

Program: **BIT Major** (Fogelman College of Business & Economics) - Spring 2019

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## Executive Summary

### *2018-2019*

Summary: For the BIT Major (Business Information & Technology), eight (8) learning outcomes were assessed using the college-wide Fogelman Skills Test (FST) assessment instrument. The FST assessment instrument consists of 35 multiple choice questions that includes 26 questions covering a cross-section of core business areas and 9 questions covering upper division questions specific to the study of BIT. For BIT majors, there were four (4) core BIT learning outcomes and four (4) upper-division learning outcomes: CORE.BIT.LO1 (Understand & apply general MIS concepts & terms), CORE.BIT.LO2 (Possess spreadsheet skills using Excel essential to business operations), CORE.BIT.LO3 (Understand/apply business analytics concepts & terms), CORE.BIT.LO4 (Understand/apply general database concepts & terms), MAJOR.BIT.LO1 (Understand/apply systems analysis processes), MAJOR.BIT.LO2 (Perform essential tasks related to building relational databases), MAJOR.BIT.LO3 (Perform essential skills related to software programming), MAJOR.BIT.LO4 (Understand/apply basic project management skills & techniques). Questions from each LO were randomly selected from a larger question library as a means of strengthening the reliability of the outcomes measured. A benchmark of 60% correct answers within each learning outcome (LO) was set by the BIT department. Thus, for any LO with a collective score of <60%, corrective efforts were established and implemented.

Results: A total of 40 BIT graduating seniors were assessed in the Spring of 2019 with four LOs not meeting the 60% correct benchmark (CORE.BIT.LO2, MAJOR.BIT.LO1, MAJOR.BIT.LO2, MAJOR.BIT.LO3).

Improvements taken: For CORE.LO2 (Excel Skills) [SCORE=52%], the students fell short on questions related to building custom formulas; so the program has reinforced its use of the Microsoft Certification Exam across all sections of MIS-2749 and introduced additional Excel-based activities in MIS-3210. For MAJOR.LO1 (Systems Analysis) [SCORE=51%], the students fell short on concepts related to Agile Methodology, so the program has added case study assignments to the project management course (MIS 4672) that addresses the topic of systems analysis as it applies to the requirements definition stage of project management. For MAJOR.LO2 (Building Relational Databases) [SCORE=52%], the students fell short on concepts related to SQL programming; so the program has added a learning module to the course MIS 3210, critical thinking and using data analytics that addresses the topic of database design as it relates to the data collection processes. For MAJOR.LO3 (Software Programming), the students fell short on concepts related to the Java programming environment and the coding language; so the program has [COMPLETE].

OUTCOMES	MEANS OF ASSESSMENT & BENCHMARKS/TASKS	RESULTS	ACTION TAKEN & FOLLOW-UP
<p><b>CORE.BIT.LO1:</b> Understand/apply general MIS concepts and terms.</p> <p><b>Outcome Status:</b> Active</p>	<p><b>Course Embedded Assessments -</b> BIT students were assessed in either MGMT-4710 or MIS-4310 using the FST (Fogelman Skills Test) assessment instrument which included questions assessing knowledge in both core and advanced areas of their business studies.</p> <p><b>Benchmark (and how determined):</b> The department’s goal is that students will answer a minimum of 60% of the questions correctly within a given learning outcome.</p>	<p><b>Reporting Cycle:</b> 2018 – 2019</p> <p><b>Result Type:</b> Criterion Met A review of results from the assessment process showed that BIT students answered 84% of the MIS Concepts (CORE.BIT.LO1) questions correctly. Thus, our goal was met for this learning outcome.</p>	<p><b>Action Taken:</b> Since the benchmark was met for this LO, no corrections were merited.</p>
<p><b>CORE.BIT.LO2:</b> Understand/apply Excel spreadsheet skills essential to business operations.</p> <p><b>Outcome Status:</b> Active</p>	<p><b>Course Embedded Assessments -</b> BIT students were assessed in either MGMT-4710 or MIS-4310 using the FST (Fogelman Skills Test) assessment instrument which included questions assessing knowledge in both core and advanced areas of their business studies.</p> <p><b>Benchmark (and how determined):</b> The department’s goal is that students will answer a minimum of 60% of the questions correctly within a given learning outcome.</p>	<p><b>Reporting Cycle:</b> 2018 – 2019</p> <p><b>Result Type:</b> Criterion Not Met A review of results from the assessment process showed that BIT students only answered 52% of the Excel skills (CORE.BIT.LO2) questions correctly. Thus, our goal was not met for this learning outcome.</p>	<p><b>Action Taken:</b> The 52% accuracy in answering Excel skills questions fell below the benchmark of 60% set by the department. To address this deficiency, the Department of BIT has reaffirmed its use of the Microsoft Excel Certification exam in MIS-2749 and incorporated more hard-skills activities using Excel in MIS-3210.</p>

<p><b>CORE.BIT.LO3:</b> Understand/apply business analytics concepts and terms.</p> <p><b>Outcome Status:</b> Active</p>	<p><b>Course Embedded Assessments -</b>                  BIT students were assessed in either MGMT-4710 or MIS-4310 using the FST (Fogelman Skills Test) assessment instrument which included questions assessing knowledge in both core and advanced areas of their business studies.</p> <p><b>Benchmark (and how determined):</b>                  The department’s goal is that students will answer a minimum of 60% of the questions correctly within a given learning outcome.</p>	<p><b>Reporting Cycle:</b> 2018 – 2019</p> <p><b>Result Type:</b> Criterion Met</p> <p>A review of results from the assessment process showed that BIT students answered 71% of the business analysis concepts (CORE.BIT.LO3) questions correctly. Thus, our goal was met for this learning outcome.</p>	<p><b>Action Taken:</b> Since the benchmark was met for this LO, no corrections were merited.</p>
<p><b>CORE.BIT.LO4:</b> Understand/apply general database concepts and terms.</p> <p><b>Outcome Status:</b> Active</p>	<p><b>Course Embedded Assessments -</b>                  BIT students were assessed in either MGMT-4710 or MIS-4310 using the FST (Fogelman Skills Test) assessment instrument which included questions assessing knowledge in both core and advanced areas of their business studies.</p> <p><b>Benchmark (and how determined):</b>                  The department’s goal is that students will answer a minimum of 60% of the questions correctly within a given learning outcome.</p>	<p><b>Reporting Cycle:</b> 2018 – 2019</p> <p><b>Result Type:</b> Criterion Met</p> <p>A review of results from the assessment process showed that BIT students answered 73% of the general database concepts (CORE.BIT.LO4) questions correctly. Thus, our goal was met for this learning outcome.</p>	<p><b>Action Taken:</b> Since the benchmark was met for this LO, no corrections were merited.</p>
<p><b>MAJOR.BIT.LO1:</b> Understand/apply systems analysis processes.</p> <p><b>Outcome Status:</b> Active</p>	<p>BIT students were assessed in either MGMT-4710 or MIS-4310 using the FST (Fogelman Skills Test) assessment instrument which included questions assessing knowledge in both core and advanced areas of their business</p>	<p><b>Reporting Cycle:</b> 2018 – 2019</p> <p><b>Result Type:</b> Criterion Not Met</p> <p>A review of results from the assessment process showed that BIT students only</p>	<p><b>Action Taken:</b> The 51% accuracy in answering systems analysis questions fell below the benchmark of 60% set by the department. To address this deficiency, the Department of BIT has</p>

	<p>studies.</p> <p><b>Benchmark (and how determined):</b> The department’s goal is that students will answer a minimum of 60% of the questions correctly within a given learning outcome.</p>	<p>answered 51% of the Systems Analysis (MAJOR.BIT.LO1) questions correctly. Thus, our goal was not met for this learning outcome.</p>	<p>added case study assignments to the project management course, MIS 4672 that addresses the topic of systems analysis as it applies to the requirements definition stage of project management.</p>
<p><b>MAJOR.BIT.LO2:</b> Perform essential tasks related to building relational databases.</p> <p><b>Outcome Status:</b> Active</p>	<p>BIT students were assessed in either MGMT-4710 or MIS-4310 using the FST (Fogelman Skills Test) assessment instrument which included questions assessing knowledge in both core and advanced areas of their business studies.</p> <p><b>Benchmark (and how determined):</b> The department’s goal is that students will answer a minimum of 60% of the questions correctly within a given learning outcome.</p>	<p><b>Reporting Cycle:</b> 2018 – 2019</p> <p><b>Result Type:</b> Criterion Not Met A review of results from the assessment process showed that BIT students correctly answered only 52% of the questions on building relational databases (MAJOR.BIT.LO2) correctly. Thus, our goal was not met for this learning outcome.</p>	<p><b>Action Taken:</b> The 51% accuracy in answering relational database questions fell below the benchmark of 60% set by the department. To address this deficiency, the Department of BIT has added a learning module to the course MIS 3210, critical thinking and using data analytics that addresses the topic of database design as it relates to the data collection processes</p>
<p><b>MAJOR.BIT.LO3:</b> Perform essential tasks related to software programming.</p> <p><b>Outcome Status:</b> Active</p>	<p>BIT students were assessed in either MGMT-4710 or MIS-4310 using the FST (Fogelman Skills Test) assessment instrument which included questions assessing knowledge in both core and advanced areas of their business studies.</p> <p>Benchmark (and how determined): The department’s goal is that students will answer a minimum of 60% of the questions correctly within a given learning outcome.</p>	<p><b>Reporting Cycle:</b> 2018 - 2019</p> <p><b>Result Type:</b> Criterion Not Met A review of results from the assessment process showed that BIT students correctly answered only 57% of the questions related to software development (MAJOR.BIT.LO3) questions correctly. Thus, our goal was not met for this learning outcome.</p>	<p><b>Action Taken:</b> The 57% accuracy in answering software development questions fell below the benchmark of 60% set by the department. To address this deficiency, the Department of BIT has added a learning module to the course MIS 4760, web site design and development that addresses the topic of programming in PHP as it applies to processing data input by website visitors using web-based data entry forms.</p>

<p><b>MAJOR.BIT.LO4:</b> Understand/apply basic project management concepts &amp; techniques.</p> <p><b>Outcome Status:</b> Active</p>	<p>BIT students were assessed in either MGMT-4710 or MIS-4310 using the FST (Fogelman Skills Test) assessment instrument which included questions assessing knowledge in both core and advanced areas of their business studies.</p> <p>Benchmark (and how determined): The department's goal is that students will answer a minimum of 60% of the questions correctly within a given learning outcome.</p>	<p><b>Reporting Cycle:</b> 2018 – 2019</p> <p><b>Result Type:</b> Criterion Met A review of results from the assessment process showed that BIT students answered 75% of the project management concepts and techniques (MAJOR.BIT.LO4) questions correctly. Thus, our goal was met for this learning outcome.</p>	<p><b>Action Taken:</b> Since the benchmark was met for this LO, no corrections were merited.</p>
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