

UNIVERSITY of MARYLAND
UNIVERSITY COLLEGE - *Asian Division*

IFSM 450 – Telecommunication Systems in Management

Credits: 3

Monday and Wednesday 19:25 – 22:00, Sasebo NB, Japan

Prerequisites: IFSM300 and IFSM310

Instructor: Assoc. Professor Robert Laurie

Email: boblaurie@yahoo.com

Web Site: <http://www.islandman.org>

Textbook: *Telecommunications for Managers*, 5th Ed.,
by Stanford H. Rowe, 2001, ISBN: 0130284866

Description:

An analysis of technical and managerial perspectives on basic concepts and applications in telecommunication systems. An overview of data communication protocols and standards; local area networks, wide area networks, and internetworks; and trends in telecommunications is provided. The implications of the regulatory environment and communications standards on transmission of voice, data, and image are examined. Students may receive credit for only one of the following courses: CMIS 370, CMSC 370, or IFSM 450.

Objectives:

1. Demonstrate a high-level understanding of terminology associated with business-oriented telecommunications (competence in information technology)
2. Discuss the historical and present relationship between telecommunication and information systems
3. Identify and discuss the business and organizational issues involving telecommunications technology and management (competence in information technology)
4. Use financial formulas to develop criteria and costs for telecommunications projects (competence in information technology)
5. Discuss the legal and ethical issues involved in telecommunications projects (civic responsibility)
6. Demonstrate an understanding of the implications of the global regulatory environment and communications standards on transmission of voice, data, and image (international perspective)
7. Research and recommend specific telecommunications application appropriate for the end user (information literacy)
8. Recommend specific network topologies and configurations appropriate for a firm (competence in information technology)

Grades:

The grade in the course will be based on 3 exams and several projects:

Items	Scores	Percent
Exam 1	100	20%
Final Exam	150	30%
Projects	150	30%
Total	400	100%

Grade	Scores	Percent
A	400 to 360	100.0 to 90.0%
B	359 to 320	89.9 to 80.0%
C	319 to 280	79.9 to 70.0%
D	279 to 240	69.9 to 60.0%
F	< 240	Less then 60%

Exams:

Exams 1 will cover topics discussed in that portion of the class. The final exam will be comprehensive and cover topics discussed throughout the course. I encourage students to study together for exams and will not curve scores.

Only students with officially excused absences will be able to make up the exams, others will receive a grade of zero. You must contact me via email, for me to authorize a makeup exam time prior to the scheduled exam time. You need to provide me with documentation verifying the excused absence. Failure to comply with these requirements will result in a score of zero on the exam.

There will be no extra credit awarded in the course, so do your best on the given assignments.

Projects:

Project assignments of various point values will be given throughout the term. Completed project reports must be submitted on the due dates. Late assignments will be reduced 25% of the total point value for each class period late. No projects will be accepted after the final exam time. Microsoft Access 2000 will be used for all projects.

Grading will be 80% objective (results, explanations, conclusions) and 20% subjective (neatness, clarity, conciseness, extra work). A project report that minimally meets all specifications will receive a score of 80% of the total points. If any portion of a project is plagiarized, the entire project will receive a score of zero.

Attendance:

Class attendance is mandatory. If you miss a class meeting, it remains your responsibility to obtain information concerning the material covered and upcoming assignments. Excessive absences may result in your being assigned a grade of *F(n)!* *Failure due to non-attendance.*

This syllabus and schedule are subject to change at the discretion of the instructor. Announcements will be made in class concerning such changes. You are responsible for any announcements made in your absence.

Cell phones/pagers and similar devices are not allowed in the classroom unless a special need arises and the student receives approval from the instructor.

IFSM 450 Course Schedule (Tentative *)

Date:	Topics:	Read Before Class:
Week 1	Introduction to Telecommunications. Influences on Telecommunications in the Enterprise.	Chapter 1 Chapter 2
Week 2	Telecommunications Architectures and Standards. Data Communications Applications and Voice Communications.	Chapter 3 Chapter 4 and 5
Week 3	Data Terminals and Personal Computers Data Coding.	Chapter 6 Chapter 7
Week 4	Data Transmission and Modems and Communications Circuits. MIDTERM EXAM – Last Class	Chapter 8 and 9
Week 5	Data Link Control Procedures. Network Fundamentals.	Chapter 10 Chapter 11
Week 6	Local Area Networks. Network Management and Operations.	Chapter 12 Chapter 13
Week 7	Network Design and Implementation. WAN and Internetworking Concepts	Chapter 14 Supplemental
Week 8	Internetworking Routers FINAL EXAM – Last Class	Supplemental

* This syllabus is tentative and is subject to change.