

**CSC 275. Advanced Data Communication Systems.** Fundamental concepts, principles and issues of data communication systems. The ISO/OSI reference model is used as a vehicle for discussion and emphasizes lower layer of the model. Specific topics include: motivation and objectives, layered architectures, physical layer principles and protocols, data link and medium access control principles and protocols, circuit, packet and cell switching, local area network design principles and performance comparisons, high speed networking, introduction to wide area network architectures. Typical examples and standards are cited for point-to-point, satellite, packet radio and local area networks. **Prerequisite:** CSC 138 or CPE 138 or CSC 205. Not offered every semester. 3 units.