

CPTR 456 - Computer Networks
Winter 2021 Schedule - revised

| Date | | Topic | Reading | HW due |
|-----------|----------|--|-----------------|--------|
| | | | (quiz possible) | |
| W | Jan. 6 | Introduction. What is the internet? | 1.1 | |
| F | 8 | The network edge and core | 1.2-1.3 | |
| M | 11 | Protocol layers, security, service models | 1.4-1.8 | |
| W | 13 | Principles of network applications | 2.1 | HW1 |
| F | 15 | The Web and HTTP | 2.2 | |
| M | 18 | SMTP, DNS | 2.3-2.4 | |
| W | 20 | Review and catch-up | | HW2 |
| F | 22 | P2P Applications, video streaming | 2.5, 2.6, 2.8 | |
| M | 25 | Transport layer | 3.1-3.3 | |
| W | 27 | Principles of reliable data transfer | 3.4 | HW3 |
| F | 29 | Connection-oriented transport: TCP | 3.5 | |
| M | Feb. 1 | Congestion control | 3.6-3.8 | |
| W | 3 | Review and catch-up | | HW4 |
| F | 5 | Midterm | | |
| M | 8 | The network layer: Data plane | 4.1-4.2 | |
| W | 10 | Inside a Router | 4.2 | HW5 |
| F | 12 | Internet Protocol (IPV4) | 4.3 | |
| M | 15 | IPV6 | 4.3 | |
| W | 17 | Generalized forwarding and SDM | 4.4 | HW6 |
| F | 19 | The network layer; Routing | 5.1-5.2 | |
| M | 22 | Routing - DV algorithm; autonomous systems | 5.2-5.3 | |
| W | 24 | Routing among ISPs | 5.4 | HW7 |
| F | 26 | The SDN control plane, ICMP | 5.5-5.8 | |
| M | March 1 | The link layer and LANS | 6.1-6.3 | |
| W | 3 | Switched local area networks | 6.4 | HW8 |
| F | 5 | Virtual local area networks | 6.4-6.5 | |
| M | 8 | Data Center networking | 6.6-6.8 | |
| W | 10 | Physical layer | | HW9 |
| F | 12 | Review and catch-up | | |
| Wednesday | March 17 | Final Exam Time | 8:00 - 9:50am | HW10 |