



Programme Matrix

Faculty	Faculty of Computing and Information Technology
Program	Cybersecurity
Award	Bachelor of Cybersecurity
Credit Units	128 Credit Hours / 68 Units
Academic Year	2025/2026

Level	Semester 1					Semester 2				
	Course Code	Course Name	Pre-requisite	Core/ Elective	Units / Credits	Course Code	Course Name	Pre-requisite	Core/ Elective	Units/ Credits
1	COMP1116	Computer Programming	None	Core	2/4	COMP1220	Computer Security Fundamental	None	Core	2/4
	COMP1120	Introduction to Cybersecurity	IC3	Core	2/4	COMP1221	Introduction To Linear Algebra	None	Core	2/4
	COMP1118	Discrete Mathematics	None	Core	2/3	COMP1213	Computer Networks 1	None	Core	2/4
	UNIR1100	Communication Skills I	None	Core	2/3	COMP1216	Algorithms & Data Structure	None	Core	2/4
	UNIR1001	Oman and Islamic Culture	None	Core	1/2	UNIR1002	Arabic Language Skills	None	Core	1/2
2	UNIR2001	Entrepreneurship	None	Core	2/2	CYSE2201	Digital Forensics and Malware Analysis.	None	Core	2/4
	COMP2120	Network Security	COMP1213	Core	2/4	COMP2215	Operating System and Security	COMP1116	Core	2/4
	CYSE2101	Software Security	COMP1220	Core	2/4	INTR2002	Industrial Training	UNIR2001	Core	0
	COMP2108	Object Oriented Programming	COMP1116	Core	2/4	UNIR2100	Communication Skills II	UNIR1100	Core	2/3
	COMP2111	Systems Analysis and Design	COMP1116	Elective	2/4	COMP2222	Computer Animation	COMP1116	Elective	2/4
	COMP2000	Computer Networks 2	COMP1213	Elective		COMP2220	Web Information Systems	None	Elective	
	COMP2100	Human-Computer Interaction	None	Elective		ARIN2201	Introduction to Business Intelligence (BI)	None	Elective	



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3	COMP3120	Security Architectures and Cryptography	None	Core	2/4	CYSE3221	Cyber Law and Ethics	COMP1220	Core	2/4
	COMP3112	Software Project Management	None	Core	2/4	CYSE3201	Cybersecurity Analytics	None	Core	2/4
	CYSE3101	Cyber Security and Risk Management	COMP1220	Core	2/4	UNIR3100	Communication Skills III	None	Core	2/3
	COMP3107	Distributed-Database Design	None	Elective	2/4	COMP3209	Data Mining	None	Elective	2/4
	COMP3108	Cloud Computing and Web Services	None	Elective		COMP3212	Wireless Sensor and Actuator Networks	COMP1213	Elective	
	COMP3111	GIS & Spatial Databases	None	Elective		COMP3201	Computer Graphics	COMP1116	Elective	
4	COMP4000 A	Specialization Project	None	Core	2/3	COMP4000B	Specialization Project	COMP4000A	Core	2/3
	COMP4120	Ethical Hacking	CYSE3221	Core	2/4	COMP4220	Mobile Applications and Security	None	Core	2/4
	COMP4121	IoT Network Security	COMP1213	Core	2/4	CYSE4202	Advance Information Security	None	Core	2/4
	NEDB3101	Switching and Routing Techniques	COMP2000	Elective	2/4	COMP4209	E-Environment	None	Elective	2/4
	COMP4108	Big Data Analytics	None	Elective		COMP4206	Modelling and Visualization	None	Elective	
	COWE4100	Generative AI: Models and Applications	None	Elective		COMP4210	Mobile & Wireless Networks	None	Elective	