

I. Applied Cryptography

- Classical crypto systems
- Modern crypto systems : symmetric vs asymmetric
- Hash functions and digital signatures
- Cryptography protocols for authentication and encryption

2. Network Security

Vulnerabilities and defense for the network stack

	Protocol	Secure Layer
Application	DNS	DNSsec
Transport	TCP	TLS (a.k.a. SSL)
Internet	IP	IPSec
Link	802.11	WPA3