CYBERSECURITY, MASTER OF SCIENCE

Cybersecurity is a multidisciplinary field addressing issues that ensure secure and reliable operations at all levels of interconnected computing and networking systems. The Master of Science in Cybersecurity is designed to train graduate scholars, professionals, entrepreneurs, leaders, and researchers in the advanced knowledge and skills required to fully understand and implement the technologies, tools, management methods, and policy issues related to cybersecurity.

This Master of Science program not only covers multidisciplinary fields related to cybersecurity technology but also examines policy, ethics, and management related to IT security and cyber threats. The program leverages strong partnerships and collaborations both within HBKU and beyond the university. Delivery of the program involves collaborations with HBKU's research institutes, most notably with QCRI.

For more information, click here (https://www.hbku.edu.qa/en/cse/ms-cybersecurity/).

Requirements

Minimum hours required to complete program 33 CH

Code	Title	Hours
Core Courses		
CYSE 610	Applied Cryptography	3
CYSE 630	Computer and Network Security	3
CYSE 640	Security Risk Analysis	3
ICT 601	Research Methods and Ethics	3
Subtotal		12
Elective Courses		
Select four of the	e following:	12
Free elective: program	Students can take one course from any HBKU	
CSE 602	Statistics for Science and Engineering	
CSEG 605	Convex Optimization for Large-Scale and Distributed Systems	
CSEG 710	Advanced Algorithms and Data Structures	
CSEG 780	Principles of Computer System Design	
CYSE 720	Data Privacy	
CYSE 727	Wireless Networks & Security	
CYSE 728	Distributed Systems Security	
CYSE 729	Multimedia Security	
CYSE 744	Network Forensics	
CYSE 745	Computational Forensics	
DSEG 733	Advanced Data Management System	
DSEG 735	Learning from Data	
ICT 632	Advanced Applications of the Web and Internet	t
ICT 690	Special Topics	
ICT 705	Applied Data Analytics	
ICT 706	Independent Studies	
ICT 716	Data Science Tools and Applications	
ICT 720	Cloud Computing	
ICT 725	Quantum Computing	
Subtotal		12
Seminar		
Must pass one ti	me	
ICT 701	Graduate Research Seminars	0

Project Course Title He First Year First Year First Semester CYSE 610 Applied Cryptography CYSE 630 Computer and Network Security ICT 601 Research Methods and Ethics CT 701 Graduate Research Seminars Semester Hours Second Semester CYSE 640 Security Risk Analysis Elective 2 Semester Hours Second Year First Semester ICT 698 Industrial/ Project Semester Hours Total Hours Thesis Course Title He He First Year First Semester CYSE 630 Computer and Network Security ICT 601 Research Methods and Ethics ICT 701 Graduate Research Seminars Second Semester CYSE 640 Semester Hours Semester Hours Semester Hours Total Hours Thesis Course Title He He First Year First Semester CYSE 640 Security Risk Analysis Elective 1 Elective 2 Semester Hours Second Semester CYSE 640 Security Risk Analysis Elective 1 Elective 2 Semester Hours Second Semester CYSE 650 Computer and Network Security ICT 601 Research Methods and Ethics ICT 701 Graduate Research Seminars Semester Hours Second Semester CYSE 640 Security Risk Analysis Elective 1 Elective 2 Semester Hours Second Year First Semester ICT 695 Master's Thesis Hours Elective 3 Elective 4 Semester Hours Second Semester ICT 695 Master's Thesis Hours Semester Hours Semester Hours	esis esis rse t Year t Semester 698 601 701 600 Semester 6640 ctive 1 ctive 2 600 Year t Semester 695 ctive 3 ctive 4 600 Semester
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