

CSCI-653: Cybersecurity I

This course will provide an intensive overview of the field of cryptography, providing a historical perspective on early systems, building to the number theoretic foundations of modern day cryptosystems. Students will study how cryptosystems are designed, to match cryptosystems to the needs of an application, and basic cryptanalysis. Real life breaches of common cryptosystems will be presented to better convey the dangers that lurk in cryptosystem design and in the design of systems that rely on cryptography.

Credits: 3

Program: Computer Science