

CS551 Computer Communications

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<http://merlot.usc.edu/cs551-f12>



Course Topics (Tentative)

- ➔ Introduction
- ➔ Design principles
- ➔ Unicast routing
- ➔ Inter-domain routing
- ➔ TCP and congestion
- ➔ Peer-to-peer systems
- ➔ Integrated and differentiated services
- ➔ Measurements
- ➔ Wireless systems
- ➔ Multicast routing
- ➔ Tentative topics
 - = Topology modeling
 - = Traffic modeling
 - = Security
 - = Web performance and caching
 - = Current topics



Focus of the Class

- ⇒ ***Protocols* and *mechanisms***
 - ⇒ We will not deal with how bits move in physical media - you did this in your undergrad class

- ⇒ We will deal with:
 - ⇒ Protocol rules and algorithms
 - ⇒ Investigate mechanism tradeoffs
 - ⇒ Why this way and not another?

