Bachelor of Science (Hons) in Computer Science and Cybersecurity

計算機科學及網絡安全（榮譽）理學士

Full Programme Modules

課程科目概覽

Year 1	
Academic English Skills	學術英語技巧
Introduction to Computer Programming	電腦程式導論
IT Professionals in Society	IT 專業人員在社會
Computer Architecture and Organisation	電腦結構與組成
Engineering Math I (discrete mathematics, probability and statistics)	工程數學 I（離散數學、機率與統計）
Engineering Math II (calculus and linear algebra)	工程數學 II（微積分與線性代數）
Data Structure and Algorithms	數據結構與算法
Networking Fundamentals	網絡基礎
Introduction to Database Systems	數據庫導論
Information Security Fundamentals	資訊安全基礎

Year 2	
Technology for Web Development	網站開發技術
Wireless and Mobile Security	無線網絡及移動設備安全
Information Security Management Systems	資訊安全管理系統
Linux System Security	Linux 系統安全
Penetration Testing	滲透測試
Critical Thinking	批判性思維概論
Network Traffic Analysis	網絡流量分析
Digital Forensics	數據取證
Legal and Regulatory Issues in Cybersecurity	網絡安全中的法律與監管
Cybersecurity Practice	網絡安全實踐

Year 3	
Applied Cryptography	應用密碼學
Advanced Programming	進階程式設計
Operating Systems	操作系統
Physics and Human Civilization	物理學與人類文明
Block Chain Technology	區塊鏈技術
Embedded System and Security	嵌入式系統與安全

Software Security	軟件安全
Writing and Presentation Skills for Senior Projects	高級項目的寫作和演示技巧
Advanced Cybersecurity Practice	進階網絡安全實驗

Year 4	
Reverse Engineering	逆向工程
Project Management	項目管理概論
Mobile and IoT Firmware Forensics	移動設備和物聯網韌體取證
Final Year Project (2 terms)	畢業設計（兩個學期）
Entrepreneurship	創業基礎

Other	
Seminar	講座

Elective Modules	
Cloud Computing	雲計算
Information Theory	資訊理論
Social Network Analysis	社交網絡分析
Introduction to IT Audit	資訊系統審計
Artificial Intelligence Fundamentals	人工智能基礎
Data Science	數據科學
Microcontrollers	微控制器概論
Introduction to IIoT and Smart Manufacturing	工業物聯網與智能製造導論