**WEBER STATE UNIVERSITY**

**NET 3710 – Network Technology Systems Management**

**COURSE SYLLABUS - FALL SEMESTER 2017**

**LOCATION:** WSU Davis Campus Room 311

**INSTRUCTOR:** Darin Myers – darinmyers@weber.edu

**PHONE**: Office: 801-220-4042 Cell: 801-332-0099

**Date/Time:** Thursdays - 4:30pm

**Website:** [**http://faculty.weber.edu/dmyers/**](http://faculty.weber.edu/dmyers/) **(download lecture notes from this site)**

**TEXT:** **THE ESSENTIAL GUIDE TO TELECOMMUNICATIONS**

 **Fifth Edition**, By Annabel Z. Dodd

**OBJECTIVE:** Students will demonstrate knowledge of the concepts, components, and architecture of: public carrier and private IP networks and switching systems, optical and electrical transport networks, regulatory environments, and workings of basic TDM and IP transmission systems. Students will also demonstrate knowledge of cellular/mobile/fixed wireless technologies including network elements, routing, packet delivery, handoff technology, and the evolution of generations of wireless technologies and systsems. Appreciate the management concepts involved in maintaining and operating a switching/transport network and understand future directions of switching systems and telecommunications networks.

**WEEK DATE SUBJECT ASSIGNMENT**

 1 Aug 31 Class Overview/Chp 3 – Industry Overview Read

 \*2 Sep 7 Chp 4 – Carrier Networks Chp. 3 Quiz

 \*3 Sep 14 Signaling Notes Chp. 4 Quiz

 **\***4 Sep 21 PCM Notes Signaling Quiz

 \*5 Sep 28 WAN Data Networks Notes PCM Quiz

 \*6 Oct 5 Chp 2 Lecture – Ethernet/IP/VoIP WAN Quiz

 \*7 Oct 12 Switching/Routing – Cisco 3 Tiers Chp. 2 Quiz

 8 Oct 19 Verizon site tour None

 9 Oct 26 Chp. 5 Broadband/WAN Lecture None

\*10 Nov 2 Chp. 6/Internet Lecture Chp 5 Quiz

\*11 Nov 9 Chp. 7 Mobile Networks Lecture/SIP Lecture Chp 6 Quiz

\*12 Nov 16 Transport Systems Chp 7 Quiz

13 Nov 23 No Class - Thanksgiving None

14 Nov 30 Network Management None

15 Dec 7 Review for Final None

16 Dec 14 Final Exam None

**\*QUIZZES:** Will be given throughout the semester and will be based on the previous week's lecture, readings, and assignments. There will be no midterm examination. The final examination will be as scheduled for the class.

**ADA:** Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Services Center. SSD can also arrange to provide course materials (including the syllabus) in alternative formats if necessary.

**Academic Honesty:** NMT 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 a description of the student's dishonest conduct.

**Campus Closure:** In the event of the campus being closed please check the Canvas portal for course instruction.

**Course Fees:** Course fees in the Network Management Technology major are designed to cover the costs of equipment maintenance and replacement, software, consumable materials and supplies, instructional resources, and certification.

**Grading Scale:**

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| --- | --- | --- |
| 95% - 100 % =A | 90% -  94 % =A- |  |
| 87% - 89% =B+ | 83% - 86% = B | 80% - 82% = B-     |
| 77% - 79% =C+ | 73% - 76% = C | 70% - 72% = C- |
| 67% - 69% =D+ | 63% - 66% = D | 60% - 62% = D- |