



THE MASTER'S
UNIVERSITY

AEFIS Direct Assessment Summary Report

For the **BS in Computer & Information Sciences** Program

for the Fall 2017 – Spring 2019 Terms

Including Program-level Learning Outcome Data for:

BS in Computer & Information Sciences – Core

BS in Computer & Information Sciences – Computer Science

BS in Computer & Information Sciences – Information Systems



Report Parameters

Program: **TMU BS in Computer & Information Sciences - Core**
 Term: **2019 Spring TMU Trad, 2018 Summer TMU Trad and 3 more...**
 Detail Level: **Learning Indicator**
 Athletic Status: **No records found!**
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Direct Assessment Summary Report

Export ?

PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.BS.CIS.01	Demonstrate a working knowledge of the software development cycle, its phases, and the purposes and activities of each.			
U.BS.CIS.1.PI01	Describe the relative advantages and disadvantages among several major process models (e.g., waterfall, iterative, and agile).	18		89 %
U.BS.CIS.1.PI02	Differentiate among the phases of software development.	18		89 %
U.BS.CIS.1.PI03	Explain the concept of a software lifecycle and provide an example, illustrating its phases including the deliverables that are produced.	18		72 %
U.BS.CIS.1.PI04	List the key components of a use case or similar description of some behavior that is required for a system.	18		78 %
U.BS.CIS.1.PI05	Identify both functional and non-functional requirements in a given requirements specification for a software system.	18		72 %
U.BS.CIS.1.PI06	Compare the plan-driven and agile approaches to requirements specification and validation and describe the benefits and risks associated with each.	18		83 %
Average Student Performance Level across all PIs for this PLO.		108		81 %
U.BS.CIS.02	Demonstrate ability to effectively design, write, debug, and test computer programs accurately using syntax, semantics, and common data structures.			
U.BS.CIS.2.PI01	Program demonstrates consistently formatted, readable, well-documented code.	8		100 %
U.BS.CIS.2.PI02	Program demonstrates efficient, concise, modular construction.	8		88 %

U.BS.CIS.2.PI03	Program compiles successfully.	8		88 %
U.BS.CIS.2.PI04	Program runs all test cases without error.	8		88 %
U.BS.CIS.2.PI05	Program performs stated objectives.	8		88 %
Average Student Performance Level across all PIs for this PLO.		40		90 %
U.BS.CIS.03	Demonstrate a working knowledge of major computer hardware components, including the ability to troubleshoot, repair, upgrade, and install components.			
U.BS.CIS.3.PI01	Student demonstrates a working knowledge of PC components.	19		100 %
U.BS.CIS.3.PI02	Student demonstrates an ability to troubleshoot and repair common PC hardware failures.	19		100 %
Average Student Performance Level across all PIs for this PLO.		38		100 %
U.BS.CIS.04	Demonstrate a working knowledge of the principles underlying modern operating systems.			
U.BS.CIS.4.PI01	Student scores on OS final exam	7		86 %
Average Student Performance Level across all PIs for this PLO.		7		86 %
U.BS.CIS.05	Demonstrate a working knowledge of modern layered network technologies.			
U.BS.CIS.5.PI01	Individual student percent scores on the networking concepts exam.	17		82 %
Average Student Performance Level across all PIs for this PLO.		17		82 %
U.BS.CIS.06	Demonstrate a working knowledge of web development by designing and creating complex websites.			
U.BS.CIS.6.PI01	Create a relational database schema in SQL that incorporates key, entity integrity, and referential integrity constraints.	10		90 %

U.BS.CIS.6.PI02	Use SQL to create tables and retrieve (SELECT) information from a database.	9		100 %
U.BS.CIS.6.PI03	Embed object-oriented queries into a stand-alone language such as C++ or Java (e.g., SELECT Col.Method() FROM Object).	10		90 %
U.BS.CIS.6.PI04	Design and Implement a simple browser-based web application.	10		90 %
U.BS.CIS.6.PI05	Compare and contrast web programming with general purpose programming.	10		90 %
Average Student Performance Level across all PIs for this PLO.		49		92 %
Average Student Performance Level across all PLOs in this Program.		259		87 %



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Athletic Status: **No records found!**

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U.BS.CIS.CS.02	Demonstrate ability to define, analyze, classify, and use common computer science algorithms and related data structures.			
U.BS.CIS.CS.2.PI01	Composite student percent scores on Computer Algorithms Assessments.	8		88 %
U.BS.CIS.CS.2.PI02	Individual student percentile scores on the ETS MFT Cmptr. Sci. - Algorithms, Theory, & Cmptr. Math sub-test.	4		100 %
Average Student Performance Level across all PIs for this PLO.		12		92 %
U.BS.CIS.CS.04	Effectively prepare written and give oral presentations from research literature in the computer science field including related ethical and moral issues.			
U.BS.CIS.CS.4.PI01	Student's paper effectively integrates topics and subjects within the field.	4		100 %
U.BS.CIS.CS.4.PI02	Student's paper effectively interprets and uses current academic research.	4		100 %
U.BS.CIS.CS.4.PI03	Student's paper effectively addresses ethical and moral issues related to the field.	4		100 %
Average Student Performance Level across all PIs for this PLO.		12		100 %
U.BS.CIS.CS.01	Demonstrate a working knowledge of the structure and design of computer circuitry, including ALU, CPU control, datapath, cache, memory, registers, busses, interrupts, etc.			
U.BS.CIS.CS.1.PI01	Aggregate student percent scores on the Computer Architecture Assessments.	3		100 %
U.BS.CIS.CS.1.PI02	Percentile score on ETS MFT Cmptr. Sci. - Cmptr. Organiza., Arched. & OS sub-test.	4		100 %

Average Student Performance Level across all PIs for this PLO.		7		100 %
U.BS.CIS.CS.3	Demonstrate a working knowledge of the terms, issues, and tools related to computer languages and their design.			
U.BS.CIS.CS.3.PI01	Programs exhibit consistently formatted, readable, documented code.	2		100 %
U.BS.CIS.CS.3.PI02	Programs demonstrate efficient, concise, modular structure.	2		100 %
U.BS.CIS.CS.3.PI03	Programs compile successfully.	2		100 %
U.BS.CIS.CS.3.PI04	Programs run test cases successfully.	2		100 %
U.BS.CIS.CS.3.PI05	Programs perform stated objectives.	2		100 %
Average Student Performance Level across all PIs for this PLO.		10		100 %
Average Student Performance Level across all PLOs in this Program.		41		98 %



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PLO & PI Id	Program Level Learning Outcome	Total Obs.	Cumulative Percent Distribution of Student Performance Levels	% at Mastery
U.BS.CIS.IS.04	Effectively prepare written and give oral presentations from research literature in the information systems field including related ethical and moral issues.			
U.BS.CIS.IS.4.PI01	Student paper effectively integrates topics and subjects within the field.	7		100 %
U.BS.CIS.IS.4.PI02	Student paper effectively interprets and uses current academic research.	7		100 %
U.BS.CIS.IS.4.PI03	Student paper effectively addresses ethical and moral issues related to the field .	6		83 %
Average Student Performance Level across all PIs for this PLO.		20		95 %
U.BS.CIS.IS.02	Demonstrate a working knowledge of the protocols and systems necessary to install, configure, and support a website.			
U.BS.CIS.IS.2.PI01	Configures Microsoft IIS web server.	1		0 %
U.BS.CIS.IS.2.PI02	Configures Apache web server.	1		0 %
U.BS.CIS.IS.2.PI03	Register and domain name and configure authoritative DNS records.	1		0 %
U.BS.CIS.IS.2.PI04	Configure database servers for web server backend (relational databases).	1		0 %
U.BS.CIS.IS.2.PI05	Use cloud technologies to deploy a web site and web application.	1		0 %

Average Student Performance Level across all PIs for this PLO.		5		0 %
U.BS.CIS.IS.03	Demonstrate a working knowledge of database principles and technologies.			
U.BS.CIS.IS.3.PI01	Student percentile score on MSCDA exam.	7		100 %
Average Student Performance Level across all PIs for this PLO.		7		100 %
Average Student Performance Level across all PLOs in this Program.		32		81 %