

Security

Trojan Horse (login emulator)
Trap Door (dmr login in UNIX)
Logic Bomb (Trojan horse +)
Stack and Buffer overflow
Viruses
Spyware and adware

Network threats
Worms
Port Scanning
Denial of Service

Encryption
Public-Key/Private-Key
Secure communications
Digital signatures

Networking

Network devices and network topologies

The OSI standard
Physical Layer (RS-232)
Data-Link Layer (HDLC)
Network Layer (Packets, virtual circuits)
Transport Layer (Messages not packets)
Session Layer (Logins)
Presentation Layer (Changing byte order or character encoding)
Application Layer (http, ftp, UNIX commands)

TCP/IP
Ports
Transport and network protocols

OS Configuration:
Protocol determination
Port determination
Application interface