

# Student Curriculum Recommendations

Matt Heying  
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Human  
Computer  
Interaction



# What is HCI?

- Human–computer interaction is a discipline concerned with the **design, evaluation** and **implementation** of interactive computing systems for human use and with the study of major phenomena surrounding them. ~SIGCHI



# Core Curriculum

- **Current Core:**
  - MIS 655x: Social and Organization Implications of HCI
  - HCI/CS 575x: Computational Perception  
or IE 574: Interaction Methods (no longer offered)
  - HCI/Psych 521x: Cognitive Psychology of HCI
  - Research Methods Course (required for Ph.D. program)
- **Proposed Core:**
  - HCI Design Course
  - HCI Implementation Course
  - HCI Evaluation Course



# Design

## Ideal Course:

- HCI 5XX: Interface and Interaction Design

## Alternative Courses:

- ArtGr 672: Graphic Design and Human Interaction
- HCI/Psych 521: Cognitive Psychology of HCI
- IE 576: Human Factors in Product Design



# Implementation

## Ideal Course:

- HCI 5XX: Human-Centered Software Development

## Alternative Courses:

- SE 319: Software Construction and User Interfaces
- SE 339: Software Architecture and Design
- Com S 363: Object-Oriented Analysis and Design
- Com S 512: Formal Methods in Software Engineering
- MIS 531: Business Software Development
- MIS 532: Advanced Business Software Development



# Evaluation

## Ideal Course:

- Psych/HCI 522: Scientific Methods of HCI

## Alternative Courses:

- CI 504: Managing and Evaluating Instructional Technology
- Psych 508: Research Methods in Applied Psychology
- Stat 401: Statistical Methods for Research Workers



# Other Recommendations

- Require qualifier for the Ph.D. program
- Require evaluation component for thesis/dissertation
- Reserve permanent and appropriate space for a Usability Lab
- Re-brand VRAC to reflect emphasis on the HCI program
- Increase faculty participation in the program
- Increase participation in HCI conferences (i.e. SIGCHI)
- Form Industry Advisory Board for HCI Program

