PLAN OF STUDY
FALL 2021 (ON-CAMPUS)
MASTERS OF SCIENCE IN HUMAN-COMPUTER INTERACTION (HCI)

MS Degree Requirements: 36 Credit Hours

<table>
<thead>
<tr>
<th>Required Core (15 cr.)</th>
<th>Required Selectives (9 cr.)</th>
<th>Open Electives (6 cr.)</th>
<th>Final Project (6 Cr.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H541, H543, H561, H563, H564.</td>
<td>Choose one: H517 or H565 Choose one: H567 or H581 or H582 or H583 Choose one: H566 or H570 Tangible &amp; Embodied Int.</td>
<td>Recommended electives include: HCl Professional Internship (I595); any 500-level course on campus that complements your HCI background; I575, H554, N510, PSY6000; Any selective courses not taken.</td>
<td>MS Final Project: [H680 and H681, taken sequentially] or MS Thesis: 2 x H694 (faculty approval required)</td>
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FALL

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<thead>
<tr>
<th>YR 1</th>
<th>Required in either Y1 OR Y2: H563 Psychology of HCI (O)</th>
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<tbody>
<tr>
<td></td>
<td>Selective Option (choose one):</td>
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<tr>
<td></td>
<td>- H517 Visualization Design, Analysis, and Evaluation</td>
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<td>- H565 Collaborative &amp; Social Computing</td>
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<tr>
<th>YR 2</th>
<th>Required in either Y1 OR Y2: H563 Psychology of HCI (O)</th>
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<tr>
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<td>Selective Option (choose one):</td>
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<td>- H517 Visualization Design, Analysis, and Evaluation</td>
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<td>- H565 Collaborative &amp; Social Computing</td>
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<td>One Open Elective</td>
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SPRING

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<tr>
<th>Required Core (15 cr.)</th>
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<tbody>
<tr>
<td>H680 HCI Professional Practice 1</td>
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| H681 HCI Professional Practice 2 |
| Selective Option (choose one): |
| - H566 Experience Design and Ubiquitous Computing |
| - H570 Tangible and Embodied Interaction |
| One Open Elective |

SUMMER

|      | Elective or Internship* |

NOTES: (O) = Online section available. We recommend taking no more than three graduate courses per semester.
For questions on degree requirements and course selection, contact the HCI Program Director Prof. Davide Bolchini dbolchin@iupui.edu

FINAL PROJECT or THESIS REQUIREMENTS

**The Professional Practice Courses H680-H681 are the Final MS Project:**
The “default” graduation option for all MS students is the MS Final Project of 6 Cr. Hrs., consisting of the sequence H680 and H681.

1. H680 HCI Professional Practice 1 (3 cr.).
   - Prerequisites: all core courses in first two semesters.
2. H681 HCI Professional Practice 2 (3 cr.).
   - Prerequisites: H680
3. The H680/681 course sequence includes a formally scheduled in-class time that students must attend.
   - Students will work on one, final project (typically team-based) that extends throughout the two courses (fall and spring).
   - Students will receive an official grade at the conclusion of each course/semester.
   - Incompletes are NOT permitted. The successful completion of the H680-H681 sequence (along with all other coursework) guarantees timely graduation for all students.

**H694 Thesis OPTION:** Upon permission granted by a faculty member who commits to be a thesis advisor, a student may request permission to replace the H680-H681 course with a H694 Thesis (6 credits). This option requires much more proactive commitment, early planning, time management, research skills and autonomy than the final project and is granted only by a faculty member who is willing to accept the student as thesis advisor for at least two consecutive semesters. H694 will be considered completed only after the final thesis has been approved by the thesis advisor and the committee members, presented and orally defended.

- Students taking the H694 Thesis Option must take I575 – Research Design as one of their elective courses. Based on the thesis advisor’s recommendation and the nature of the thesis work, the student may take an alternative research methods course as an elective, if useful to the completion of thesis.
INFO-I595 Professional Internship  
(Counts as 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 (course I595) 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 Career Services (soiccso@iupui.edu) to learn more about internship opportunities and the credit internship evaluation and approval process.

**Potential Elective Courses**

(Students MUST Check for Prerequisites and Course Availability from the Respective Schools and Departments on campus)

**OTHER ELECTIVE COURSES  
IN HUMAN-CENTERED COMPUTING**

HCI selective courses not chosen as selectives can be taken as electives.

**Entrepreneurship:** H550 Legal and Business Issues in Informatics (contact: Sara Hook).

**Project Management:** BS505 Project Management.

**Game Design:** N534 Serious Games and Simulations; 500-level sections of Game Production courses (contact: Mat Powers).

**3D Graphics/Animation:** 500-level sections of 3D Graphics and Animation courses (contact: Zeb Wood).

**Web Design/Development:** N504 Advanced Int. App. Design; 500-level sections of Web Design/Dev. courses (contact: Todd Shelton, Travis Faas).

**Video Production:** 500-level sections of Video Production courses (contact: C. Thomas Lewis).

**PSYCHOLOGY**

PSY570 Industrial Psychology – Fall, odd yr  
PSY572 Organizational Psych – Spng, 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

**SOCIOLGY**

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

Other Research Methods Courses

(Students MUST Check for Prerequisites and Course Availability from the Respective Schools and Departments)

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 Interpretive Data Analysis (2 Cr.), Summer I-II  
PSY 600 Statistical Inference (Fall Even Yr)  
PSY 601 Experimental Design (Spng 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