

Basics of information security and privacy

- security policies; access control
- cryptography
- key distribution and management
- authentication
- secret sharing
- commitment and freshness of information
- vulnerability analysis
- advanced protocols such as zero knowledge proof and secure multi-party computation

State-of-the-art topics

- data privacy
- cloud security
- network security
- web security
- IoT and CPS security
- Crypto Currency and Block Chain

Grading

Midterm Exam	20%
Homework	20%
Project	20%
Final Exam	30%
Class Participation	10%