

COMP 4020 – Human-Computer Interaction 2

Calendar Description: Advanced issues in the field of human-computer interaction. Topics will be selected from current research and development issues in the field of HCI.

Prerequisite: COMP 3020.

Recommended: A course in cognitive psychology (such as PSYC 2480)

Outline

- 1) Human cognition and behaviour (1 week)
Going beyond the desktop metaphor to focus on content, not tools
- 2) Web-based interaction (2 weeks)
- 3) Adaptable user interfaces (1 week)
User profiles, customization
- 4) Information appliances (2 weeks)
Example: PDA's
- 5) Prototyping complex user-interactions (3 weeks)
Object-oriented, drag and drop, customizing controls, desktop environment, Java 2D/3D
- 6) Usability evaluation (2 weeks)
- 7) Other topics (2 weeks)
Interactions for users with disabilities, multimedia interfaces and interactions, information visualization, computer-supported co-operative work, interactive advice systems, on-line training, speech interfaces, wearable interfaces

Text: John Carroll, *Human-Computer Interaction in the New Millennium*, Addison-Wesley, 2002.