

Potential for Academic Credit:

Some students already registered in graduate programs may be eligible for academic credit for their participation in the NSI. In order to do so, they would have to meet further requirements, including: being currently enrolled in a graduate program, paying tuition for the credit at their home institution, and completing a project report on a statistical & GIS analysis that they conduct as a part of the NSI. The report would be marked by two of the NSI facilitators and averaged for the course grade. Students from other universities choosing this option would register in a selected topics course through the University of Regina, but pay tuition to their home university at the current rate for three credit hours. The appropriate transfer credit agreement (see below) would also have to be filled-out between the home university and the University of Regina as the host institution. Please inform us if you are interested in taking advantage of this option.

For students in graduate studies at the University of Saskatchewan:

<http://www.uregina.ca/gradstudies/forms/suga.pdf>

For students in graduate studies at another university in Western Canada:

http://www.uregina.ca/gradstudies/forms/western_deans.pdf

For all other students in graduate studies at a Canadian university:

<http://www.uregina.ca/gradstudies/forms/cutga.pdf>

Accommodations and Fitness Facilities:

Participants in the NSI have a unique opportunity. The University of Regina hosted the Jeux de Canada Games in 2005. In support of the games, very modern accommodations and world-class fitness facilities have been constructed on campus recently. NSI participants staying in the new student residences will not only be able to take advantage of these modern accommodations, but also will have free access to these world-class fitness facilities.

The cost for the NSI is a non-refundable reservation fee of \$150 (GST included), \$75 for students. Funds are also available to help subsidize participants' travel and accommodations (based upon need). In addition, inexpensive newly-constructed university housing is available to keep costs to a minimum (approximately \$47 per night).



The planned dates for
the NSI this year are:
June 21-27, 2009

For Further Information Please Contact:

Attn: NSI, Department of Psychology

Tel:
(306) 585-4221 or (306) 585-4157

Fax:
(306) 585-5429

E-mail:
psychology.dept@uregina.ca

Website:
<http://www.uregina.ca/arts/NSI/>



UNIVERSITY OF
REGINA

University of Regina
3737 Wascana Parkway
Regina, Saskatchewan
S4S 0A2 Canada

Faculty
of
Arts

National Summer Institute for Statistical & GIS Analysis of Health Data



University of Regina • Summer 2009

June 21-27, 2009



UNIVERSITY OF
REGINA

Sponsored by SSHRC and Statistics Canada

National Summer Institute for Statistical & GIS Analysis of Health Data

University Of Regina
Summer 2009

With the support of the **Social Science and Humanities Research Council of Canada (SSHRC)** and **Statistics Canada**, the University of Regina has developed an institute for the advanced training of participants in the statistical and geographical information systems (GIS) analysis of health data. (Co-sponsored by Sociology, Psychology and Geography departments).

The institute is open to approximately 50 participants from across the country, including academics, researchers, graduate students, and practitioners in the field (such as nurses and health analysts.)

The **National Summer Institute (NSI)** will be an intensive, hands-on workshop over seven days. Participants should have some background preparation in statistics, such as a university course. However, no background in GIS (mapping data) is required.



The three main purposes of the NSI are:

- 1) to train participants in using Statistics Canada data-sets (particularly for health data),
- 2) to upgrade their statistical skills, and
- 3) to introduce them to GIS procedures

The NSI will be taught at the level most appropriate for the participants. There will be no examinations or tests, and use of formulae or equations will be minimal. The focus will be on the applied use of these quantitative procedures, from a non-mathematical basis.

Special Guest Speakers for the 2009 NSI are:

Stats Speaker:
Dr. Mary Hampton
University of Regina
Aboriginal Health Issues

GIS Speaker:
Dr. Tom Koch
University of British Columbia
Re-examining John Snow's Cholera Pandemic Map

A tentative list of NSI course topics follows (we reserve the right to revise this list):

Statistical Topics:	GIS Topics:
Accessing Statistics Canada's data	Introduction to Geographic Information Systems
Data Liberation Initiative	Spatial Information and Data
Multidimensional data-sets	Mapping Health Information
Using Beyond 20/20	Deriving New Information
Weighting Cases	Spatial Clustering of Health Events
Bootstrap Estimation of Variances	Address Geocoding
Multiple Linear Regression	Analyzing Environmental Hazards
Binary Logistic Regression	The Diffusion of Infectious Diseases
Confirmatory Factor Analysis	The Ecology of Vector-Borne Disease
Structural Equation Modeling	Analyzing Access to Health Services
Hierarchical Linear Modeling I	Locating Health Services
Hierarchical Linear Modeling II	Mapping and Analyzing Temporal Change