Unit Outline: KXT106 Building Interactive Multimedia Systems

Semester 1, 2007
North West Centre, Burnie
Sandy Bay Campus, Hobart
Newnham Campus, Launceston

Prerequisites
None
Corequisites
None
Unit Weight
12.5% of one academic year
Unit Coordinator
Soon-ja Yeom
Lecturing Staff
Sandy Bay Campus, Hobart: Soon-ja Yeom
Newnham Campus, Launceston: Robyn Gibson
Scheduled Teaching Sessions
Lectures: 3 hr/wk
Tutorials: 1 hr/wk (from week 2)
The Unit Timetable can be accessed from the Study Resources section of the School website. (http://www.comp.utas.edu.au/app/studyresources.jsp).
Lectures for North West Centre students will be via video conference. For information about videoconferencing at UTAS and how to participate effectively, see the Students' guide to Videoconferencing available at: http://www.utas.edu.au/itr/videoconf/StudentGuide2006.pdf or follow the Service desk link from the Current Students homepage>Videoconferencing.

Unit Website
The unit website is accessed from http://www.utas.edu.au/coursesonline/. You will need to use your university 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 Dependent: content. This means that you will need to use the Web for this unit. The unit website contains unit information and resources.
If you are not able to access the unit website, please contact the University IT help desk:
Entrance Level, Morris Miller Library, Sandy Bay Campus;
Entrance Level, Launceston Campus Library, Newnham Campus.
Telephone: 6226 1818 and 1300 304 903.
The 1300 number is a local call from within Tas, with the exception of mobiles.
Email: servicedesk@utas.edu.au
Website: http://www.utas.edu.au/servicedesk/student/index.html

University Website
Information and Resources for 'Current Students' are available on the university website at: http://www.utas.edu.au/students/
Provider
School of Computing - Faculty of Science, Engineering, and Technology.
http://www.comp.utas.edu.au

OVERVIEW

Introduction
Students will learn how to develop well-designed web sites that can incorporate the five main types of multimedia: text, graphics, sound, animation, and video. Students will learn and apply principles that ensure that web sites are efficient, adaptable, and accessible. Students will be introduced to software tools used in the development of multimedia and of web sites.

Learning Outcomes
On successful completion of this unit, you will be able to:
1. Design and implement a simple hypermedia web site that can incorporate media elements of different types (text, graphics, animation, sound, video).
2. Use XHTML markup language to control the structure of a web page.
3. Use Cascading Style Sheets (CSS) to control the appearance of a web page.
4. Use commercial software tools to develop multimedia and to develop and to mange web sites.
5. Describe ways in which web sites can be made efficient, adaptable, and accessible.

Unit Content
Web:
• Brief overview of the function of the world wide web.
• How XHTML is used to create web sites.
How style sheets (CSS) are used to control the appearance of web sites.
Principles and techniques for web site design.
Web site management – issues and tools.

Multimedia – important concepts and techniques for developing the following types of media for web based deployment:
- text
- still images
- animation
- sound
- video

Software – an introduction to commercial packages that are used to develop and integrate media including:
- Macromedia Dreamweaver MX
- Macromedia Flash MX
- Adobe Photoshop
- iMovie

Emerging topics in web development and multimedia deployment.

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. [http://www.utas.edu.au/policy/subject.html#graduates] 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.

In this unit these skills are specifically targeted.

Communication Skills: Students observe and investigate the characteristics of various media that determine their effectiveness as communication media on the world wide web.

Global Perspective: Students gain an understanding of the cultural issues that need to be considered when preparing multimedia documents for world-wide distribution.

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 tutorials, unless otherwise notified by the unit coordinator
- prepare for, and actively participate in lectures and tutorials
- 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

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'. [http://www.utas.edu.au/tl/policies/codes.html]

Schedule

See the 'Schedule' section on the unit website.

Teaching and Support Staff

Teaching Staff

Unit Coordinator:

Soon-ja Yeom
E-Mail: S.Yeom@utas.edu.au
Phone: (03) 6226 2963
Room: 352, Sandy Bay Campus, Hobart

Lecturing Staff

Sandy Bay Campus, Hobart: Soon-ja Yeom
Newnham Campus, Launceston: Robyn Gibson

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 from 10am - 4pm 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 10am - 12pm, and in the afternoon from 2pm - 4:30pm, Monday-Thursday. On Fridays it is open from 10am - 12pm in the morning and 2pm - 4pm in the afternoon. The phone number is 6324 3447.
- **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.

**Prescribed Text**


**Readings**

- Coorough, *Multimedia and the Web*, Harcourt college publisher

**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.

**Computing Facilities**

The School has PC labs (Windows XP), Mac labs (Mac OS-X 10.4), and Networking labs at the Newnham and Sandy Bay campuses. It also maintains 6 Macs (Mac OS-X 10.4) at the NW Centre. Unix accounts can be accessed from all Macs and PCs.

If you have not used these facilities before please contact the School Help Desk to organise your 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.

- Apple Macintosh Computer
- Unix account on Lawson (Launceston/Burnie) or Alacritas (Hobart)

**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/](http://www.admin.utas.edu.au/hr/ohs/pol_proc/)
Item 1  
**Title:** Tutorial Assessment (Quizes: 5% Portfolio: 15%)  
**Type:** In-Semester - learning tasks  
**Weighting:** 20%  
**Due:** during semester in tutorials

Students will be required to attend tutorials and to demonstrate practical and theoretical competence in the tutorial exercises. Students will be required to maintain an electronic "portfolio" of the work that they do as part of the tutorial exercises. This portfolio will be inspected and assessed at various times during the semester. A student's score for this assessment item will be based on:

- on-line quizzes (5%)  
- Evaluation of their tutorial work portfolio (15%)

Item 2  
**Title:** Assignment - Part I  
**Type:** In-Semester - individual assignment  
**Weighting:** 10%  
**Due:** Week 7 Monday 16 April, 3:00pm

Item 3  
**Title:** Assignment - Part II  
**Type:** In-Semester - individual assignment  
**Weighting:** 20%  
**Due:** Week 12 Monday 21 May, 3:00pm

Item 4  
**Title:** 2 hr Examination (closed book)  
**Type:** Formal Examination  
**Weighting:** 50%  
**Due:** University Examination Period

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 a form of cheating. It is taking and using someone else's thoughts, writings or inventions and representing them as your own, for example:

- using an author's words without putting them in quotation marks and citing the source;  
- using an author's ideas without proper acknowledgment and citation; or  
- copying another student's work.

**If you have any doubts about how to refer to the work of others in your assignments, please consult your lecturer or tutor** for relevant referencing guidelines, and the academic integrity resources on the web at [http://www.utas.edu.au/tl/supporting/academicintegrity/index.html](http://www.utas.edu.au/tl/supporting/academicintegrity/index.html).

The intentional copying of someone else's work as one's own is a serious offence punishable by penalties that may range from a fine or deduction/cancellation of marks and, in the most serious of cases, to exclusion from a unit, a course or the University. Details of penalties that can be imposed are available in the Ordinance of Student Discipline – Part 3 Academic Misconduct, see [http://www.utas.edu.au/policy/subject.html#students](http://www.utas.edu.au/policy/subject.html#students).

The University reserves the right to submit assignments to plagiarism detection software, and might then retain a copy of the assignment on its database for the purpose of future plagiarism checking.

**Referencing**

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

**Submissions**

The details of the submission method (paper, electronic or other) for each assignment will be supplied in a separate assignment specification sheet. 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

Formal Examination

The formal examination is conducted by the University Registrar. The 'Current Students' section on the university website contains information about the conduct of, and timetable for, formal examinations.

Final Grade

Overall assessment will be based on the student's performance throughout the semester as well as in a formal examination. In order to achieve a pass (or better) result, a student must obtain:

1. at least 45% of the total mark for in-semester assessment items
2. at least 45% of the mark for the formal examination
3. at least 50% of the overall mark

In order to comply with the benchmarks set by the Faculty of Science, Engineering & Technology for distribution of grades in units, both the in-semester and examination marks that students obtain may be adjusted either upwards or downwards. See http://fcms.its.utas.edu.au/scieng/scieng/policies.asp for details of the Faculty Assessment Guidelines.

In order to comply with the Faculty benchmarks for the distribution of grades, marks may be adjusted either down or up. These benchmarks can be found as part of the Faculty Assessment Guidelines on the Faculty Policies web page at:

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: