NET 3720 is designed to provide students with a better understanding of how wireless networking and fiber based networks are used in business today. Also we will discuss briefly other forms of transport commonly used. There will also be time for students to configure a wireless system for use in a LAN type environment. Invitations for guest speakers have been sent and will happen based on their availability and schedule.

To demonstrate their understanding of the concepts taught in class there will be a group project requiring the students to design a wireless network for a business that will include the need for fiber to connect the network over distances greater than what twisted pair copper can cover. There will also be a test on terminology and standards used both currently and historically.

The stated outcomes from this class are:

1. Better understanding of structured cable designs and types
2. Understand the various fiber options in use today
3. How to select and deploy the right fiber option based on the needs of the network
4. Be aware of the requirements guidelines for a proper fiber installation
5. Understand carrier based wireless and it's possibilities for use in business
6. Know what differentiates carrier based wireless to enable better selection processes of carriers
7. Understand basics of wireless LAN network
8. Design a LAN based wireless network including a wireless controller and discuss deployment requirements
9. Work as a team to complete these outcomes.

Grading will be split evenly between 1) a terminology test, 2) successfully designing a WIFI installation exercise on equipment provided in class, and 3) group report on designing a LAN based wireless solution. The schedule for each of these events will be discussed in class and based on equipment availability and guest presenter schedules.

The instructor will be available before and after class each week as well as by appointment as needed. You can reach him via email at lwelch@weber.edu or message him on Canvas.

Enjoy the class, it is easier to learn that way.

Accommodations for Disabilities

Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 221 in the Student services Center at the Davis Campus. SSD can arrange to provide course materials (including syllabus) in alternative formats if necessary. SSD can also be reached at 801-395-3524 or online at www.weber.edu/ssd (Links to an external site.)Links to an external site..

Academic Cheating Policy

School of Computing policy dictates that any verifiable evidence of student academic cheating, as defined and determined by the instructor, will result in: 1) an automatic

failing grade for the class and 2) a report to the Dean of Students that will include the student's name and description of the dishonest conduct.

Course Fee Statement

Course fees are designed to cover the cost of the lab equipment maintenance and replacement including desktop and server computer systems and software: consumable materials and supplies: and support for Lab aides, student tutors, and online instructional resources.