

Course Title	Information Security
Course Code	CC-413
Credit Hours	3
Category	Computing Core
Prerequisite	None
Co-Requisite	None
Follow-up	None
Course Description	Information security foundations, security design principles; security mechanisms, symmetric and asymmetric cryptography, encryption, hash functions, digital signatures, key management, authentication, and access control; software security, vulnerabilities and protections, malware, database security; network security, firewalls, intrusion detection; security policies, policy formation, and enforcement, risk assessment, cybercrime, law and ethics in information security, privacy and anonymity of data.
Text Book(s)	M. Whitman and H. Mattord, Principles of Information Security, 6th edition.
Reference Material	William Stallings, Computer Security: Principles and Practice, 3rd edition. Dieter Gollmann, Computer Security, 3rd edition. William Easttom, Computer Security Fundamentals, 3rd edition.