Final Exam (COEN146) – Winter 2017

- Thursday, March 23rd, 2017
  - 1:30 PM – 4:30 PM
  - EC326
- 28 questions (Multiple Choice + T/F + Short Essay)
  - Comprehensive
  - 5 to 20 points each
  - Total of 200 points for 100%
- Final Exam Study Guide Slides
  - Will be posted on Camino
  - Under "*Final Exam, Thursday March 23rd – 1:30 pm to 4:30 pm (EC326)*" Tab in Modules

Final Exam Study Guide (Winter 2017)

- Network Architectures
  1. OSI
  2. TCP/IP

- Network Topologies
  1. Bus
  2. Star
  3. Ring
  4. Point-to-point

Final Exam Study Guide (Winter 2017)

- Local Area Network
  1. Extending LANs
  2. Spanning tree algorithm
  3. Ethernet
  4. MAC addresses
- Network Layer
  1. Internet Protocol (IP)
  2. Classes of IP addresses/sunbet masks
  3. Classless notation
  4. ICMP protocol
  5. IPv6 format
  6. Routing protocols
     1. Distance vector
     2. Link state

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- Application Layer Protocols
  1. FTP
  2. Telnet
  3. SMTP
  4. DNS
  5. BGP
- Devices used at each layer
  1. Hub
  2. Bridge
  3. Router
  4. Repeater

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- **Transport layer**
  1. UDP
     1. Header fields
  2. TCP
     1. Header fields
     2. Three-way handshaking
     3. Elements of congestion control
     4. Congestion avoidance techniques
        1. Router centric
        2. Host centric

- **Network Security**
  1. Asymmetric/Symmetric encryption
  2. ~~Certificates~~
  3. Firewalls