



**University Graduate School
2007-2008
Academic Bulletin**

Human-Computer Interaction

**School of Informatics
Bloomington**

Director

Professor Erik Stolterman* (Informatics)

Steering Committee

Elizabeth Boling* (Education), Javed Mostafa* (Library and Information Science), Martin Siegel* (Education, Informatics, Cognitive 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

Curt Bonk* (Education), Jim Craig* (Psychology), Tom Duffy* (Education), Dennis Gannon* (Informatics), Andrew Hanson* (Informatics), Diane Kewley-Port* (Speech and Hearing Sciences), Annie Lang* (Telecommunications), David Leake* (Informatics), Anne Massey* (Business), Javed Mostafa* (Library and Information Science), Bob Port* (Linguistics), Martin Siegel* (Informatics, Education, Cognitive Science), Erik Stolterman* (Informatics), Dirk Van Gucht* (Informatics), Charles Watson* (Emeritus, Speech and Hearing Sciences)

Associate Professors

Elizabeth Boling* (Education), Katy Borner (Library and Information Science), John Paolillo* (Informatics, Library and Information Science), Gregory Rawlins* (Informatics)

Assistant Professors

Jeffrey Bardzell* (Informatics), Eli Blevis* (Informatics), Julia Fox* (Telecommunications), Yoon-Kyong Lim* (Informatics)

Ph.D. Minor in Human-Computer Interaction (HCI)

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 or SLIS L542 Introduction to HCI. In addition, students must take 9 credit hours from at least one department 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.

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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: www.informatics.indiana.edu/academics/hcid.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.)

Health, Physical Education, and Recreation

Y598 Ergonomics (3 cr.)

Y599 Cognitive Ergonomics (3 cr.)

Informatics

I502 Information Management: Prototyping for HCI (3 cr.)

I541 Human-Computer Interaction Design I (3 cr.)

I543 Usability and Evaluative Methods (3 cr.)

I590 Human-Computer Interaction Design II (3 cr.)

I690 Interaction Design Theory (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 (3 cr.)

L642 Information Usage and the Cognitive Artifact (3 cr.)

L697 Advanced Topics in Information Systems (1-4 cr.)

Psychological and Brain Sciences

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.