

INDIANA UNIVERSITY

University Graduate School
2005-2006
Academic Bulletin

University Graduate School
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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.)

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.