2024 - 2025 Certificate Map
Applied Cybersecurity

School/College: New College of Interdisciplinary Arts and Sciences
Location: Polytechnic, Tempe, West Valley

Program Requirements

The certificate in applied cybersecurity consists of 15 credit hours of coursework, of which a minimum of 12 hours must be upper division. Six credit hours must be unique and not count towards a student's undergraduate degree. All courses used to satisfy requirements for the certificate must be passed with a "C" (2.00) or better. Students must select courses from more than one subject to fulfill certificate requirements.

Students must take CSE 365 or IFT 202 and one course each from groups A, B or C, and D; then one course from Group E for a total of five courses or 15 credit hours. It is recommended that the Group A course be taken concurrently with CSE 365 or IFT 202. The Group B or C and D courses must be taken after successful completion of CSE 365 or IFT 202. Group A through D courses must be completed successfully before enrolling in the Group E required course.

Required Course -- 3 credit hours

CSE 365: Information Assurance or IFT 202: Foundations of Information and Computer System Security (3)

Group A - Security Operations and Risk Management -- 3 credit hours

ACO 401 / CIS 401: Managing Cyber Risks in Enterprise Business Processes (3)
ACO 461: Security Operations (3)
IFT 381: Information System Security (3)

Group B - Systems and Network Security OR Group C - Forensics/Cyber Crime -- 3 credit hours

Group B - Systems and Network Security:
ACO 431: Network Security (3)
CSE 466: Computer Systems Security (3)
CSE 468: Computer Network Security (3)
IFT 458: Middleware Programming and Database Security (3)
IFT 475: Security Analysis (3)

Group C - Forensics/Cyber Crime:

ACO 331: Network Forensics Analysis (3)

CSE 469: Computer and Network Forensics (3)

FOR 350: Computer Forensics (3)

IFT 482: Network Forensics (3)

Group D - Policy -- 3 credit hours

ACO 351: Governance, Risk and Compliance (3)

ACO 402 / CIS 402: Privacy, Ethics and Compliance Issues (3)

CSE 467: Data and Information Security (3)

IFT 483: Security Compliance for Information Technology (3)

Group E - Project -- 3 credit hours

Students may take more than one semester of the Applied Project but only three credit hours will count towards the certificate.

ACO 484: Internship or ACO 499: Individualized Instruction (3)

CIS 440: Capstone in Information Systems (L) (3)

CSE 485: Computer Science Capstone Project I (L) or CSE 486: Computer Science Capstone Project II (L) (3)

IFT 401: Information Technology Capstone (3)

Prerequisite courses may be needed in order to complete the requirements of this certificate.