Human-Computer Interaction (HCIN) Courses

**HCIN 5100 [0.5 credit]**
*Fundamentals of HCI Design and Evaluation*
Strategies and practices in HCI design and evaluation. Students will learn to perform studies in user interface analysis and design, read research literature critically, distill important points from readings, summarize, write papers, design user interfaces and present their work. Precludes additional credit for PSYC 5105 (no longer offered).

**HCIN 5200 [0.5 credit]**
*Software and User Interface Development*
Design and development of user interfaces for software systems based on principles for supporting user interaction, with emphasis on frameworks, tools, and processes for user interface development.

**HCIN 5300 [0.5 credit]**
*Emerging Interaction Techniques*
Advanced interaction styles and their associated technologies. Topics may include hand held and gestural interactions, ubiquitous computing, deformable user interfaces, physiological computing and tangible user interfaces.

**HCIN 5400 [0.5 credit]**
*Experimental Methods and Statistics*
An introduction to the design of experiments and the statistics needed to interpret data. Also listed as CGSC 5101.

**HCIN 5403 [0.5 credit]**
*Research methods in HCI*
An introduction to quantitative and qualitative research methods in HCI. Students will acquire skills in collecting and analyzing HCI data, presenting the findings and specifying practical implications. Precludes additional credit for PSYC 5106 (no longer offered).

**HCIN 5404 [0.5 credit]**
*Design Research Methods*
Critical analysis of research methods in design and disciplines contributing to design including anthropology, psychology, sociology, and business. Application areas include advanced materials and manufacturing processes, advanced visualization, product interaction design, extreme environments, sustainable design, design and culture, design management, and human-oriented design. Also listed as IDES 5102.

**HCIN 5405 [0.5 credit]**
*Methodologies for Discrete-Event Modelling and Simulation*

**HCIN 5406 [0.5 credit]**
*Object-Oriented Software Development*
Issues in modeling and verifying quality and variability in object-oriented systems. Testable models in model-driven and test-driven approaches. System family engineering. Functional conformance: scenario modeling and verification, design by contract. Conformance to non functional requirements: goals, forces and tradeoffs, metrics. Also listed as COMP 5104.

**HCIN 5900 [0.5 credit]**
*Directed Studies*
Independent study under supervision of a member of the Human/Computer Interaction faculty. Students are required to obtain their supervisor's written approval prior to registration and are limited to one such course in their program. Prerequisite(s): Enrolment in the HCI program and permission of the program Director.

**HCIN 5901 [0.5 credit]**
*Advanced Topics*
Topics not ordinarily treated in the regular course program due to their contemporary subject matter. The choice of topics varies from year to year. Details will be available at the time of registration.

**HCIN 5909 [2.5 credits]**
*Thesis in Human-Computer Interaction*

Summer session: some of the courses listed in this Calendar are offered during the summer. Hours and scheduling for summer session courses will differ significantly from those reported in the fall/winter Calendar. To determine the scheduling and hours for summer session classes, consult the class schedule at central.carleton.ca

Not all courses listed are offered in a given year. For an up-to-date statement of course offerings for the current session and to determine the term of offering, consult the class schedule at central.carleton.ca