

California State University Channel Islands
New Course Proposal

Program Areas: Math and Computer Science

1. Catalog Description of the Course.

Comp 549 HUMAN-COMPUTER INTERACTION (3)

Three hours lecture in the lab per week.

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

The design, development and analysis of effective interfaces to computer systems. Trends in graphical user interfaces.

2. Mode of Instruction.

	<u>Units</u>	<u>Hours per Unit</u>	<u>Benchmark Enrollment</u>
Lecture 3	1	24	
Seminar 0	0	0	
Laboratory	0	0	0
Activity 0	0	0	

3. Justification and Learning Objectives.

Justification: This course is an elective for graduate students in MS in Mathematics and MS in Computer Science programs. Increasingly, systems are used by non-computer specialists. Data such as that derived from cells is complex. Graduate-level students should be able to design systems with which it is easy to interact.

Learning Objectives:

1. Be able to design an effective interface to a previously unseen system
2. Be able to analyze the strengths and weaknesses of a system interface
3. Review and compare similar software applications for usability

4. Is this a General Education Course?

No.

5. Course Content in Outline Form.

Topics:

1. Human-centered and user-centered design
2. Cognetics and the locus of attention
3. Modes and quasimodes
4. Quantification
5. Unification
6. Navigation
7. Non-user interface issues
8. Interaction with biological data

6. References.

	Title	Author	Publisher	Year	ISBN
1.	The Humane Interface	J. Raskin	Addison-Wesley	2000	0201379376

7. Faculty Qualified to Teach This Course.

Qualified Faculty: Volkan, Wolfe**8. Frequency.**

Projected semesters to be offered: Fall, Spring, Summer

9. New Resources Required.

- a. New Equipment needs: use of existing computer lab
 - b. New Library needs: none
 - c. New Space/Facilities needs: none
- 10. Consultation.**
Attach consultation sheet from all program areas, Library, and others (if necessary).
- 11. Program Modification.**
If this new course will alter any degree, credential, certificate, or minor in your program, attach a program modification.
- 12. Proposer of Course.**

P.Smith ,

Oct 31, 2003

Proposer of Course

Date