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# Interdisciplinary Graduate Program in Human-Computer Interaction

## Areas of Study

[Cognitive](#)

[Industrial/Organizational & Human Factors](#)

Human-Computer Interaction

### **Faculty:**

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### **The Program:**

In addition to the Human Factors and the Neuroscience tracks, students may specialize in Human-Computer Interaction within either the Cognitive or I/O Psychology programs. Students would of course be required to take the departmental core courses. In addition, a student specializing in Human-Computer Interaction within the Cognitive program would take the standard cognitive core courses and a student specializing in Human-Computer Interaction within the I/O program would take the I/O core courses. At least three additional elective courses would be taken subject to the approval of the student's committee and the Graduate Affairs Committee.

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### **Cognitive/Human-Computer Interaction Program**

Students are within the Cognitive program.

Departmental core courses as required for all other students in the Cognitive program (two statistics, Foundations of Cognitive psychology, Professional Issues, and Cognitive Research Seminar) apply to students in the Cognitive/HCI track. Students are also required to attend the Cognitive Tea as are other Cognitive students.

*Cognitive/HCI core:*

Psyc 521 Perception  
 Psyc 522 Information Processing and Attention  
 Psyc 524 Memory  
 Psyc 525 Psycholinguistics  
 Psyc 527 Thinking

Students must take three of the five courses listed above and all four of the courses listed below.

Psyc 540 Foundations of Engineering Psychology (Human Factors)  
 Psyc 541 Human-Computer Interaction  
 Psyc 504 Computer Applications in Psychology  
 Psyc 640 Topics in Human Factors/HCI (Methods)

*Cognitive/HCI electives:* at least two must be taken

Psyc 511 History and Systems of Psychology  
 Psyc 512 Thinking and Decision-Making  
 Psyc 522 Information Processing and Attention  
 Psyc 526 Artificial Intelligence and Cognitive Science  
 Psyc 530 Foundations of I/O Psychology  
 Psyc 543 Computational Modeling  
 Psyc 550 Foundations of Social Psychology  
 Psyc 601 Multivariate Statistics  
 Psyc 602 Psychometrics

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**Industrial-Organizational/Human-Computer Interaction (HCI) track**

Students are within the I/O program. Departmental core courses as required for all other students in the I/O program (two semesters statistics, Foundations of Cognitive Psychology, Professional Issues, Foundations of Social Psychology, and I/O Research Seminar) are

required of students in the I-O/HCI track. Students should attend the I/O research meeting, though in some cases the Cognitive Tea can be substituted, as appropriate.

*Industrial-Organizational/HCI core:*

Psyc 504 Computer Applications in Psychology  
Psyc 530 Foundations of I/O Psychology  
Psyc 540 Foundations of Engineering Psychology (Human Factors)  
Psyc 541 Human-Computer Interaction  
Psyc 550 Foundations of Social Psychology  
Psyc 601 Multivariate Statistics  
Psyc 602 Psychometrics  
Psyc 640 Topics in Human Factors/HCI (Methods)

*Industrial-Organizational/HCI core electives:* Minimum of one from each group

Group 1:

Psyc 511 History and Systems of Psychology  
Psyc 512 Thinking and Decision-Making  
Psyc 521 Perception  
Psyc 522 Information Processing and Attention  
Psyc 524 Memory  
Psyc 525 Psycholinguistics  
Psyc 526 Artificial Intelligence and Cognitive Science  
Psyc 527 Thinking  
Psyc 543 Computational Modeling

Group 2:

Psyc 630 Topics in I/O Psychology  
Psyc 632 Leadership  
Psyc 633 Work Attitudes and Motivation  
Psyc 634 Personnel Selection