring Fall 2019 Fall 2020 Fall 2021 Fall 2022 n=10 2019 n=3 n=4 n=3 n=7 n=14

Problem Solving, AS

81

85

79

Since it is difficult to evaluate, faculty will closely monitor the results. To ensure students have every opportunity to succeed, faculty will provide financial statements for a faux business, in addition to the current resources available in Online Campus.



Exam Questions, Management

AS Business, Marketing			
20. Students will be able to use presentation software for data analysis. 70% of students score 70% or higher on performance exam questions.	In INFS 1010 (Computer Applications), students will create and modify tables and charts using presentation software. This is a direct, formative, and internal assessment.	Results are consistent except Spring 2019. Changes were made to increase success rates.	The sample size for these measurements are incredibly small. It is difficult to form a valid conclusion from such small numbers.
AS Business, Information Systems 21. Students will be able to create business related reports and documents using office application software. 70% of students score 70% or higher on performance exam questions	In INFS 1010 (Computer Applications), students will use Excel charts and formulas to solve problems. This is a direct, formative, and internal assessment.		The sample size for these measurements are incredibly small. It is difficult to form a valid conclusion from such small numbers.

Comparative Analysis			
AS Business, Information Systems			
Students will be able to create business related reports and documents using office application software. 70% of students score 70% or higher on performance exam questions	Compared Columbia, Franklin, Lawrenceburg, Lewisburg, and Online Sections for the Information Systems assessment.	Fall 2019 Columbia n=2 50% Franklin n=8 75% Lawrenceburg n=1 100% Lewisburg n=1 100% Online n=7 71%	Some campuses have very low numbers of Information Systems majors taking INFS 1010.
AS Business, Marketing			·
Students will be able to use presentation software for data analysis. 70% of students score 70% or higher on performance exam questions.	Compared Columbia, Franklin, Lawrenceburg, Lewisburg, and Online Sections for the Marketing assessment.	Fall 2019 Columbia n=2 50% Franklin n=8 63% Lawrenceburg n=1 100% Lewisburg n=1 100% Online n=7 71%	Some campuses have very low numbers of Marketing majors taking INFS 1010.
AS Business, Statistical Reasoning by Maj	or		1
solve business related issues. Questions are answered correctly at least 70% of the	Compared AS degree students by major for statistical reasoning by analyzing data and graphs.	Fall 2022: Accounting n=9 96% Business n=65 88% Economics n=4 83% Finance n=3 85% Information Sys n=5 75% Management n=13 87% Marketing n=13 85%	There has been a slight increase success from Fall 17 to Fall 19 in all but economics majors. The n in the the chart represents the average number of students assessed during these 3 semesters.





		Fall 2022: Accounting n=9 89% Business n=65 85%	
Students will be able to use technology	Compared AS degree students by major using	Economics n=4 100% Finance n=3 85%	
effectively to solve problems. Questions are answered correctly at least 70% of the	technology for mathematical reasoning and problem	Information Sys n=5 100% Management n=13 81%	
time	solving.	Marketing n=13 92%	



There has been a slight increase success from Fall 17 to Fall 19. The n in the the chart represents the average number of students assessed during these 3 semesters.