PH.D. IN INFORMATICS - HUMAN-COMPUTER INTERACTION TRACK

Course Requirements & 5-Year Plan of Study

[For Students Starting in Fall 2019 and Forward]

The Ph.D. in Human Computer Interaction is a 90 credit hour program that includes:

Core Courses **18 cr.** → HCI Core 18 cr. (H541, H564, H624, H634 and 2xHCI Research Area Selectives)
Methods Courses **18 cr.** → I575 + 2xMethods Electives + 3xResearch Rotations I790
Specialization **18 cr.** → Disciplinary Affinities 0-6 cr. (1 cr. Colloquia Series and/or Electives) + Minor 12-18 cr.
Dissertation **36 cr.** → Thesis Reading and Research I890 (Dissertation Credits)

Recommended Plan of Study[1]

	Fall	Spring	Summer[2]
Yr. 1	• H541 HCI1 • H624 HCI Advanced Seminar I *H599 Research Colloquia Series (1 cr.)*	• H564 Prototyping • HCI Research Area Selective, choose one: H566 Experience Design for Ubi Comp I590 Exp. Design for Access Technologies H567 IoT Interface Design I501 Intro to Informatics *H599 Research Colloquia Series (1 cr.)*	• I790 Research Rotation • *Disciplinary Affinity Elective or Minor Course (if not H599)* • First-year Review: **Research Portfolio**
Yr. 2	• I575 Informatics Research Design • HCI Research Area Selective, choose one: H563 Psychology of HCI H565 Collab and Social Computing H517 Visualiz. Design, Analysis, Eval. H543 Interaction Design Methods (take it *online* or in Year 3, if scheduling conflicts) *H599 Research Colloquia Series (1 cr.)*	• H634 Advanced Seminar II • HCI Research Methods Elective *H599 Research Colloquia Series (1 cr.)*	• I790 Research Rotation • *Disciplinary Affinity Elective or Minor Course (if not → H599 fall/spring)* • **PhD Qualifying Exams**
Yr. 3	• Minor course • Minor course or Research Methods Elective *H599 Research Colloquia Series (1 cr.)*	• Minor course or Research Methods Elective *H599 Research Colloquia Series (1 cr.)*	• I790 Research Rotation • **Dissertation Proposal Defense**
Yr. 4	• Dissertation credits	• Dissertation credits	• Dissertation credits
Yr. 5	• Dissertation credits	• Dissertation credits	• **Dissertation Defense** (upon meeting IUPUI Graduate Office approvals and deadlines)

Sample Research Methods Electives

- H561 Meaning and Form in HCI
- PSY600 Statistical Inference
- PSY601 Experimental Design
- PSY608 Measur. Theory and Data Interpret.
- *See list on next page for more options*

Sample Electives

- *Any additional 500-level or 600-level course in the School of Informatics and Computing, or in other Schools on campus.*

[1] Please note that required courses are NOT offered in more than one semester; if you miss the course, you may have to wait another year and potentially delay your graduation.

[2] Students who receive full support from the School as a Teaching Assistant (TA) or Research Assistant (RA) are on a 12-month appointment and must remain as a full time student in the summer, i.e., they must continue to work 20 hours per week as research assistant and take a minimum of 6 credit hours per semester. The Department Scholarship will cover no more than 18 cr.hours in a given academic year (fall, spring and summer).

IMPORTANT NOTES ON PHD PROGRESSION AND TIMELINE

- **Detailed instructions on the First-year Review and PhD Qualifying Exams are available at: http://soic.iupui.edu/graduate/hci/phd/**
- **Throughout the PhD study progression, PhD Students are responsible to adhere to the IUPUI Graduate Office's deadlines and timeline required to submit the necessary documentation and obtain approvals for the student's committees, dissertation proposal, defense and submission. PhD progression deadlines are specified here: https://graduate.iupui.edu/theses-dissertations/deadlines.html https://graduate.iupui.edu/doc/forms/progression-checklist-phd.pdf**

OTHER RESEARCH METHODS COURSES
(Students MUST Check for Semesters Offering and prerequisites from the Respective Schools and Departments)

PSY 608	Measurement Theory and Interpret Data
PSY 640	Survey of Social Psychology I
PSY 655	Cognitive Development (Fall Even Yr)
PSY-I 643	Field Methods & Exper
ANTH-E404	Field Meth in Ethnography
COM 501	Qualitative Research
COM 502	Applied Qualitative Research Methods
EDU 520	Strategies for Educational Inquiry
EDU 611	Qualitative Inquiry in Education
NURS-L 650	Data Ana Clinical & Admin Dec.-Making
NURS-R 612	Interpretive Data Analy (2 cr.) Sum I-II
SOC-R 551	Quantitative Methods – Sociology
SOC-R 551	Quantitative Methods Sociology
SOC-R 559	Intermediate Soc Statistics
STAT 511	Statistical Methods 1
STAT 512	Applied Regression Analysis
STAT 516	Basic Probability Appl.
STAT 519	Intro to Probability
STAT 521	Statistical Computing
STAT-522	Sampling and Survey Techniques
STAT 524	Applied Multivariate Analysis
STAT 525	Intermediate Stat Methodology
STAT 529	Applied Dec Theory and Bayesian Stat
STAT 619	Probability Theory

OTHER ELECTIVE COURSES IN THE SCHOOL AND ON CAMPUS
(Students MUST Check for Prerequisites and Updated Course Availability from the Respective Schools and Departments)

https://www.iupui.edu/academics/schools.html