INDIANA UNIVERSITY
SCHOOL OF INFORMATICS AND COMPUTING
Department of Human-Centered Computing
IUPUI

PLAN OF STUDY
[SPRING 2019]

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

MS: 36 Credit Hours			
Required Core Courses (18 cr.)	**Required Selectives (6 cr.)**	**Open Electives (6 cr.)**	**Final Project (6 Cr.)**
H541, H543, H561, H563, H564, H566.	Choose one: {H565 or H517} 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 selective courses not taken as selective.	MS Capstone: [H680 and H681, taken sequentially] or MS Thesis: 2 × H694 (*faculty approval required*)

	SPRING	SUMMER	FALL
YR 1	**H541** Interaction Design Practice **(O)** **H564** Prototyping for Interactive Systems **(O)** ***Choose one:*** **H567** IoT Interface Design for Business Innovation **I590** Experience Design and Eval. of Access technologies **N505** Advanced issues in Emerging Media Environments	• **Elective or** • **Internship***	**H543** Interaction Design Methods **(O)** **H563** Psychology of HCI **(O)** ***Recommended Electives:*** **H567** IoT Interface Design for Business Innovation **I575** Informatics Research Design **H554** Independent Study in HCI (faculty approval required)
YR 2	**H566** Experience Design and Ubiquitous Computing **H561** Meaning and Form in HCI **(O)** **H680** HCI Professional Practice 1	• **Elective or** • **Internship***	**H681** HCI Professional Practice 2 ***Choose one:*** **H565** Collaborative & Social Computing **H517** Visualization Design and Analysis
	NOTES: (O) = Also taught Online		

FINAL PROJECT REQUIREMENTS

H680-H681 Capstone: The "default" graduation option for all MS students is the Final Capstone 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: Upon permission granted by a faculty member who commits to be a thesis advisor, a student may replace the H680-H681 course with a H694 Thesis (6 credits). This option requires much more proactive commitment, time management, research skills and autonomy to the capstone 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.

HCI Internship (I595)

(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 (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

Entrepreneurship: H550 Legal and Business Issues in Informatics (contact: Sara Hook).
Project Management: B505 Project Management.
UX/HCI: H590 User Experience Architectures (contact: Davide Bolchini).
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: N507 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 – Sping, 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

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 (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 1
STAT 512	Applied Regression Analysis
STAT 516	Basic Probability Appl
STAT 519	Intro to Probability