# PLAN OF STUDY

**[SPRING 2015]**

## MASTER OF SCIENCE IN HUMAN-COMPUTER INTERACTION

School of Informatics and Computing (SoIC)

<table>
<thead>
<tr>
<th>Program Core</th>
<th>Electives or HCI Internship</th>
<th>Final Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>H541, H543, H561, H563, H564, I501, H565, H566</td>
<td>Recommended Electives: I575, H524, H554, I595</td>
<td>H680, H681 (See H694 option also.)</td>
</tr>
<tr>
<td>24 Cr. Hr.</td>
<td>6 Cr. Hr.</td>
<td>6 Cr. Hr.</td>
</tr>
</tbody>
</table>

### SPRING

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>H561</td>
<td>Meaning and Form in HCI [M 6pm] Larew</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>I501</td>
<td>Intro. to Informatics for HCI [W 6pm] Chattopadhyay</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>H566</td>
<td>Exp. Design for Ubiquitous Computing [R 6pm] Voida, S</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>H564</td>
<td>Prototyping for Interactive Systems [W 10am]Voida,S/Ough(O)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>H680</td>
<td>HCI Professional Practice 1 [T 6pm] Altom/Ough (O)</td>
<td>0</td>
</tr>
</tbody>
</table>

#### Recommended Electives (Select One):
- I575 Informatics Research Design [T 6pm] Niu
- H554 Ind Study in HCI – Arranged
- Other Informatics course

### SUMMER

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>H541</td>
<td>Interaction Design Practice [R 6pm] Bolchini/Shah (O)</td>
<td>0</td>
</tr>
<tr>
<td>H543</td>
<td>Interaction Design Method [M 6pm] Wilson (O)</td>
<td>0</td>
</tr>
<tr>
<td>H565</td>
<td>Collab. &amp; Social Computing [T 6pm] Voida, A</td>
<td>0</td>
</tr>
</tbody>
</table>

#### Elective or Internship**

### FALL

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>H563</td>
<td>Psychology of HCI [W 6pm] MacDorman/Green (O)</td>
<td>0</td>
</tr>
<tr>
<td>H681</td>
<td>HCI Professional Practice 2 [R 6pm] Altom/Ough (O)</td>
<td>0</td>
</tr>
</tbody>
</table>

#### Recommended Electives (Select One):
- I575 Informatics Research Design [M 6pm] Niu
- H624 Advanced Seminar 1 for HCI* [T 9am] Voida, A
- H554 Ind Study in HCI – Arranged

### FINAL PROJECT REQUIREMENTS

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

1. **H680 HCI Professional Practice 1 (3 cr.).**
   - Prerequisites: H541, H543, H561, I501, H565, H566
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, 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.
   - Incompletes are **NOT** permitted.
   - The successful completion of the H680-H681 sequence (along with all other coursework) guarantees timely graduation for all students.

**H694 Final Project/Thesis Option:** Upon permission granted by a faculty member who commits to be a thesis or final project 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 project/thesis supervisor for at least two consecutive semesters. H694 will be considered completed only after the final project/thesis delivered has been approved by the supervisor 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 additional research methods course as an elective as appropriate for the completion of thesis.
- Also note that if you are strictly doing a H694 Final Project (and NOT the Thesis), I575 is **NOT** required.

Detailed schedule of each course is updated and published every semester on the [IUPUI Registrar website](http://www.registrar.iupui.edu).
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

**Recommended Elective Courses**

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

#### INFORMATICS
- I505 Informatics Project Management
- 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 User Experience Architectures
- I605 Social Foundations of Informatics

#### MEDIA ARTS AND SCIENCE
- N502 Digital Media Motion and Simulation Methods
- N504 Advanced Interactive Design Applications
- N553 Independent Study
- N585 Serious Gaming
- N585 Topics Courses in Media Development and Production (several also available during the Summer – check Summer schedule in early Spring semester)

#### 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

### Recommended 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 Interpreive 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