MASTER OF SCIENCE IN HUMAN–COMPUTER INTERACTION

FULL-TIME STUDENT: COURSE REQUIREMENTS & PLAN OF STUDY

HCI MS: 36 Credit Hours, Includes:
- Core courses (marked with *) 24 Credit Hours
- Electives or HCI Internship 6 Credit Hours
- Final Project/Thesis (marked with **) 6 Credit Hours

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<tr>
<th>FALL</th>
<th>SPRING</th>
<th>SUMMER</th>
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<tr>
<td>YR 1</td>
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<tr>
<td>• H541 HCI Design 1* [in-class</td>
<td>online] - R (Alternative title: Interaction Design Practice)</td>
<td>• H501 Introduction to Informatics* 1 [in-class] - W</td>
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<td>YR 2</td>
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<td>• H563 Psychology of HCI* [in-class</td>
<td>online] - W</td>
<td>• H561 HCI Design 2* [in-class</td>
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<td>• H680 HCI Professional Practice 1** [in-class] - T</td>
<td>• H564 Prototyping for Interactive Systems* [in-class</td>
<td>online] (Thesis students replace this with Statistics* course) - T</td>
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<td>Electives:</td>
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<td>• H624 HCI Advanced Seminar I 2 [in-class] - T</td>
<td>• H681 HCI Professional Practice 2** [in-class</td>
<td>online] - W</td>
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<td>• I575 Informatics Research Design 2 [in-class] - M</td>
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Detailed schedule of each course is updated and published every semester on the IUPUI Registrar website.

FINAL PROJECT OPTION (recommended for completion of the degree in two years)

Required Courses for Final Project (6 cr.)
- • H680 HCI Professional Practice 1 (offered only in the Fall semester) (3 cr.).
  - Prerequisites: H541, H561, H543, H563, H564, H590 (Topics A), & H590 (Topics B)
- • H681 HCI Professional Practice 2 (offered only in the Spring semester) (3 cr.).
  - Prerequisites: H680.

Final Project Requirement:
- All HCI students must complete a final project by registering for two courses: H680 HCI Professional Practice 1 (offered ONLY in the Fall) and H681HCI Professional Practice 2 (offered ONLY in the Spring). Each course includes a formally scheduled in-class time that students must attend. Students will work on one final project that extends throughout the two courses, i.e., in both fall and spring semesters. Students will receive an official grade at the conclusion of each course/semester. Students are encouraged to propose a project that can be realistically completed by the conclusion of H681, the Spring semester. Incompletes are NOT permitted.

THESIS OPTION (with permission)

Required Course (6 cr.)
- • I694 HCI Thesis

Thesis Requirement:
- The Thesis option is reserved for students who possess a demonstrated ability to carry out publishable empirical research. Qualified students must find a research-active faculty member willing to advise them on a thesis by the end of the second semester.
- Students taking the Thesis option must take and successfully pass I575 Informatics Research Design by the completion of their first year. They should also take an additional statistics course prior to their final regular semester (see course list below). As with the final project, incompletes will NOT be permitted. It is the student’s responsibility to propose a thesis that can be completed within a two-semester timeline. To do this, students MUST provide their primary thesis advisor with a full thesis proposal and outline that includes a timeline for the writing of the thesis.

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1 Students MUST take H501 in the spring semester, which is designated only for HCI students.
2 Advanced Seminar I is primarily for HCI PhD students, but MS students may also register for this course as an Elective.
3 I575 Informatics Research Design is ONLY required for students taking the Thesis option. Thesis students must move I564 (Prototyping) to the spring semester of their second year, taking it in a statistics course course. (Project students may take I575 as an HCI Elective.)
4 STAT 5100 Statistical Methods, R559 Intermediate Sociological Statistics, NURS-L 650 Data Analysis for Clinical and Administrative Decision Making, and or P600 (PSY) Statistical Inference, the following Fall. NURS-L 650 is also offered in the summer.
HCI Internship
(Equivalent to Elective Courses)

The Informatics Career Services Office assists students with finding HCI-related Internships (e.g., summer semesters) to gain valuable professional experience within the HCI industry prior to graduation. **Up to 6 credits of internships may be counted towards elective credits. Credit for an internship should be requested prior to the starting date of the internship since retro-credit is not permitted.** Once approved authorization is given to register for an online credit internship course. Please contact Brian Benedict (bbenedic@iupui.edu), Director of Career Services, to learn more about internship opportunities and the credit internship evaluation and approval process.

**Recommended Elective Courses**
(Students MUST Check for Prerequisites and Course Availability from the Respective Schools and Departments)

**INFORMATICS**
- I503 Social Impact of Information Technology
- I505 Informatics Project Management
- I510 Data Acquisition and Lab Automation
- I512 Scientific Data Management
- I535 Clinical Information Systems
- I540 Data Mining for Security
- I550 Legal & Business Issues in Informatics
- I554 Independent Study in HCI (1-3 cr.)
- I590 Structured Conceptual Design for Interactive Applications
- I605 Social Foundations of Informatics

**MEDIA ARTS AND SCIENCE**
- N500 Principles of Digital Arts Production
- N502 Digital Media Motion & Sim. Meth
- N503 Digital Media Appl Design Proc
- N504 Advanced Interactive Design Appl
- N506 Media Arts and Technology Project
- N510 Web Database Concepts
- N503 Foundations of Digital Production

**PSYCHOLOGY**
- PSY750 Industrial Psychology – Fall, odd yr
- PSY752 Organizational Psych – Spring, even yr
- PSY615 Physiological Psych – Fall, even yr
- PSY640 Social Psychology I – Fall, odd yr
- PSY655 Cog Development – Fall, even yr

**COMPUTER SCIENCE**
- CSCI 507 Object-Oriented Design & Prog
- CSCI 537 Intro to Distributed Computing
- CSCI 541 Database Systems
- CSCI 550 Computer Graphics
- CSCI 552 Advanced Graphics and Visualization
- CSCI 565 Programming Language

**DESIGN (HERRON)**
- HER–V501 Design Thinking (1.5 cr.)
- HER–V502 Human Factors in Design (1.5 cr.)
- HER–R511 Visual Research (3 cr.)

**COMMUNICATION**
- COMM–C 500 Advanced Comm Theory
- COMM–C 531 Media Theory and Criticism
- COMM–C 592 Advanced Health Communication
- COMM–C 620 Computer-Mediated Communication

**SOCIOLOGY**
- SOC–R 556 Advanced Sociological Theory I
- SOC–R 557 Advanced Sociological Theory II
- SOC–R 559 Intermediate Sociological Statistics
- SOC–R 593 Applied Fieldwork for Sociologists
- SOC–S 530 Introduction to Social Psychology

**GEOGRAPHY**
- GEOG–G 536 Advanced Remote Sensing
- GEOG–G 537 Computer Cartography and Graphics
- GEOG–G 538 Intro to Geographic Information Systems
- GEOG–G 539 Advanced Geographic Information Systems

**OTHERS**
- ANTH 501 Fundamentals of Applied Anthropology
- ED 531 Computers in Education
- SLIS–S 532 INFO Architecture for the Web

**Recommended Research Methods Courses**
(Students MUST Check for Prerequisites and Course Availability from the Respective Schools and Departments)

I-590 Res. Methods: Analysis, Interpretation and Reporting
- 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 for Clinical & Admin Decis-Making
- NURS-R 612 Interprative Data Analysis (2 Cr.), Summer I-II
- PSY 600 Statistical Inference (Fall Even Yr)
- PSY 601 Experimental Design (Sp Even Yr)
- 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
- SOC–R 551 Quantitative Methods – Sociology
- SOC–R 559 Intermediate Soc Statistics
- STAT 511 Statistical Methods I
- STAT 512 Applied Regression Analysis
- STAT 516 Basic Probability Appl
- STAT 519 Intro to Probability

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**HCI MS Plan of Study**
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