

~~14-30~~ 15-14
~~13-205~~
 LSC: AP-4/10/14
 W- 4/2016

REVISION APPROVAL COVER SHEET FOR CONTINUATION OF W-DESIGNATION

TYPE II DEPARTMENT COMMITMENT

Professors: Scott Mensch
 Department Technology Support & Training
 Email: wilkie@iup.edu (chair)
 Course **BTST 310 – Telecommunications**

Please provide answers to these questions on the next page:


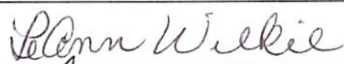
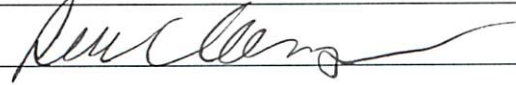
1. Include the most recent syllabus for the Type II course.

Attached is a copy of the most recent syllabus for BTST 310 which mirrors the syllabus of record.

2. Include a new “Statement Concerning Departmental Responsibility”.

See attached

The faculty who teaches BTST 310 is certified and completed the workshops to teach writing intensive courses.

Approvals:	Signatures	Date
Professors/Instructors	Scot Mensch 	3-13-14
Department Chair		3-24-14
College Dean		3-24-14
Director of Liberal Studies		
UWUCC Co-chair(s)		

Received

APR 7 2014

Liberal Studies

BTST 310 Telecommunications

Dr. Scott Mensch

Lecture: TBA

s.mensch@iup.edu

LOCATION: Eberly 221e

Phone: 724- 357-5733

3 class hours

0 lab hours

3 credits

(3c – 0l – 3h)

(3c-0l-3cr)

Prerequisite: BTED/COSC/IFMG 101

I. Course Description

Provides an introduction to telecommunications in the business environment. Includes an overview of electronic communication systems including a conceptual framework as well as hands-on experience. Concepts of telecommunications technology, applications, and management as they apply to business and industry will be addressed.

II. Course Objectives

Upon successful completion of this course, students will be able to:

1. Discuss the evolution of telecommunications and its future implications.
2. Analyze transmission and reception processes in telecommunications.
3. List hardware and software used in a data communications system.
4. Analyze network configurations and their management.
5. State the role of the public telephone system and other public carriers.
6. Discuss various trends and show evidence of a conceptual understanding of emerging technologies.
7. Show evidence of a synthetic understanding of the impact of various societal and ethical issues surrounding telecommunications.
8. Improve and enhance writing ability according to set standards.

III. Course Outline

- | | | |
|----|------------------------------------------------|---------|
| A. | Telecommunications Overview | 3 hours |
| | 1. Evolution | |
| | 2. Technologies | |
| | 3. Major issues in the industry | |
| B. | Transmission and Reception Fundamentals | 4 hours |
| | 1. Voice transmission principles | |
| | 2. Analog/digital signal conversion | |
| | 3. Transmission rates, channels, modes | |
| | 4. Transmission media and impairments | |
| | 5. Codes, circuits, standards, and protocols | |
| C. | Data Communications Hardware Software/Networks | 4 hours |

1. Hardware
2. Software
3. Conducted/radiated media

Exam One Exam will feature objective questions as well as a writing portion 1 hour

D. Network Configurations and Management 9 hours

1. Technology and standards
2. Classification
3. LANs, MANs, and WANs
4. Research writing project

E. Telephone Systems 2 hours

1. Telephone components
2. Telecommunications network
3. Local, long-distance carriers and services
4. Private Branch Exchanges (PBX)
5. Centrex services

F. Trends/Emerging Technologies 12 hours

1. Microwave and Satellite Communications
2. Electronic Mail
3. Teleconferencing
4. Wireless Communications

G. Ethics and Support 7 hours

1. Intellectual property
2. ADA
3. Alternatives

Final Activity During Final Exam Week 2 hours
 Total hours: 44 hours

IV. Evaluation Methods

The final grade will be determined as follows:

Two exams	40%	Each exam will consist of multiple choice questions
Homework	20%	Two research articles will be completed on the assigned weeks. Responses will be a minimum of six pages, but no more than seven pages.
Project and Presentation:	25% 5%	A (15 page) research project will involve a case study and analysis of an emerging

		technology. A live presentation will be given during finals week
Participation:	10%	Responsiveness in class and online discussions

The standard university grading scale will be used:

Grade	Percentage
A	100 to 90%
B	89 to 80%
C	79 to 70%
D	69 to 60%
F	59% and below

V. Attendance Policy

LATE WORK WILL NOT BE ACCEPTED FOR ANY REASON!

VI. Required Texts and Materials

Panko, R. & Panko, J. (2011). *Business Data Network and Telecommunications*, Pearson

To complete assignments, students must maintain and utilize a web-based e-mail account and have electronic storage access.

VII. Bibliography

White, C. (2009). *Data Communications and Computer Networks: A Business User's*

Approach, 5th edition Course Technology.

Up to 9% of the class may be delivered online. If a class is going to be online we will not formally meet during the assigned class time. You will be given one weeks notice in if a class time is placed online.

Statement of Departmental Responsibility

Writing Intensive: BTST 310 - Telecommunications

The Technology Support and Training Department is committed to offering BTST 310 – Telecommunications as a “W” course. The Department will assume responsibility for ensuring that any faculty member assigned to teach this course abides by the syllabus, uses the same or equivalent writing assignments, and is familiar with current theory and practice in writing-across-the-curriculum.

The only faculty member who currently teaches the course is Scott Mensch. Dr. Mensch has not completed the Writing Workshop but intends to do so by the end of the 2013-14 academic year. Any future faculty member assigned to teach the course who has not completed the Writing Workshop will be strongly encouraged to do so by the department chairperson.



LeAnn Wilkie, Chair

Technology Support & Training Department