

COURSE SYLLABUS

Course Number: COMP6380/6386

Course Title: PERSONAL AREA NETWORKS

Credit Hours: 3

Prerequisites: COMP4320 or ELEC6220

Corequisite: none

I. Course Content/Objectives:

1. Objectives: This is a course on the concepts, architecture, design, and performance evaluation of personal area networks protocols and applications. At the conclusion of this course the student will have an understanding of these principles and be capable of implementing network protocols and applications for personal pervasive systems..

2. Tentative Schedule and Outline of Course Content.

Wireless Information devices and wearable computers: 2 classes

PAN applications: 2 classes

PAN issues and challenges: 2 classes

Wireless PAN technology: 3 classes

PAN models and architectures: 3 classes

Wireless Technologies: 3 classes

Wireless LANs: 3 classes

IEEE 802.15, 805.11 standards: 2 classes

Bluetooth technology: 2 classes

Wireless access protocol (WAP): 2 classes

HomeRF protocol: 2 classes

Ad-hoc network protocols: 5 classes

Mobile and wireless networking: 4 classes

PAN middlewares and agent architecture: 4 classes

Personal information system: 3 classes

Tests: 2 classes

3. Textbook or assigned readings

The reading list consists of classic and recent journal and conference papers on personal area networks and applications

II. Grading and Evaluation Procedures:

Presentation	10 % of grade
Mid quarter Exam	15 % of grade
Reports (2)	10 % of grade each
Term Programming Project	30 % of grade
Final Exam	25 % of grade

Grading scale:

90-100	A
80-89	B
70-79	C
60-69	D
59 and lower	F

III. Statement related to policies on unannounced quizzes and class attendance and participation.

There will be no unannounced quizzes and attendance will not affect the grade.

Accommodation Statement: Students who need special accommodations should make an appointment to discuss the Accommodation Memo during my office hours as soon as possible. If scheduled office hours conflict with classes, please arrange an alternate appointment time. If you do not have an Accommodation Memo, but need special accommodations, contact the Program for Students with Disabilities in 1244 Haley Center (844-2096 V/TTY).

Justification for Graduate Credit: This course requires knowledge of data networks, which are not covered until the senior year of undergraduate studies in the required course COMP4320 or ELEC6220.

11/7/01