

# Lecture 3: Core Internet Concepts

Reading: 1-1.3.3, 1.5 (overview)  
2.2-2.2.3, 2.7-2.7.1 (http and socket programming)

HTTP - hypertext transfer protocol  
transfer files payload

(transport layer - transport protocol) - multiplexing  
TCP - transmission control protocol  
ordering, delivery, congestion control  
multiplexing tcph, payload

(network layer)  
IP - Internet Protocol  
delivers packets to specified address  
no guarantees iph, tcph, payload

(link layer)  
WiFi - IEEE 802.11g / Ethernet  
multiple access, local addressing mach, iph, tcph, payload

(physical layer)  
modulating bits onto a medium mach, iph, tcph, payload

packet switching

separation of concerns / layering principle

end-to-end principle