Ubiquitous computing is a post-desktop model of human-computer interaction in which information is processed by everyday objects and activities. Following this model, pervasive computing deals with the use of small computing devices embedded in an everyday environment. This course builds upon the fundamental knowledge acquired in a variety of other courses, including COMP3010 Distributed Computing, COMP3020 Human Computer Interaction 1, and COMP3720 Computer Networks 1. In depth discussion of the principles of mobile computing, including mobility management, context-aware computing, ad hoc and wireless sensor networks, smart devices, environments, and interactions, ubiquitous communication and will be covered.

**Prerequisites**
C or better in COMP3010, COMP3020, and COMP3720.

**Course Evaluation**
There will be three assignments, a term project and a term test (no final examination). At least two assignment will be marked and returned before the voluntary withdrawal deadline (March 19, 2010). The mark breakdown is as follows:

- 3 Assignments 45%
- Term Project 30%
- Term Test 25%
- In-class Participation 3%

**Course Outline**
- Basics
- Architectures for Pervasive Computing
- Context-aware Computing
- Applications
- Smart Devices and Services
- Tagging and Sensing
- Data Dissemination and Device Management
- Ubiquitous Communication and Enabling Technologies
- Challenges and Outlook

**Recommended Textbooks**

Other References


Registration Advisory

It is your responsibility to insure that you are entitled to be registered in this course. This means that you have:

- the appropriate prerequisites, as noted in the calendar description, or have permission from the instructor to waive these prerequisites;
- not previously taken, or are concurrently registered in, this course and another that has been identified as “not to be held with” in the course description.

The registration system may have allowed you to register in this course, but it is your responsibility to check. If you are not entitled to be in this course, you will be withdrawn, or the course may not be used in your degree program. There will be no fee adjustment. This is not appealable. Please be sure to read the course description for this and every course in which you are registered.

Academic Dishonesty

Plagiarism on the assignments or any form of cheating during the examination is subject to serious academic penalty. If you are not sure what constitutes academic dishonesty consult section 7 of the general calendar academic regulations. We now have specific Faculty of Science regulations that you must follow. Please check the course web page for details. A signed honesty declaration must be included with an assignment for its mark to be counted towards your final grade. Note that this is a new Faculty of Science declaration do not use the old Computer Science honesty declaration.