Digital Communications


Personnel

- Instructor
  - Pi-Chung Wang, pcwang@cs.nchu.edu.tw, 710
    - office hours
      - Wednesday 9:30-12:00 or by appointment

- Teaching assistants
  - TBD (721)
  - office hours
    - Check the course web page

Textbook

- Textbook
  - Computer Networking: A Top-Down Approach Featuring the Internet, 4/e by Kurose and Ross (歐亞書局代理)

- Reference books

- Resources

What Are the Goals of This Course?

- Learn networking principles
- See how the principles apply to the Internet
  - its philosophy, architecture, applications, protocols, and challenges
What Will We Cover?

- Networking architecture and design principles
- Applications
  - application paradigms
  - HTTP, Email, DNS, P2P
- Transport
  - transport services
  - reliability; distributed resource allocation
  - transport protocols: TCP/UDP

What Will We Cover?

- Network
  - network services
  - distributed, asynchronous, autonomous routing algorithms; scalable router design
  - IP/IPv6; mobile IP; cellular networks
- Link Layer and Local Area Networks
  - Multiple Access Protocols
  - Hub and Switches
- Wireless and Mobile Networks
  - WiFi
  - Cellular

What Do You Need To Do?

- Your workload
  - Homework assignments (25%)
  - Quiz (25%)
  - Midterm (25%)
  - Finalterm (25%)

Grading

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More important is what you realize/learn than the grades!!