

PROPOSAL TO INTRODUCE A NEW COURSE

(formerly known as subject)

1. COURSE DETAILS

1.1 Course ID

GenED HCI

1.2 Course name - Long

Designing User Interfaces for People

1.3 Course name - Abbreviated

Designing User Interfaces for People

1.4 Course Authority

Daniel Woo

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ext/email

danielw@cse.unsw.edu.au

1.5 Organisational Unit responsible for course

School: Computer Science and Engineering **Faculty:** Engineering

Academic Group Code (Faculty): ENG

eg. Arts and Social Sciences = ARTSC

Academic Organisation Code (Owner): COMPSC

eg. Department of French=FREN

1.6 Justification of Proposal

User interfaces impact each person who uses computers and users tend to notice user interfaces when they are poorly designed.

The aim of this course is to introduce basic Human Computer Interaction knowledge and techniques to students in other faculties across the University. At some stage in their future careers, students from Commerce, Arts or Medicine could be involved in the specification of a system in their work place. This course will provide students with a practical understanding of the user centred design processes that will enable them to describe their user needs concepts with reference to the cognitive and technical issues. This will help bridge the "language differences" between the users and the system designers.

At present, non-computing University students would be exposed to many technologies and they may not fully appreciate why they fail to achieve their tasks or understand why they become frustrated with systems. Introducing students to the underlying human issues will help explain some of the reasons for their frustrations. Providing examples positive and negative examples of user interface design will also enhance their awareness.

Good user interface design requires participatory involvement from all stakeholders, which could mean that those who help design future systems may not have an Engineering background. By introducing non-Engineering students to user centred design we will encourage a greater appreciation, understanding and participation from the potential end users. Students who complete this course will realise the importance of feedback from all stakeholders early in the development phase.

The course will allow students to become aware of the reasons that lead to user frustration and also introduce students to create better designs through active user centred design activities. Creativity will be encouraged, especially to create multidisciplinary group exercises to take advantage of the

diverse student background that General Education courses offer.

1.7 Consultation Process

Bill Wilson
HCI Teaching Staff
Tutors in Human Computer Interaction

1.8 Units of credit (UOC) Session/s offered Hours Per Week

S? 3HPW 2 Hour Lecture + 2 Hour fortnightly lab

1.9 Pre-requisites: nil

Co-requisites:

Exclusions:

1.10 Proposed Entry in the Faculty Handbook

GENEDXXXX

Designing User Interfaces for People

Course contact: Daniel Woo

UOC 3 2Lec 2Lab (fortnightly) S?

Learn how to design usable user interfaces for people. Provides an understanding of user needs, human cognitive processing capabilities, designing for your users and collaborative work. The approach is cognitive, focusing on matching user goals with computer technologies. User centred design principles are introduced using paper-based prototyping techniques. Encourages group and practical studio design activities.

1.11 Is this course replacing an existing course?

YES

NO X

1.12 Undergraduate / Postgraduate

Either

1.13 Elective

NA

1.14 Program stage

NA

1.15 Program/s in which course is be available

All non-Faculty of Engineering

1.16 Proposed teaching methods and assessment practices

Lectures

Assessable Laboratory/Practical Exercises

1.17 Assessment grades to be used

HD, DN, CR, PS, FL

1.18 Mode of delivery

Internal X

External

Other (specify)

1.18.1 Multi-mode Delivery Guidelines

1.19 Information Technology Requirements for students

Students will be provided with controlled access to the existing Computer Human Interaction Laboratory that will provide access to Mac OS X computers. This laboratory has 20 machines for student use.

1.20 Textbooks

Preece, Rogers, Sharp, Interaction Design, John Wiley and Sons, 2002.

1.21 Industrial experience component

None

2. RESOURCE STATEMENT

2.1 Enrolments

Estimated or proposed enrolments for the next three years.

2005: 50

2006: 75

2007: 100

2.2 Resource Requirements

Staffing Requirements:

Hours per week

6 Full-time Academic Staff

3-6 Part-time Teaching Staff

4 General Staff

Field Costs: nil

Studio/Laboratory Requirements: Use of existing Computer Human Interaction Laboratory

Materials Requirements: nil

Equipment Costs: No extra requirements

Computing Requirements: Use of existing Computer Human Interaction Laboratory

Library Requirements: Standard text and reference requirements

Capital Funds Requirements: nil

2.3 Servicing Implications:

None

2.4 Teaching Arrangements:

(i) Will other units contribute on a regular basis to the teaching of this course?

YES

NO X

(ii) If so, which units are involved and what proportion of the course will they teach?

2.5 Alternative Delivery Arrangements:

None

2.6 Details of Tuition Fees:

Proposed fee: Standard fee structure for 3 UoC General Education courses

3. AUTHORISATION

3.1 University Librarian's Endorsement

I have examined the Library needs related to the above proposal and certify that existing Library holdings, staffing, services and accommodation are adequate / inadequate (delete one) to cover the demands that are inherent in it.

Appropriate arrangements for the use of digitised material to support this course have been made by the Course Authority with the University Librarian.

Further Comments:

University Librarian
/ /2004

3.2 Head of School's Approval

I have examined the resource implications of the above proposal in regard to staff, space, materials, equipment, capital funds, and computing, and certify that the School can cover the demands that are inherent in it.

Further Comments:

Head of School
/ /2004

3.3 Dean's Approval

I have examined the resource implications of the above proposal in regard to staff, space, materials, equipment, capital funds, and computing, and certify that:

- 3.3.1 (i) the proposal involves no additional resources. (A statement from the Head of School explaining how this can be achieved must be provided); or
- (ii) the proposal involves additional resources and it is proposed to redeploy existing resources within the faculty. (A statement from the Head of School explaining how this will be achieved must be provided); or
- (iii) the proposal involves additional resources to be obtained as set out below; or
- (iv) the additional resources essential to bring the proposal into effect cannot be found within resources available to the faculty.

3.3.2 **Fees** (delete if not applicable):

- a fee will not be charged for this program (other than HECS)
- a fee will be charged for this program for local fee-paying students
- a fee will be charged for international students

If a fee is to be charged the Dean certifies as follows:

I have ensured that the Vice-Chancellor has been advised of the proposed fee arrangements, and note that approval of fee arrangements is needed before the new program can be implemented.

3.3.3 the proposal conforms to the University's commitment to Equal Opportunity in Education.

Statement from Head of School on Source of Additional Resources and/or Further Comments:

Dean
/ /2003

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