University of Tasmania  
School of Computing  
KXA452 Advanced Mobile & Ubiquitous Computing  
Unit Outline  
June 23rd to July 13th, 2003

Prerequisites  
None

Corequisites  
None

Unit Weight  
12.5

Unit Coordinator  
Prof. Arthur Sale  
Room 463  
(03) 6226 1792  
Arthur.Sale@utas.edu.au

Scheduled Teaching Sessions  
Campuses:  
- Launceston  
- Hobart  

Lectures: 3 hr/day  
Seminars: 1 hr/day

The Unit Timetable can be accessed from the Study Resources section of the School website. ([http://www.comp.utas.edu.au/app/studyresources.jsp](http://www.comp.utas.edu.au/app/studyresources.jsp)).

The unit is delivered via video-conference, and runs as an intensive winter school 09:00 - 17:00 Monday to Friday, 23 June to 4 July 2003. Three lectures (sometimes run as seminars) are given in the morning starting at 09:00 sharp finishing at 12:30. The first part of the afternoons is devoted to self-study on topics arising from the lectures using School resources, terminating in a plenary discussion seminar on the self-study at 16:00.

Unit Website  
The unit website is accessed from http://webct.utas.edu.au:8900. You will need to use your email pop account username and password to log on to the WebCT system. Once authenticated by the system your personalised MyWebCT area will be displayed. It contains links to the websites that you have permission to access - including the website for this unit.

This unit is Web Supplemented. This means that the use of the Web is optional for this unit. The unit website contains unit information and resources. The unit website will contain unit information and lecture notes for each session, mounted each day.

If you are not able to access the unit website, please contact the University IT help desk:

- Level 2 Morris Miller Library, Sandy Bay Campus; Level 0 Building A, Newnham Campus.  
- Telephone: 6226 1818  
- Fax: 6226 7669  
- Email: HelpDesk@utas.edu.au

Prescribed Text  
None

Provider  
School of Computing - Faculty of Science, Engineering, and Technology. [http://www.comp.utas.edu.au](http://www.comp.utas.edu.au)

Useful University Web Links  
Information and Resources for 'Current Students' are available on the university website at: [http://www.utas.edu.au/students/](http://www.utas.edu.au/students/) It includes useful links such as:


OVERVIEW

Introduction  
This unit involves an intensive study of computers used in mobile applications, and computers embedded
in ubiquitous products. As such, it spans a wide range of topics through the networking of mobile
device, satellite communications, mobile phones and mobile phone systems, the human interface, speech
technology, wearable computers, power sources, safety, and privacy.

Objectives

On successful completion of this unit, you will be able to:

1. understand the technology underlying mobile and ubiquitous computer applications
2. have assessed the state-of-the-art in this field
3. have completed an in-depth study in one aspect of the field.

Unit Content

For more information see the section titled 'Content' on the unit website.

Generic Skills

The university has defined a set of generic graduate attributes expected in its graduates. [External Link] Your course is
designed to enable you to develop generic skills that are valued in, and expected of, graduates. These are
skills that you will need to develop over time. Hence you are encouraged to look for opportunities, as you
study each unit, to reflect on and improve these skills.

LEARNING AND TEACHING

Approach to Learning

You are expected to spend about 130 hrs studying in this unit - this includes attendance at scheduled
teaching sessions. (For a 13 week semester this is, on average, 10 hr/wk.) This is the amount of study
time that the 'typical' student will need to reach the level of competence and understanding required to fulfil
the unit objectives.

You are expected to:

- attend all scheduled lectures and seminars, unless otherwise notified by the unit coordinator
- prepare for, and actively participate in lectures and seminars
- complete the assigned learning tasks
- review what has been learnt
- complete assessment items and submit them on time
- access and be familiar with the information and resources available on the unit website
- seek help from teaching staff if you have any questions or difficulties in studying this unit

In this unit you will be working an intensive 8 hrs/day for 2 consecutive weeks, and will put in about
another week's work in completing the assignment.

You are expected to arrange for full-time attendance during the unit. If this is not possible you should
discuss your problem with the unit coordinator.

You are encouraged to read the university's Code of Conduct for Teaching and Learning. Part A
describes the 'Responsibility of the University to Students' and part B describes the 'Responsibilities of
Students to the University'. [External Link]

Schedule

See the 'Schedule' section on the unit website for the timetable and associated resources.

Teaching and Support Staff

Teaching Staff

Unit Coordinator:

Lecturer: Prof. Arthur Sale
E-Mail: Arthur.Sale@utas.edu.au
Phone: (03) 6226 1792
Room: 463

Lecturing Staff

No Lectures Scheduled

School Help Desk

Contact the School Help Desk if you have any queries or problems with accessing, using, or printing
from the computers in the School of Computing labs.

- **Hobart**: the Help Desk is located near the School's reception desk and is open in the morning from
  9-11, and in the afternoon from 12-1 and 2-4, Monday-Friday. The phone number is 6226 2960.
- **Launceston**: the Help Desk is located near the entrance to the computing labs and is open in the morning from 10-12, and in the afternoon from 2-4:30, Monday-Thursday. On Fridays it is open from 10-12 in the morning and 2-4 in the afternoon. The phone number is 6324 3654.
- **Burnie**: the computer labs at the NWC are maintained by ITS. Please contact the University Help Desk for assistance. The 6 Macs are maintained by the School of Computing. If you have a query or problem that is specific to the School of Computing please phone the School of Computing Help Desk in Launceston.

**University Services and Support**

The University has staff available to assist you, such as the:

- Learning Development Advisor
- Student Counselor
- Careers Advisor
- Disability Officer

For more information and contact details see the Services and Support section on the University 'Current Students' web page. [http://www.utas.edu.au/students/](http://www.utas.edu.au/students/)

**Resources**

**Unit Website**

The unit website contains unit information and resources. The unit website will contain unit information and lecture notes for each session, mounted each day.

**Prescribed Text**

None

**Software**

The software that you will need to access the unit website and to study this unit, including general purpose software such as word processors, is provided on the computers in the School's computing labs. If you intend to use software on other computers please check that the versions are compatible.

You are likely to be using much specialized software during the unit, including speech synthesis tools, mobile phone simulators, etc. The unit coordinator will introduce you to these tools at the appropriate time.

**Computing Facilities**

The School has PC labs (Windows 2000 Professional), Mac labs (Mac OS-X 10.2), Unix labs (linux / X-windows), and Networking labs at the Newnham and Sandy Bay campuses. It also maintains 6 Macs (Mac OS-X 10.2) at the NW Centre.

If you have not used these facilities before please contact the School Help Desk to organise you account details. If you would like to access the facilities at the Newnham and Sandy Bay campuses after hours please contact the School Help Desk.

Please contact the School Help Desk if you have difficulty accessing or using these facilities.

**Ethical Use of Facilities**

Use of computing facilities provided by the School is subject to the School's Ethics Guidelines - [http://www.comp.utas.edu.au/app/ethics.jsp](http://www.comp.utas.edu.au/app/ethics.jsp). Copies of the guidelines are also available in all School labs. The School's facilities may only be used for study-related purposes, and may not be used for personal gain. The playing of games is strictly prohibited in all labs at all times. Before being granted access to the School's facilities, you will be required to sign a declaration that you have read and understand these guidelines, and that you will abide by them. Disciplinary action may be taken against students who violate the guidelines.

**Occupational Health and Safety**

The university is committed to providing a safe and secure teaching and learning environment. For more information see [http://www.admin.utas.edu.au/hr/ohs/pol_proc/ohs.pdf](http://www.admin.utas.edu.au/hr/ohs/pol_proc/ohs.pdf)

**ASSESSMENT**

**Assessment Items**

**Item 1**

**Title**: Project Assignment
Type: In-Semester - individual assignment  
Weighting: 100%  
Due: 24:00 Sunday 13 July 2003

The deadline for the project assignment is set to prevent this unit running into Semester 2.

See the 'Assessment' section in unit website for more detailed information about assessment items.

In-Semester Assessment

Unless specifically stated in the specification of the assessment item provided on the unit website, it is required that:

- work submitted by a student is the work of that student alone OR
- where the assessment item is to be completed by a group of students, the work submitted by the group of students is the work of that group of students alone.

Plagiarism

Plagiarism is taking and using someone else's thoughts, writings, or inventions and representing them as your own; for example downloading an essay from a cheat site, copying another student's work, or using an author's words or ideas without citing the source. Plagiarism is a form of cheating. It is a University offence punishable by a range of penalties including a fine or deduction/cancellation of marks and, in the most serious of cases, exclusion from a unit, a course, or the University. When in doubt consult your lecturer or tutor. Details of penalties that can be imposed are available in the Ordinance of Student Discipline or at http://www.utas.edu.au/plagiarism.

Referencing

The university document on plagiarism contains information about referencing the work or ideas of others. The preferred text referencing systems for the School is the Harvard system (also referred to as the author-date system). For information on the Harvard system see http://www.utas.edu.au/library/assist/gpoa/gpoa2.html.

Submissions

All in-semester assignment submissions (including electronic submissions) are to include an Assignment Cover Sheet which includes a statement confirming that the submission is your own work. If this undertaking is not signed, the assignment will not be marked. The Assignment Cover Sheet is available from the School Help Desk in Launceston and Hobart, and on the School's web site http://www.comp.utas.edu.au/app/studyresources.jsp.

Extensions

Assessment items will not be accepted after the due date except under the conditions stated in the school policy on late assessment, http://www.comp.utas.edu.au/app/late_assess.jsp

Final Grade

Passing grades will be awarded based on the AVCC guidelines:

- PP at least 50% of the overall mark but less than 60%
- CR at least 60% of the overall mark but less than 70%
- DN at least 70% of the overall mark but less than 80%
- HD at least 80% of the overall mark

The maximum mark awarded to a student who fails the unit will be 44.

For more information, including other grades such as Supplementary and Terminating grades, see the School of Computing's guidelines for assessment - available at: http://www.comp.utas.edu.au/app/assess.jsp