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