Human-Computer Interaction

School of Informatics
Bloomington

Director
Martin Siegel* (Education and Informatics)

Steering Committee
Elizabeth Boling* (Education), Javed Mostafa* (Library Science), Andrew Hanson* (Computer Science)

Departmental Email
informat@indiana.edu

Departmental URL
informatics.indiana.edu

Core Faculty
(An asterisk [*] denotes membership in the University Graduate School faculty with the endorsement to
direct doctoral dissertations.)

Professors
Jim Craig* (Psychology), Tom Duffy* (Education), Dennis Gannon* (Computer Science), Andrew Hanson* (Computer Science), Diane Kewley-Port* (Speech and Hearing Sciences), Annie Lang* (Telecommunications), Bob Port* (Linguistics), Edward Robertson* (Computer Science, Informatics), Yvonne Rogers* (Informatics, Library Science), Martin Siegel* (Informatics), Iris Vessey* (Business), Charles Watson* (Emeritus, Speech and Hearing Sciences)

Associate Professors
Elizabeth Boling* (Education), Curt Bonk* (Education), Julia Fox (Telecommunications), David Leake* (Computer Science), Anne Massey* (Business), Javed Mostafa* (Library and Information Science), John Paolillo (Informatics, Library Science), Gregory Rawlins* (Computer Science), Dirk Van Gucht* (Computer Science)

Assistant Professors
Eli Blevis* (Informatics), Katy Borner (School of Library and Information Science), Sue Brown (Business)

Ph.D. Minor in Human-Computer Interaction

Course Requirements for the Ph.D. Minor in HCI (12 credit hours)
The human-computer interaction minor requires 12 credit hours. Students must take a 3 credit hour
introductory graduate course in HCI from INFO I541 Human-Computer Interaction Design I, SLIS L542
Introduction to HCI, or EDUC R685 Human-Computer Interaction Design. In addition, students must take
9 credit hours from at least two departments other than the student's home department. All topical
seminar classes must be approved by the student's HCI advisor for application to the minor.
Grades
A minimum of B (3.0) is required in each course that is to count toward the minor.

Courses

Note: Consult the School of Informatics site: informatics.indiana.edu/academics/graduate_ms_hci_requirements.asp for HCI course listings, including HCI Design I and HCI Design II.

Business
S601: MIS Research Topics in Applications Systems Design (3 cr.)
S602: MIS Research Topics in Administration and Technology (3 cr.)

Computer Science
A546 User Interface Programming (3 cr.)
B581 Advanced Computer Graphics (3 cr.)
B582 Image Synthesis (3 cr.)
B665-B666 Software Engineering Management/Implementation (3 cr.)
B669 Topics in Database and Information Systems (1-6 cr.)
B689 Topics in Graphics and Human Computer Interaction (1-6 cr.)
P565-566 Software Engineering I-II (3 cr.)

Education
P544 Applied Cognition and Learning Strategies (3 cr.)
P600 Topical Seminar in Learning Cognition and Instruction (3 cr.)
R685 Human-Computer Interface Design (3 cr.)

Health, Physical Education, and Recreation
Y598 Ergonomics (3 cr.)
Y599 Cognitive Ergonomics (3 cr.)

Library and Information Science
L542 Introduction to HCI (or equivalent) (3 cr.)
L576 Digital Libraries (3 cr.)
L578 User Interface Design for Information Systems (3 cr.)
L597 Topics: Structural Datamining and Modeling (3 cr.)
L597 Topics: Information Visualization (3 cr.)
L597 Topics: Statistics for Information Science and Usability
L642 Information Usage and the Cognitive Artifact (3 cr.)
L697 Advanced Topics in Information Systems (1-4 cr.)

Psychology
P450 Human Factors (graduate credit awarded with extra assignments) (3 cr.)

Speech and Hearing Sciences
S522 Digital Signal Processing (3 cr.)

Telecommunications
T541 Processes and Effects: Individual level theory and research. (3 cr.)
T571 Applied Cognitive Emotional And Psychology Theory (3 cr.)
T602 Seminar in Processes and Effects: The information processing of Media. (1-3 cr.)
The range of courses offered is designed to enable students to construct a program for the Ph.D. Minor in HCI that is relevant to their primary research interests. Students taking topics classes must establish, to the satisfaction of the Steering Committee, the relevance of the subject matter to HCI when proposing the inclusion of such courses. Further courses will be added to or removed from the list on an ongoing basis at the discretion of the steering committee.

**Dissertation**

The student's dissertation must address issues related to human-computer interaction.