Academic year 2024-2025

BS in Cybersecurity - BS-CYSC Learning Outcomes

Cybersecurity Fundamentals

Demonstrate foundational and advanced knowledge of cyber infrastructures and cybersecurity principles.

MEASURES	RESULTS	ACTIONS
Basic scripting and programming skills Direct - Exam (Course) UNIX/C++: COSC 3306 Target 80% of the students will achieve a score of 3 or above.	NOT MET 3306 statistics.docx Analysis Spring 2025: Size = 29 Percentage = 62.1% Fall 2024: Size = 83 Percentage = 81.9% For Spring 2025, we revised the prerequisite of this course from none to a B or better grade in COSC 1337. However, there are still new freshmen students and transfer students advised by the advising center to take this course for various reasons. Therefore, the pass rate is lower. We will monitor next year after the	No actions have been added.
Basic Operating System Concepts and Theory Direct - Exam (Course)	advising center is fully updated. No actions were deemed necessary this year. MET 4302 final data spring 2025 Fall 2024.doc	No actions have been added.
Operating Systems: COSC 4302 Target 60% of the students will score 2 out of 5 or above.	Analysis Spring 2025: Size = 20 Percentage = 60% Fall 2024: Size = 25 Percentage = 60% All criteria met their direct assessment targets.	
Basic Networking Technology and Protocols Direct - Exam (Course) Computer Networks: CPSC 4317 Target 60% of the students will score 2.5 out of 5 or above.	MET cpsc 4317 final data Fall 2024.docx Analysis Size = 63 Percentage = 66.7% All criteria met their direct assessment targets.	No actions have been added.

Software; Systems Programming Direct - Exam (Course) Software Engineering: CPSC 4360 Target 80% of the students will score 2.9 out of 5 or above.	NOT MET CPSC 4360 FinalExamFall2024.JPG CPSC 4360 FinalExamSpring2025.JPG Analysis Spring 2025: Size = 39 Percentage = 87.2% Fall 2024: Size = 47 Percentage = 78.7% Spring 2025 met the target. Fall 2024 was very close to meeting the target, so no actions were deemed necessary this year. We will monitor next year.	No actions have been added.
Basic Cybersecurity Concepts and Principles Direct - Assignment Cybersecurity: Systems: CPSC 4363 Target 80% of the students will score 4 out of 5 or above.	MET CPSC 4363 HW1 Data Fall 2024.png CPSC 4363 Quiz1 Data Fall 2024.png Analysis Size = 43 Quiz 1 Percentage = 90.7% Homework 1 Percentage = 81.4% All criteria met their direct assessment targets.	No actions have been added.
IT System Components; Embedded Systems Direct - Exam (Course) Computer Organization: COSC 2325 Target 80% of the students will score 2.5 out of 5 or above.	MET cosc 2325 final data Fall 2024.png cosc 2325 final data Spring 2025.png Analysis Spring 2025: Size = 49 Percentage = 83.7% Fall 2024: Size = 32 Percentage = 84.4% All criteria met their direct assessment targets.	No actions have been added.
Mobile Technologies Direct - Assignment Android Programming: CPSC 4326 Target 80% of the students will score 4 out of 5 or above.	MET stats cpsc 4326 summer 24.jpg Analysis Size = 7 Percentage = 85.7% All criteria met their direct assessment targets.	No actions have been added.

Network and System Administration

Configure and administer secure networks, operating systems, and databases using foundational concepts and best practices.

MEASURES	RESULTS	ACTIONS
Network Secure Admin and Operating System Admin Direct - Exam (Course) Network System Administration: CPSC 4315 Target 80% of the students will score 4 out of 5 or above.	MET cpsc 4315 final data Spring 2025.png Analysis Size = 42 Percentage = 83.3% All criteria met their direct assessment targets.	No actions have been added.
Databases; Database Management Systems Direct - Exam (Course) Database Design: CPSC 4340 Target 70% of the students will score 2 out of 5 or above.	MET CPSC 4340 exam Statistics.pdf Analysis Size = 56 Percentage = 73.2% All criteria met their direct assessment targets.	No actions have been added.

Secure Design and Evaluation

Apply secure coding practices and software analysis techniques to develop, analyze, and test software, web, and mobile applications.

MEASURES	RESULTS	ACTIONS
Secure Programming Practice	MET CPSC 4361 Final Data Fall 2024.png	No actions have been added.
Direct - Exam (Course)	Analysis	
Secure Software Engineering: CPSC 4361		
Target 70% of the students will score 3.5 out of 5 or above.	Size = 19 Percentage = 73.7% All criteria met their direct assessment targets.	

Web Application Security; Software Security Analysis Direct - Assignment Cybersecurity: Systems: CPSC 4363 Target 80% of the students will score 3 out of 5 or above.	MET CPSC 4363 HW3 Data Fall 2024.png CPSC 4363 HW4 Data Fall 2024.png CPSC 4363 Project 1 Data Fall 2024.png CPSC 4363 Project 2 Data Fall 2024.png CPSC 4363 Quiz 7 Data Fall 2024.png Analysis	No actions have been added.
	Size = 42 Projcet 1 Percentage = 100% Homework 3 Percentage = 92.9% Projcet 2 Percentage = 82.1% Quiz 7 Percentage = 88.1% Homework 4 Percentage = 92.9% All criteria met their direct assessment targets.	

Incident Detection and Response

Investigate, detect, and respond to cybersecurity incidents using forensic methods, intrusion detection, and cryptographic techniques.

MEASURES	RESULTS	ACTIONS
Network Defense; Basic Cryptography; Intrusion Detection/Prevention Systems.	MET gc 13108202510 columns 2025-06-11-01 -27-43.xls	No actions have been added.
Indirect - Overall Course Grade	Analysis	
Cybersecurity Networks: COSC 4345		
Target	Overall score of C: 65 Percentage = 85.7% (students in the	
80% of the students will score 3 out of 5 or above.	CYSC program)	

Legal and Industry Standards

Demonstrate ethical reasoning, professional responsibility, and offensive security skills aligned with legal and industry standards.

MEASURES	RESULTS	ACTIONS
Cybersecurity Ethics Direct - Exam (Course)	MET 3325 final data spring 2025.docx Analysis	No actions have been added.
Computer Law/Ethics: COSC 3325 Target 80% of the students will score 4 out of 5 or above.	Size = 100 Percentage = 97% All criteria met their direct assessment targets.	

Cyber Crime Direct - Exam (Course) Cybercrime: CRIJ 4333	MET crij 4333 exam data Spring 2025.png Analysis	No actions have been added.
Target 80% of the students will score 4 out of 5 or above.	Size = 13 Percentage = 100% All criteria met their direct assessment targets.	

Communication and Teamwork

Communicate technical cybersecurity concepts effectively to both technical and non-technical audiences, and work collaboratively in diverse, multidisciplinary teams.

MEASURES	RESULTS	ACTIONS
	MET	No actions have been added.
Group Project - Directed Study	4302 project data spring 2025 Fall 2024.	
Indirect - Focus Group	docx	
Operating Systems: COSC 4302	Analysis	
Target 80% of the students will score 3.5 out of 5 or above.	Spring 2025: Size = 48 Percentage = 85.4%	
	Fall 2024: Size = 74 Percentage = 87.8%	
	All criteria met their direct assessment targets.	
	MET	No actions have been added.
Group Project - Emerging Topics	CPSC 4360 FinalProjectFall2024.JPG	
Indirect - Focus Group	CPSC 4360 FinalProjectSpring2025.JPG	
Software Engineering: CPSC 4360 Target	Analysis	
80% of the students will score 4.75 out of 5 or above.	Spring 2025: Size = 39 Percentage = 89.7%	
	Fall 2024: Size = 47 Percentage = 85.1%	
	All criteria met their direct assessment targets.	
Occur Businest Bassau I	MET	No actions have been added.
Group Project - Research	crij 4333 project data Spring 2025.png	
Indirect - Focus Group	Analysis	
Cybercrime: CRIJ 4333		
Target	Size = 13	

80% of the students will score 4 out of 5 or	Percentage = 100%	
above.	All criteria met their direct assessment targets.	