



PLAN OF STUDY
[FALL 2017]

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

MS: 36 Credit Hours		
Program Core	Electives or HCI Internship	Final Project
H541, H543, H561, H563, H564, I501, [H565 or H517], H566	Recommended Electives (see also next page): I595, I575, H554	[H680, H681] or 2 x H694
24 Cr. Hr.	6 Cr. Hr.	6 Cr. Hr.

	FALL	SPRING	SUMMER
Y	H541 Interaction Design Practice [R 6pm] (O) H543 Interaction Design Methods [M 6pm] (O) Choose one:	H561 Meaning and Form in HCI [M 6pm] (O) H564 Prototyping for Interactive Systems [W 10am] (O) H566 * Experience Design and Ubiquitous Computing [R 6pm]	• Elective course or • Internship as elective
R	H565 Collaborative & Social Computing [T 6pm] H517 Visualization Design, Analysis, and Evaluation [W 12pm]	* H566 not offered in Spring 2018. For fall 2017 admits only, H566 may be replaced with one of the following courses: H599 section: 32532 (with Lou Lenzi); I590 section: 33765 (with Erin Brady); N585 section: 31935 (with Joe Defazio)	
1			
Y	H563 Psychology of HCI [W 6pm] (O) H680 HCI Professional Practice 1 [R 6pm]	I501 Introduction to Informatics for HCI [W 6pm] H681 HCI Professional Practice 2 [R 6pm]	• Elective course or • Internship as elective
R	Recommended Electives (Select One – see next page for more): - I575 Informatics Research Design - H554 Independent Study in HCI (faculty approval required)	Recommended Electives: - Other Informatics course (see next page for more options)	
2			
	NOTES: (O) = Also taught Online - [R] =Thursday		

FINAL PROJECT REQUIREMENTS

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

- H680 HCI Professional Practice 1** (3 cr.)
 - Prerequisites: H541, H543, H561, I501, H565, H566
- H681 HCI Professional Practice 2** (3 cr.)
 - Prerequisites: H680
- The H680/681 course sequence includes a formally scheduled in-class time that students must attend.
 - Students will work on one, individual final project that extends throughout the two courses (fall and spring).
 - 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.
 - The successful completion of the H680-H681 sequence (along with all other coursework) guarantees timely graduation for all students.
 - Students completing H681 are required to present their project results as a poster at the Capstone event.

H694 Thesis Option: Upon permission granted by a faculty member who commits to be a thesis supervisor by the end of Summer of the first year, a student may replace the H680-H681 course with a H694 Final Project or Thesis (6 credits). This option requires much more proactive commitment, time management, research skills and autonomy to the student than H680-H681 and is granted only by a faculty member who is willing to accept the student as thesis supervisor for at least two consecutive semesters. H694 will be considered completed only after the thesis delivered has been approved by the supervisor, and defended in front of a faculty thesis committee.

- 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 additional 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 (soiccco@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)

OTHER ELECTIVE COURSES IN THE HUMAN-CENTERED COMPUTING DEPARTMENT

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

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).

RELEVANT ELECTIVES IN BIOHEALTH INFORMATICS DEPARTMENT

Project Management: B505 Project Management.

Health Informatics and Human Factors: B626 Human Factors Engineering for Health Informatics

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