

University of Manitoba
Graduate Courses in Community Health Sciences
FALL 2018

CHSC 7232 Families and Care Across the Life Course
(CRN = 18100)

(Mondays, 1300 – 1550 hours; Instructor: Karen Duncan)

Advanced study of the provision of care by family members and friends for dependent children and adults with long-term care needs in the context of increasing family diversity and population aging. Topics include theoretical perspectives on care, the gendered nature of care, consequences of care and policy implications. Prerequisite: Students outside CHS require instructor permission.

CHSC 7300 Health Policy and Planning
(CRN = 11846)

(Fridays, 0900 - 1120 hours, 0800 – 0850 hours optional tutorial; Instructor: Les Carrothers)

This course defines health policy and describes the planning and decision-making process. Case studies will be used to illustrate and critique the substance, process and outcome of policy papers that address contemporary policy issues. Prerequisite: Students outside CHS require instructor permission.

CHSC 7310 Epidemiology of Health Care
(CRN = 11009)

(Wednesdays, 1300 – 1520 hours; Instructors: Noralou Roos, Marni Brownell)

This course will discuss the advantages and disadvantages of using large administrative data bases for research purposes. Substantive topics dealt with include: population health and the role of medical care, assessing system performance, quality of care and outcomes, short- and long-term outcome studies, technology assessment, and use of pharmaceuticals. Policy implications are considered. Students are required to learn SAS, a computer programming language and to analyze and interpret data for the term project. Prerequisite: Instructor permission is required.

CHSC 7330 Cultural Perspectives on Illness and Medical Practice
(CRN = 14867)

(Mondays, 1300 – 1550 hours; Instructor: Andrew Hatala)

The objective of this course is to make students aware of the ways in which disease, illness, and medical practice are socially and culturally mediated. The course will examine cultural influences on the experience and expression of illness and consider the medical practitioner's role in the development and provision of culturally responsive health care. Prerequisite: Students outside CHS require instructor permission.

CHSC 7390 Health Promotion (CRN = 18082)

(Thursdays, 0900 - 1200 hours; Instructor: Sharon Bruce)

Examination of the history, theories, principles, and settings for health promotion. Assumptions underlying the discipline and how they affect practice are explored. Different conceptualizations of health and implications for practice are examined. Recent health promotion strategies are critically analyzed using case studies. Prerequisite: Students outside CHS require instructor permission.

CHSC 7400 T03 Advanced Statistical Methods in Spatial Epidemiology (CRN = 17765)

(Mondays, 0900 – 1150 hours; Instructor: Mahmoud Torabi)

The course describes methods for the analysis of spatially indexed epidemiological data. Emphasizes methods for the analysis and visualization of three basic types of spatial data: areal data, point (geostatistical) data, and point processes. Covers four major topics: clustering and cluster detection, disease mapping, spatial regression, and an introduction to geographical information systems.

CHSC 7400 T20 Seminar in Foundations of Disease Analytics Part A (spanned fall & winter)

(CRN = 16899)

(Fridays, 1330 - 1620 hours; Instructor: Lisa Lix)

This course will expose Visual and Automated Disease Analytics (VADA) Program students to selected topics in substantive and methodological topics associated with visualization and automated analytics for large-scale chronic and infectious disease data. This seminar-style course is participatory in nature.

CHSC 7500 Core Concepts in Public Health (CRN = 11309)

(Tuesdays, 0900 – 1150 hours; Instructor: Brenda Elias)

Public Health is a multi-disciplinary field of inquiry and practice that addresses the social and biological dimensions of population health. The course provides students with an introduction to this field and examines historical and current theoretical debates relating to the science and art of protecting, promoting and restoring the health of the population through organized societal activity. Prerequisite: Instructor permission is required for students not admitted to the CHS Master of Public Health program.

CHSC 7520 Principles of Epidemiology (CRN = 11010)

(Wednesdays, lecture 1030 – 1155 hours, 1330 – 1450 hours; Fridays tutorial optional; 0930 – 1130 hours; Instructor: Nathan Nickel)

This course will introduce the basic concepts and methods of epidemiology, including the definition and measurement of health status and health determinants in populations, assessing health risks and inferring causation, and issues in the design and analysis of population health studies. Prerequisite: Students outside CHS require instructor permission.

CHSC 7610 T09 Research Data Centre Research Methods Part A (CRN = 16522)

(Fridays, every other, 0900 - 1120 hours; Instructor: Shahin Shooshtari)

This course will introduce the processes and methods involved in using Statistics Canada's confidential master data files at the Research Data Centre (RDC). Students will gain skills in conducting secondary analyses in order to address important health and social policy research questions. Pre or co-requisite: Graduate level biostatistics course or equivalent.

CHSC 7710 Social Aspects of Aging (CRN = 11852)

(Tuesdays, 1300 – 1555 hours; Instructor: Kerstin Roger)

This course is an advanced seminar designed to examine current social issues in aging. The course is organized around selected topics related to aging. Where possible, the Canadian experience will be compared to international trends and diversity will be highlighted. The first section is a review of the field of gerontology, ageism, demographic trends, theoretical perspectives and methods and the second section explores contemporary social issues. This course is a required course for the Graduate Specialization in Aging Certificate. Prerequisite: Students outside CHS require instructor permission.

CHSC 7730 Topics in Health Services Research Part A (CRN = 11858)

(Mondays, 0900 – 1150 hours; Instructor: Malcolm Doupe)

This course will expose students to select health services research topics that are particularly relevant in Manitoba and Canada. Students are expected to actively engage in seminars led by health services researchers and decision-makers, and also provide informative presentations in their own area of research. Students will also gain Knowledge about various communication and knowledge translation strategies. Pre and/or Co-Reqs: CHSC 7320 and one of CHSC 7310 or CHSC 7300. Students outside CHS require instructor permission.

CHSC 7738 Qualitative Research Methods in Community Health Sciences (CRN = 18101)

(Tuesdays, 1300 – 1550 hours; Instructor: Deborah McPhail)

The purpose of this course is to provide students with fundamental knowledge on theoretically informed qualitative inquiry for applied health services and health policy research. The course will include an introduction to social theory and respective qualitative methodologies best suited for population health, health services, social and cultural determinants of health, and health policy research. By the end of the course, students will have an understanding of the principles and practices involved in: integrating theory and qualitative methods; community engagement in qualitative research, including indigenous methodologies and diverse cultural contexts; the design of a theory driven qualitative research study; various ways of generating and analyzing qualitative data; integrated Knowledge Translation; and ethics, among other topics. Prerequisite: Students outside CHS require instructor permission.

CHSC 7810 Biostatistics for the Health and Human Sciences (CRN = 12349)

(Tuesdays/Thursdays, 1730 – 2020 hours; Instructor: Ian Clara)

An introduction to statistical ideas and techniques for health sciences and human research. Describing data, patterns in data, the normal distribution. Principles of estimation and principles of hypothesis testing. Principles and practice of the major statistical tests (t tests, analysis of variance, Chi squared tests, correlation and regression).

Nonparametric statistical techniques. The use of statistical software to carry out statistical analysis. Analytical decision strategies. Prerequisite: Students outside CHS require instructor permission.

CHSC 7820 Biostatistics for Community Health Sciences (CRN = 11853)

(Thursdays, 1030 - 1150 hours, 1300 – 1420 hours, computer lab 1430 – 1550 hours; Instructor: Depeng Jiang)

The course will cover techniques of research design and analysis for community health researchers. Topics include: principles of experimental design, study size determination, statistical software as an analytical tool, techniques for the analysis of continuous outcomes, analysis of variance for multi-way, factorial and split-unit experiments, and multiple regression and general linear models. Introduction to more advanced statistical methods including logistic regression and survival models. Prerequisites: 3 credit hour statistics course within five years. Instructor permission is required.

CHSC 7860 Methods and Concepts for Community Health Sciences (CRN = 11854)

(Tuesdays, 1000 – 1220 hours; Instructor: Tracie Afifi)

The course is designed to provide a practical introduction to qualitative, quantitative, and mixed method approaches used in health research. The emphasis in the course will be on developing research questions, selecting appropriate methods, and writing a research proposal. Co-requisites: 1) CHSC 7520 and ONE of the following: CHSC 7820 or CHSC 7810 or CHSC 7738. Students outside CHS require instructor permission.

CHSC 7870 Health Survey Research Methods (CRN = 17766)

(Tuesdays, 1300 – 1520 hours; Instructor: Brenda Elias)

Students critically examine the use of health survey methodology within epidemiology. They also learn to apply survey methodology, as a means to gain a strong appreciation of the reflective, theoretical and analytical thinking required to successfully design and implement epidemiological health surveys. Prerequisites: CHSC 7520. Students outside CHS require instructor permission.

CHSC 8600 Senior Seminar in Community Health Sciences (CRN = 11855)

(Tuesdays, 1000 – 1220 hours; Instructor: Les Roos)

This seminar course is designed to engage senior students in the field of health research. The emphasis in the course will be to discuss great research studies that have changed or challenged the way we think about health or conduct research, seminal research endeavors from Manitoba, research studies that were not successful, and controversies and the role of media in health research. A focus of the course will be to discuss great research projects, programs, and institutions. This is an advanced course intended for Ph.D. students. Prerequisites: CHSC 7810 or 7820 or 7738, CHSC 7860. Instructor permission is required for students outside the Community Health Sciences PhD program.

FMLY 7800 Family Violence (CRN = 14879)

(Mondays, 1000 – 1225 hours; Instructor: Douglas Brownridge)

This course will expose students to select health services research topics that are particularly relevant in Manitoba and Canada. Students are expected to actively engage in seminars led by health services researchers and decision-makers, and also provide informative presentations in their own area of research. Students will also gain Knowledge about various communication and knowledge translation strategies. Pre and/or Co-Reqs: CHSC 7320 and one of CHSC 7310 or CHSC 7300. Students outside CHS require instructor permission.