

NEW Course Offering for Winter 2008

COMP-4767

The Department of Computer Science at Memorial University, St. John's campus, is pleased to offer the course, **COMP-4767 - Information Visualization and Applications** in the Winter 2008 semester.

Information Visualization and Applications focuses on the design and implementation of interactive visualization techniques for the analysis, comprehension, exploration, and explanation of large collections of abstract information. Topics to be covered include principles of visual perception, information data types, visual encodings of data, representations of relationships, interaction methods, understanding user goals and tasks, and evaluation techniques. Case studies of accepted techniques and the current state-of-the-art in information visualization will be presented. The format will be lecture in slot 5 (12:00 to 12:50 p.m. on Mondays/Wednesday/Fridays) in EN-2022.

Prerequisite: Computer Science 2760 and Computer Science 3719.

Course Outline:

- Visual perception and the human element in information visualization
- Norman's stages of action framework
- Gestalt principles
- Information data types
- Visual encodings of abstract information
- Visual encodings of relationships within information
- Interacting with information visualization applications
- Understanding user goals and tasks
- Introduction to evaluation methods for information visualization

Method of Evaluation: Assignments 40%; Midterm 20% and Final Exam 40%.

As online registration of this course will not be available until January, please email the instructor to indicate your interest in this course. Classes will begin in the week of January 7, 2008.

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