PLAN OF STUDY
FALL 2019
MASTER OF SCIENCE IN HUMAN-COMPUTER INTERACTION
School of Informatics and Computing (SoIC)

MS Degree Requirements: 36 Credit Hours

<table>
<thead>
<tr>
<th>Required Core Courses (18 cr.)</th>
<th>Required Selectives (6 cr.)</th>
<th>Open Electives (6 cr.)</th>
<th>Final Project (6 Cr.)</th>
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</thead>
</table>
| H541, H543, H561, H563, H564, H566. | Choose one: {H517 or H565}  
Choose one: {H567 or I590 Accessibility or N505}. | HCI Internship (I595), any 500-level course on campus that complements your HCI background. Recommended electives include: I575, H554, PSY6000, and any selective courses not taken. | MS Final Project: [H680 and H681, taken sequentially] or MS Thesis: 2 × H694 (faculty approval required) |

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<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
<th>SUMMER</th>
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<tbody>
<tr>
<td><strong>Y R 1</strong></td>
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<tr>
<td>H541 Interaction Design Practice</td>
<td>(O)</td>
<td>H561 Meaning and Form in HCI</td>
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<tr>
<td>H543 Interaction Design Methods</td>
<td>(O)</td>
<td>H564 Prototyping for Interactive Systems</td>
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<td><strong>Required in either Y1 OR Y2:</strong></td>
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<tr>
<td>H563 Psychology of HCI</td>
<td>(O)</td>
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<td><strong>Selective Option (choose one):</strong></td>
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<tr>
<td>- H517 Visualization Design, Analysis, and Evaluation</td>
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<td>- H565 Collaborative &amp; Social Computing</td>
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| **Y R 2** | | |
| H680 HCI Professional Practice 1 | | | |
| **Required in either Y1 OR Y2:** | | | |
| H563 Psychology of HCI | (O) | H681 HCI Professional Practice 2 | |
| **Selective Option (choose one):** | | | |
| - H517 Visualization Design, Analysis, and Evaluation | | | |
| - H565 Collaborative & Social Computing | | | |
| **One Open Elective** | | | |

**NOTES:** (O) = Also taught Online.  
*We recommend to take no more than 3 graduate courses per semester.*

**FINAL PROJECT or THESIS REQUIREMENTS**

**H680-H681 Final 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.
   - Prerequisites: H680.
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, 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 completed and approved by the thesis advisor and the committee members.

- 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.

**Detailed schedule of each course is updated and published every semester on the IUPUI Registrar website.**
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
(Student MUST Check for Prerequisites and Course Availability from the Respective Schools and Departments on campus)

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

- **Entrepreneurship:** H550 Legal and Business Issues in Informatics (contact: Sara Hook).
- **Project Management:** B505 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).
- **Digital Media and Healthcare:** NS07 Digital Media for Healthcare (contact: Edgar Huang).
- **Video Production:** 500-level sections of Video Production courses (contact: C. Thomas Lewis).

**PSYCHOLOGY**

- PSY570 Industrial Psychology – Fall, odd yr
- PSY572 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

**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
(Student 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 (Spg 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