

November 7, 2003

Professor Carolyn Tuohy
Vice-President and Associate Provost
Room 206, Simcoe Hall
27 King's College Circle
University of Toronto

Dear Professor Tuohy:

At its meeting of October 28, 2003, the Council of the School of Graduate Studies approved the following motion:

THAT SGS Council approve the proposal for a Collaborative Master's and Ph.D. Program in Health Services and Policy Research, effective January 2004. The new collaborative program is to be housed within Division IV for administrative purposes.

The motion sheet and supporting documentation are attached. All the participating departments are housed within Division IV. Division IV Executive Committee approved the proposal on October 7, 2003.

On behalf of the Council of the School of Graduate Studies, I am presenting this item to Governing Council committees, for information.

Yours sincerely,

Jane Alderdice
Secretary to SGS Council
and Coordinator of Policy, Program and Liaison

Encl.
/smr

c.c.	D. Affonso	U. de Boni	R. Cockerill	T. Chan	A. Drummond
	C. Johnston	L. Lemieux-Charles		R. MacGregor	M. Verrier
	D. Wasylenki	L. Yee	S. Zaky		

Motion

School of Graduate Studies Council Tuesday, October 28, 2003

Item 6.

MOTION (/) **THAT** SGS Council approve the proposal for a Collaborative Master's and Ph.D. Program in Health Services and Policy Research, effective January 2004. The new collaborative program is to be housed within Division IV for administrative purposes.

See the proposal, executive summary and memorandum of agreement attached.

NOTE:

Division IV Executive Committee approved this proposal at its meeting of October 7, 2003.

With SGS Council's approval this item will go to Governing Council committees for information, and to the Ontario Council on Graduate Studies for a standard appraisal.

UNIVERSITY OF TORONTO

Brief for the Standard Appraisal

of the

Collaborative Master's and Ph.D. Program
in

HEALTH SERVICES AND POLICY RESEARCH

Submitted to the
Ontario Council on Graduate Studies
October 2003

Executive Summary

The Ontario Training Centre in Health Services and Policy Research (OTC) is a consortium of six Ontario Universities that have come together to improve graduate education for students who are interested in becoming health services and policy researchers. It includes Lakehead, Laurentian, McMaster and York Universities as well as the Universities of Ottawa and Toronto. Funding was obtained from the Canadian Health Services Research Foundation and the Canadian Institutes of Health Research (\$2.1 million from 2001-2008; 80% to be spent on student stipends) to develop the OTC.

The OTC's overall goal is to increase capacity in health services and policy research in Ontario through innovative graduate training programs that build on existing strengths in university and decision making environments. The **Collaborative Graduate Program in Health Services and Policy Research** will fulfill the University of Toronto's commitment to the OTC. The graduate departments of Health Policy, Management and Evaluation (MSc, PhD), Rehabilitation Science (MSc), and Pharmaceutical Sciences (MSc, PhD), and the Faculty of Nursing (PhD) will participate in the Collaborative Program.

The objectives of the Collaborative Program are to enhance the quality and breadth of trans-disciplinary training in health services and policy research by providing students with access to learning experiences that cut across faculties, disciplines and departments. All students must complete one three month Research and Policy Practicum, and participate in one Summer Institute hosted by the OTC. In addition, students must demonstrate knowledge of Canada's health care system, health services and policy research tools, and theories of population health, knowledge production and knowledge transfer by completing relevant courses. Thesis research must be completed under the supervision of a Core Faculty member of the Collaborative Program and must address the theme of "health services and policy research".

Sufficient resources to support the operation and administration of the Collaborative Program are provided by the Canadian Institute of Health Research and the Canadian Health Services Research Foundation. Over the next six years, \$2.1 million dollars has been pledged, 80% of which is to be spent on student stipends by the third year. Each participating University will receive funds to cover administrative costs, advertising and recruitment costs, new course preparation and faculty training, for example, on developing distance education courses. Additional monies will be available for the development of the Summer Institutes, including funds to support student and faculty travel costs.

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1. Introduction and Rationale

Increasing the number of health services and policy researchers to address critical issues in effective and efficient health care delivery has been identified as a high priority by national research funding agencies. Ontario spends more than 45% (MOHLTC, 2002) of its budget on health care delivery and, yet, very little research is done to understand the effectiveness of health policies, how the policy making process could be improved, and how well health-related services are delivered, or to explore methods of improving the effectiveness and efficiency of health care delivery.

In part, this knowledge gap exists because there are too few health services and policy researchers and, historically, there has been little interaction between these researchers and policy makers. Additional contributory factors include a lack of understanding of the policy making processes by many researchers, and a lack of understanding on the part of many policy and decision makers of research processes; ineffective strategies for exchanging knowledge between the policy and research arenas; and little appreciation of each other's roles. Researchers interested in health services and policy issues tend to apply the dominant conceptual models and research paradigms of their disciplines to health services problems. In fact, the issues confronting health policy and health services delivery often require creative solutions that can draw on the research approaches developed by a variety of disciplines.

The Ontario Training Centre in Health Services and Policy Research (OTC) is a consortium of six Ontario Universities that have come together to improve graduate education for students who are interested in becoming health services and policy researchers. It includes Lakehead, Laurentian, McMaster and York Universities as well as the Universities of Ottawa and Toronto. Funding was obtained from the Canadian Health Services Research Foundation and the Canadian Institutes of Health Research (\$2.1 million from 2001-2008; 80% to be spent on student stipends) obtained to develop the OTC.

These institutions are charged with developing research capacity in areas where such capacity is currently lacking in Canada. The OTC's overall goal is to increase capacity in health services and policy research in Ontario through innovative graduate training programs that build on existing strengths in university and decision making environments. The Collaborative Graduate Program in Health Services and Policy Research will fulfill the University of Toronto's commitment to the OTC. The graduate departments of Health Policy, Management and Evaluation (MSc, PhD), Rehabilitation Science (MSc), and Pharmaceutical Sciences (MSc, PhD), and the Faculty of Nursing (PhD) will participate in the Collaborative Program.

2. Objectives

The objectives of the Collaborative Graduate Program in Health Services and Policy Research are to: (1) provide training in health services and policy research for graduate students (Master's and PhD); (2) enhance the quality and breadth of transdisciplinary training in health services and policy research by providing learners with access to learning experiences (e.g. courses, summer institutes, practicum experiences, supervisors and supervisory committee members, and mentors) that cut across universities, faculties, disciplines, departments and existing graduate programs; and (3) include decision makers as active partners in teaching, program and curriculum planning and the provision of field placements for students.

The Collaborative Program will provide a focus for those students with an interest in health services and policy research to interact and learn from each other in a manner which may not be available in their home departments or faculties. These students will also be able to establish provincial connections through OTC linkages during the Summer Institute and practicum placements. Moreover, as the OTC develops courses, and these courses are approved for delivery through the University of Toronto, the range of course options for Collaborative Program students will be increased.

Interest in the Collaborative Program is anticipated to be high given greater funding for health services research by the Canadian Institutes of Health Research (CIHR) and the Canadian Health Services Research Foundation (CHSRF), and the relative lack of trained health services researchers. CIHR/CHSRF support for participating students and administrative costs of the OTC was granted with the recognition of this shortage of trained health services researchers.

In sum, the purpose of the Collaborative Program is to recruit high quality students with an interest in the area, exposing them to interdisciplinary approaches and a broad view of the subject matter well beyond what they could achieve in the home program alone. The Collaborative Program will also serve as a vehicle to connect the many scholars across the University of Toronto who are involved in health services research.

The OTC anticipates a minimum total enrolment of 54 funded students by the end of the 6th year of funding across the 6 sites. This includes a target of two PhD students and one MSc student funded through the OTC enrolled in each University, in each of the first three years of operation. Additional students, with funding from other sources, will be eligible for admission to the Collaborative Program on the basis of the excellence of their application. An objective is to have at least one representative from each participating program (M.Sc or Ph.D.) admitted each year to the Collaborative Program. Students who have completed the Collaborative Program at the Masters level, will not be eligible to enroll in the Program at the Ph.D. level.

3. Admission requirements

Students in the Collaborative Program will apply and must be admitted into participating graduate units (“home departments”) and follow a program of studies acceptable to both the home department and the Collaborative Program. Students who have completed the Collaborative Program at the Masters level will not be eligible to participate at the PhD level.

Admission decisions to the Collaborative Program will be made by the Program’s Admissions Committee. The Admissions Committee will include the Collaborative Program Director and a representative of each of the participating units (see Section 6. Administration).

ADMISSION TO MASTERS’ PROGRAM

M.Sc. applicants to the Collaborative Program will be required to meet the admission requirements of their home department. This will include the following: 1) an overall B+ average in the last two years of an appropriate four year University of Toronto’s bachelor’s degree, or its equivalent from a recognized university; and 2) an autobiographical letter describing why they want to become a health services and policy researcher.

ADMISSION TO Ph.D. PROGRAM

Doctoral applicants to the Collaborative Program will be required to meet the admission requirements of their home department. This will include the following: 1) academic excellence in completed graduate courses (B+ average), scholarships and academic awards received; 2) aptitude for health services and policy research (letter of recommendation from a previous professor or thesis supervisor, commenting on the student’s academic abilities and likelihood for success as a health services researcher); 3) career plans (autobiographical letter describing why they want to become a health services researcher and their career plans); and 4) proposed plan of study in the Collaborative Program.

4. Program requirements and common learning experience

All students enrolled in the Collaborative Program must complete one Research and Policy Practicum (see Appendix IV) and participate in at least one Summer Institute hosted by the OTC. The Summer Institute is a five-day workshop that takes place at one of the participating schools. All students are required to participate and will be graded on a Credit/No Credit (CR/NCR) basis. The first Summer Institute will be hosted by

Lakehead University in the summer of 2004. The focus will be mental health and homelessness. Further details are currently being developed.

It is required that completion of the practicum and participation in the Summer Institute will be additional to students' customary course of studies. Participation in the Summer Institute will provide the common learning experience customary to Collaborative Programs.

PROGRAM REQUIREMENTS – MASTERS' STUDENTS

1. Completion of all degree requirements within five years.
2. The writing of a thesis under the supervision of a Core Faculty member of the Collaborative Program in the student's home department and its defence before an examination committee appointed in consultation with the Collaborative Program and the home department. The dissertation must address the theme of "health services and policy research".
3. The completion of course work which will demonstrate knowledge of Canada's health care system, health services and policy research tools, and theories of population health, knowledge production and knowledge transfer according to the requirements of the Collaborative Program and the requirements of the graduate program in the home unit.

It is the objective of the Collaborative Program to enrich the graduate experience without unduly extending the duration of students' graduate education. It is anticipated that most competencies will be completed as part of a student's home program, but it is recognized that some students may be required to complete additional course work.

PROGRAM REQUIREMENTS – Ph.D. STUDENTS

1. Completion of all degree requirements within six years.
2. The writing of a dissertation under the supervision of a Core Faculty member of the Collaborative Program in the student's home department and its defence before an examination committee appointed by the School of Graduate Studies. The dissertation must address the theme of "health services and policy research".
3. The completion of course work which will demonstrate knowledge of Canada's health care system, health services and policy research tools, and theories of population health, knowledge production and knowledge transfer according to the requirements of the Collaborative Program and the requirements of the graduate program in the home unit.

It is the objective of the Collaborative Program to enrich the graduate experience without unduly extending the duration of students' graduate education. It is anticipated that most competencies will be completed as part of a student's home program, but it is recognized that some students may be required to complete additional course work.

Appendix II describes overall course requirements and clarifies which departments will require students to complete courses in addition to those which are designated as part of the home program. All participating departments are committed to making relevant courses available to students of the Collaborative Program. A Memorandum of Agreement established by the departments participating in the Collaborative Program is available in Appendix I.

Completion of program requirements

The collaborative program Director and/or Program Committee (see Memorandum of Agreement) is responsible for certifying the completion of the collaborative program requirements. The home graduate unit is solely responsible for the approval of the student's home degree requirements.

5. Participation of home graduate programs

All degree programs taking part in the Collaborative Program in Health Services and Policy Research have at least one graduate faculty member whose interests and research expertise encompass or relate to that of the Collaborative Program subject area. The faculty member or members designated as Core Faculty in the Collaborative Graduate Program in Health Services and Policy Research will be available to students registered in their home units as advisors or supervisors. In addition, core faculty contribute to the teaching of health services and policy courses, the supervision of the research practicums and the Summer Institutes. Faculty are not required to participate every year and, in some cases, may simply remain available to interested students for advice and guidance.

The list of the collaborative program's core faculty members is available in Appendix III.

6. Administration

The Collaborative Program has an approved Director. It also has a Program Committee composed of a faculty representative from each participating graduate unit. The Program Committee initiates and recommends the appointment of a new Director to the Dean of SGS, after consultation with chairs/directors of participating graduate units. The Dean of the School of Graduate Studies approves appointments of Directors of Collaborative Programs. The initial term normally is three years, with subsequent terms normally up to five years. An appointment is renewable upon recommendation of the Program

Committee in consultation with the chairs/directors of participating graduate units, and approval of the Dean of SGS.

The Director and the Program Committee are responsible for the approval of admissions to the collaborative program, and are responsible for approving the completion of collaborative program requirements, including the granting of the collaborative program designation. The Committee and Director also recommend changes to the program, as required, approve advertising, etc.

Director

Rhonda Cockerill, HPME, 3 year term

Program Committee members

Peter Coyte, HPME, 3 year term

Paula Goering, HPME, 3 year term

Diane Doran, Nursing, 3 year term

Linda Lee O'Brien Pallas, Nursing, 3 year term

Susan Jaglal, Rehabilitation Sciences, 3 year term

Heather Boon, Pharmaceutical Sciences, 3 year term

7. Resource Issues

Sufficient resources to support the operation and administration of the Collaborative Program are provided by the Canadian Institutes of Health Research and the Canadian Health Services Research Foundation. Over the next six years, \$2.1 million dollars has been pledged, 80% of which is to be spent on student stipends by the third year. Each participating University will receive funds to cover administrative costs, advertising and recruitment costs, new course preparation and faculty training, for example, on developing distance education courses. Additional monies will be available for the development of the Summer Institutes, including funds to support student and faculty travel costs. These monies will flow through the administrative "home" for the Collaborative Program.

Initially, the Collaborative Program will be administered through the Graduate Department of Health Policy, Management and Evaluation (the location of the Program Director). This may change depending on the graduate appointment of the Program Director.

8. Registration Information/Enrolment Projections

The Ontario Training Centre in Health Services and Policy Research anticipates a minimum total OTC funded enrolment of 54 students by the end of the 6th year of funding; the University of Toronto anticipates enrolling (with funding from the OTC) a

minimum of three students per year in its Collaborative Program. The mix of these students (MSc versus PhD, home Department) will be determined by the Program Committee on the basis of the strengths of the applicants. Additional students, with funding from other sources, will be admitted to the Collaborative Program on the basis of the excellence of their application. An objective is to have at least one representative from each participating program admitted each year to the Collaborative Program.

**School of Graduate Studies
University of Toronto**

**COLLABORATIVE [M.N./M.Sc./PH.D.] PROGRAM IN
HEALTH SERVICES AND POLICY RESEARCH**

MEMORANDUM OF AGREEMENT

[MAY, 2003]

Memorandum of Agreement concerning a Collaborative Graduate Program in ***Health Services and Policy Research*** among the graduate units of the Faculty of Nursing (Ph.D.), and the Departments of Health Policy, Management and Evaluation (M.Sc./Ph.D.), Rehabilitation Science (M.Sc.), and Pharmaceutical Sciences (M.Sc., Ph.D.).

1. Rationale

In order to develop cooperative and multidisciplinary graduate education and research in health services research and policy, the following collaborating units agree to participate in a Collaborative Program at the M.Sc., and Ph.D. levels:

Faculty of Nursing
Nursing, Ph.D.

Graduate Department of Rehabilitation Science
Rehabilitation Science, M.Sc.

Department of Health Policy, Management and Evaluation
HPME, M.Sc./Ph.D.

Department of Pharmaceutical Sciences
Pharmaceutical Sciences, M.Sc./Ph.D.

2. Objectives

The objectives of the Collaborative Program are to enhance the quality and breadth of transdisciplinary training in health services and policy research by providing students with access to learning experiences (e.g. courses, summer institutes, practicum experiences and supervisors and supervisory committee members and mentors) that cut across faculties, disciplines and departments.

3. Registration and Program Completion

Each graduate student in the Program shall be enrolled in a participating degree program in the graduate unit in which the research is conducted, which is known as the home graduate unit. The student shall meet the admission requirements of both the home graduate unit and the Collaborative Program. The student shall register in the School of Graduate Studies through the home graduate unit and shall:

- a) meet all respective degree requirements of the School of Graduate Studies and the participating graduate unit; and
- b) meet the requirements of the Collaborative Program.
- c) With the approval of the Collaborative Program Director, “Completed the Collaborative Graduate Program in Health Services and Policy Research” shall be shown on the transcript, upon certification that all requirements of the Collaborative Graduate Program in Health Services and Policy Research have been fulfilled.

4. Role of Participating Graduate Units

Each participating graduate unit shall retain its statutory control over admissions and home program requirements, and its statutory duty to provide adequate research supervision by a member of the graduate faculty in the unit. The home graduate unit shall recommend the granting of the degree. Students in the Collaborative Program normally shall be supervised by a member of the Collaborative Program’s core faculty, or have a core faculty member as a member of the supervisory committee (see Appendix II of the proposal). Participating graduate units will include reference to the Collaborative Program in the SGS Calendar entry, on the department website, and in other related advertising of the home program. Core faculty members shall remain available to contribute to the collaborative program through teaching of the core course/s and participating in the delivery of seminar series and other common learning elements. Not all faculty members participate each year and, in many cases, may simply remain available to interested students. Some faculty may teach courses in the subject area of the collaborative program in the home program.

5. Program Director

The Program Committee initiates and recommends the appointment of a new Director to the Dean of SGS, after consultation with chairs/directors of participating graduate units. The Dean of the School of Graduate Studies approves appointments of Directors of Collaborative Programs. The initial term normally is three years, with subsequent terms normally up to five years. An appointment is renewable upon recommendation of the Program Committee in consultation with the chairs/directors of participating graduate units, and approval of the Dean of SGS. The Director shall be responsible for certifying for each collaborative program student that the requirements of the Program have been fulfilled.

6. Program Committee

It is agreed that the Collaborative Program shall be administered by a program committee consisting of one graduate faculty member from each participating home program (recommended by each Chair). The Program Committee shall be chaired by the Program Director and will meet on a quarterly basis

The Program Committee shall be responsible for the following activities:

- a) review of all applications and admissions to the collaborative program
- b) review of curriculum, including summer institute
- c) review and approval of all practicum settings
- d) nomination of a new Director from amongst its membership, as required
- e) other activities as required

7. Supporting Departments

Department of Psychiatry

The Department of Psychiatry, itself not a graduate department, shall be involved in supporting the Collaborative Program through their faculty who may be involved in providing practicum opportunities, assisting in teaching core courses and participate in student supervision.

These units and their associated faculty member(s), if any, shall be listed in the SGS Calendar as Supporting Departments with their participating faculty members being cross-appointed to one of the participating graduate departments.

8. Resource Issues

The Collaborative Program Health Services and Policy Research will be administered through the Graduate Department of Health Policy, Management and Evaluation. The Collaborative Program is part of a consortium of six Ontario Universities researchers (the Ontario Training Center in Health Services and Policy Research) that have come together to improve graduate education for students who are interested in becoming health services and policy. Funding to develop the OTC has been obtained from the Canadian Health Services Research Foundation and the Canadian Institutes of Health Research (\$2.1 million from 2002-2008); a portion of these funds will be used to support the Collaborative Program.

School of Graduate Studies
University of Toronto

COLLABORATIVE GRADUATE PROGRAM IN
HEALTH SERVICES AND POLICY RESEARCH
MEMORANDUM OF AGREEMENT
[MAY, 2003]

SIGNATURE PAGE
UNIT AGREES TO PARTICIPATE IN ACCORDANCE WITH ALL TERMS
OUTLINED IN THIS MEMORANDUM OF AGREEMENT

Director:

[RHONDA COCKERILL]
[HPME]

Date: _____

Participating Graduate Units:

[Dyanne Affonso]
[Faculty of Nursing]
[M.N./Ph.D., Nursing]

Date: _____

[Louise Lemieux Charles]
[HPME]
[M.Sc./Ph.D., HPME]

Date: _____

[Molly Verrier]
[Rehabilitation Science]
[M.Sc., Rehab]

Date: _____

[Rob Macgregor]
[Pharmaceutical Sciences]
[M.Sc./Ph.D., Pharmaceutical Sciences]

Date: _____

Supporting Departments

Dr. Don Wasylenki
[Department of Psychiatry]

Date: _____

School of Graduate Studies

Professor Michael R. Marrus, Dean
School of Graduate Studies

Date: _____

Professor Donald E. Cormack, Vice-Dean
School of Graduate Studies

Date: _____

University of Toronto
Programme: Graduate Department of Health Policy, Management and Evaluation
<http://www.utoronto.ca/hpme/>

Contact

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MSc / PhD Program

MSc and PhD students are required to complete course work and a thesis in one of five concentrations on either a full-time or part-time basis. The five areas of specialization include:

- Health Services Organization and Management
- Health Policy
- Health Services Outcomes and Evaluation
- Clinical Epidemiology
- eHealth Innovation and Information Management

In order to make our research-based programs more accessible to students we have introduced full-time and part-time study. However, most classes are still held between 9:00 a.m. - 5:00 p.m., Monday - Friday. Students must declare their intentions to study either full- or part-time at the beginning of their program, and cannot switch their status mid-way during their program. Full-time and part-time MSc students have up to five years to successfully complete the requirements of the degree. Full-time PhD students have up to six years to complete the requirements of the degree while flex-time PhD students are allotted a maximum of eight years.

The MSc program consists of a minimum of 6 half-year courses and completion of a research thesis of acceptable quality and its oral defense. Two of the courses must be in the area of specialization and two must be in research methods and/or statistics. The remaining two are elective courses. Thesis research must be supervised by a faculty member who has an appointment (either primary or cross-appointment) in HPME.

The PhD program consists of a minimum of 10 half-year courses, oral defence of a dissertation proposal, and completion of a dissertation and its oral defence. Students meet annually with their supervisor and the PhD Program Director to review their progress and to plan course work and other activities for the next year.

Core Faculty

Name	Contact	Recent Publications
Geoff Anderson	416-946-5223 geoff.anderson@utoronto.ca	1. Mamdani M, Rochon P, Juurlink DN, Anderson GM, Kopp A, Naglie G, Austin PC, Laupacis A. Effect of selective cyclooxygenase 2 inhibitors and naproxen on short-term risk of acute myocardial infarction in the elderly. Arch Intern Med. 2003 Feb 24;163(4):481-6. 2. Mamdani M, Upshur RE, Anderson G, Bartle BR, Laupacis A. Warfarin therapy and risk of hip fracture among elderly patients. Pharmacotherapy. 2003 Jan;23(1):1-4.
Ross Baker	416-978-7804 ross.baker@utoronto.ca	1. Baker GR, King H, MacDonald JL, Horbar JD. Using organizational assessment surveys for improvement in neonatal intensive care. Using organizational assessment surveys for improvement in neonatal intensive care. Pediatrics 2003 Apr;111(4 Pt 2):e419-25.

		<ol style="list-style-type: none"> Irvine Doran DM, Baker GR, Murray M, Bohnen J, Zahn C, Sidani S, Carryer J. Achieving clinical improvement: an interdisciplinary intervention. <i>Health Care Manage Rev</i> 2002;27(4):42-56.
Jan Barnsley	416-978-1782 jan.barnsley@utoronto.ca	<ol style="list-style-type: none"> Hutchison B, OStbye T, Barnsley J, Stewart M, Mathews M, Campbell MK, Vayda E, Harris SB, Torrance-Rynard V, Tyrrell C. Patient satisfaction and quality of care in walk-in clinics, family practices and emergency departments: the Ontario Walk-In Clinic Study. <i>CMAJ</i>. 2003 Apr 15;168(8):977-83. Lemieux-Charles L, Murray M, Baker GR, Barnsley J, Tasa K. The effect of quality improvement practices on health care team effectiveness: A mediational model. <i>Journal of Organizational Behavior</i> 2002; 23: 533-53.
Susan Bronskill	416-480-4055 x3873 susan.bronskill@ices.on.ca	<ol style="list-style-type: none"> Shulman K.I., Anderson G.M., Sykora K., Mamdani M.M., Bronskill S.E., Rochon P.A. Changing prescription patterns for lithium and valproic acid in old age: shifting without evidence. <i>British Medical Journal</i> 2003;36:960-961. Lindsay P.C., Schull M.J., Bronskill S.E., Anderson G.M. The development of indicators to measure the quality of clinical care in emergency departments following a modified-delphi approach. <i>Academic Emergency Medicine</i> 2002;9(11): 1131-1139.
Adalsteinn Brown	416-978-1484 adalsteinn.brown@utoronto.ca	<ol style="list-style-type: none"> Magistretti A and Brown AD. Performance measurement in women's health: The Women's Health Report, Hospital Report 2001 Series, A Canadian Experience Women's Health Issues, 2002; 12: 327-337. Anderson GM and Brown AD. Appropriateness ratings: Overuse, underuse, or misuse? <i>Lancet</i>, 2001; 358:1475-76.
Rhonda Cockerill	416-978-7721 rhonda.cockerill@utoronto.ca	<ol style="list-style-type: none"> Dobbins M, Ciliska D, Cockerill R*, Barnsley J*, DiCenso A. A framework for the dissemination and utilization of research for health-care policy and practice. <i>Online J Knowl Synth Nurs</i> 2002;9:7. O'Brien-Pallas LL, Irvine Doran D, Murray M, Cockerill R, Sidani S, Laurie-Shaw B, Lochhaas-Gerlach J. Evaluation of a client care delivery model, Part 2: Variability in client outcomes in community home nursing. <i>Nurs Econ</i>. 2002 Jan-Feb;20(1):13-21, 36.
Peter Coyte	416-978-8369 peter.coyte@utoronto.ca	<ol style="list-style-type: none"> Young W, Rewa G, Coyte PC, Jaglal SB, Goodman S, Bentley-Taylor M, Fountas P, Gupta A, Levinson A, O'Connor T. The development of Partners for Health's integrated community pathway for postmyocardial infarction patients. <i>Can J Cardiol</i>. 2003 Mar 15;19(3):231-5. Ford-Jones EL, Friedberg J, McGeer A, Simpson K, Croxford R, Willey B, Coyte PC, Kellner JD, Daya H. Microbiologic findings and risk factors for antimicrobial resistance at myringotomy for tympanostomy tube placement-a prospective study of 601 children in Toronto. <i>Int J Pediatr Otorhinolaryngol</i> 2002;66(3):227-42.
Raisa Deber	416-978-8366 raisa.deber@utoronto.ca	<ol style="list-style-type: none"> Deber RB. Health care reform: lessons from Canada. <i>Am J Public Health</i>. 2003 Jan;93(1):20-4. Forget EL, Deber R, Roos LL. Medical savings accounts: will they reduce costs? <i>CMAJ</i> 2002;167(2):143-7.
Alex Jadad	416-340-4800 x6903 ajadad@uhnres.utoronto.ca	<ol style="list-style-type: none"> Till JE, Phillips RA, Jadad AR. Finding Canadian cancer clinical trials on the Internet: an exploratory evaluation of online resources. <i>CMAJ</i>. 2003 Apr 29;168(9):1127-9. O'Connor TS, McCarroll-Butler P, Meakes E, Davis A,

		Jadad A. Review of quantity and types of spirituality research in three health care databases (1962-1999): implications for the health care ministry. <i>J Pastoral Care Counsel</i> 2002;56(3):227-32.
Audrey Laporte	416-946-7386 audrey.laporte@utoronto.ca	1. Laporte A. A note on the use of a single inequality index in testing the effect of income distribution on mortality. <i>Social Science and Medicine</i> 2002 (in press). 2. Christofides LN, Laporte A. Menu costs, nominal wage revisions and intra-contract wage behaviour. <i>Industrial Relations</i> 2002;41(2):287-303.
Louise Lemieux-Charles	416-978-4210 l.lemieux.charles@utoronto.ca	1. Hawryluck L, Harvey WRC, Lemieux-Charles L, Singer PA. Consensus guidelines on analgesia and sedation in dying ICU patients. <i>BMC Medical Ethics</i> 2002; 3: 3. 2. Lemieux-Charles L, Murray M, Baker GR, Barnsley J, Tasa K. The effect of quality improvement practices on health care team effectiveness: A mediational model. <i>Journal of Organizational Behavior</i> 2002; 23: 533-53.
Paul Williams	416-978-8327 paul.williams@utoronto.ca	1. Williams AP, Barnsley J, Vayda E, Kaczorowski J, Ostbye T, Wenghofer E. Comparing the characteristics and attitudes of physicians in different primary care settings: The Ontario Walk-in Clinic Study. <i>Fam Pract.</i> 2002 Dec;19(6):647-57. 2. Barnsley J, Williams AP, Kaczorowski J, Vayda E, Vingilis E, Campbell K, Atkin K. Who provides walk-in services? Survey of primary care practice in Ontario. <i>Can Fam Physician.</i> 2002 Mar;48:519-26.

MSc Program

MSc Health Administration

Six half-courses must be completed; two of which must be research methodology courses and two of which must be in an area of specialization. These courses are selected from those listed in the PhD table below.

MSc Clinical Epidemiology

Six half courses must be completed; three are required (CHL 5201H, HAD 5301H or equivalent, and one of HAD 5303H, HAD 5304H, HAD 5306H or HAD 5309H) and three are optional.

Course title and calendar number	Degree of Openness*	Pre-requisites e.g., basic statistics course	Timing by term or time blocks	Frequency e.g. every other year	Language English or French	Appropriate to OTC Competencies yes/no
CHL5201H Introduction to Biostatistics for Students in Biological Sciences	4	---	H	Yearly	E	Y
HAD 5301H Introduction to Clinical Epidemiology and Health Care Research	4	---	H	Yearly	E	Y
HAD 5302H Measurement in Clinical Research	3	Biostatistics I	S	Yearly	E	Y

* 1= Restricted to students enrolled in specific program 2= Open, has prerequisites 3= Open but enrolment pressures (often unable to admit all students who are interested in the course) 4 = Open

Course title and calendar number	Degree of Openness*	Pre-requisites e.g., basic statistics course	Timing by term or time blocks	Frequency e.g. every other year	Language English or French	Appropriate to OTC Competencies yes/no
HAD 5303H Controlled Clinical Trials	3	HAD5301	S	Yearly	E	Y
HAD 5304H Clinical Decision Making and Cost Effectiveness	4	---	H	Contact dept	E	Y
HAD 5305H Evidence-Based Guidelines	4	---	H	Contact dept	E	Y
HAD 5306H Introduction to Health Care Research Methodology	4	---	H	Yearly	E	Y
HAD 5308H Systematic Review of Randomized Controlled Trials	4	---	H	Contact dept	E	Y
HAD 5309H Non-Experimental Design for the Clinical Researcher	4	---	H	Contact dept	E	Y
HAD 5310H Pragmatic Issues in RCTs Course	4	---	H	Contact dept	E	Y
HAD 6360H Required Research Practicum in Clinical Epidemiology	1	---	H	Yearly	E	Y
HAD 6361H Optional Research Practicum in Clinical Epidemiology	1	---	H	Yearly	E	Y
HAD 5763H Health Care Performance Measurement	4	---	H	Yearly	E	Y

PhD Program

Course title and calendar number	Degree of Openness*	Pre-requisites e.g., basic statistics course	Timing by term or time blocks	Frequency e.g. every other year	Language English or French	Appropriate to OTC Competencies yes/no
Health Service Organization and Management (following required courses, plus three electives)						
HAD 5762 Seminar Series	4	---	Y	Yearly	E	Y
HAD 5772 Intermediate Statistics for Health Services Research (or equivalent)	4	Introductory statistics	S	Yearly	E	Y
HAD 5773 Introduction to Theories of Organizational Behaviour and Applications to the Health Care Sector	4	---	F	Yearly	E	N
HAD 6760 Introduction to Health Services Research Theory & Methods	4	PhD students only	F	Yearly	E	Y
HAD 6762 Health Services Organization and Management Comprehensive Course	1	---	Y	Yearly	E	N
MGT 3002 Advanced Topics in Strategy and Organization	4	---	F	Yearly	E	N
MGT 3065 New Directions in Organizational Research	4	---	S	Yearly	E	N
Health Policy (followed required courses plus four electives)						
HAD 5762 Seminar Series	4	---	Y	Yearly	E	Y
HAD 5772 Intermediate Statistics for Health Services Research (or equivalent)	4	Introductory statistics	S	Yearly	E	Y
HAD 5765 Case Studies in Health Policy	2	---	S	Yearly	E	Y
POL 2501 Research Methods & Design (a 2-Credit Course)	4	---	Y	Yearly	E	Y
HAD 6763 Health Policy Comprehensive Course	1	---	Y	Yearly	E	N

* 1= Restricted to students enrolled in specific program 2= Open, has prerequisites 3= Open but enrolment pressures (often unable to admit all students who are interested in the course) 4 = Open

Health Services Outcomes & Evaluation (following required courses plus five electives)						
HAD 5762 Seminar Series	4	---	Y	Yearly	E	N
HAD 5772 Intermediate Statistics for Health Services Research (or equivalent)	4	Introductory statistics	S	Yearly	E	Y
HAD 5763 Health Care Performance Measurement	4	Statistics I	H	Yearly	E	Y
HAD 5760 Health Economics II (or equivalent)	4	Health Economics I	S	Yearly	E	Y
HAD 6761 Health Services Outcomes and Evaluation Comprehensive Course	1	---	Y	Yearly	E	N
Clinical Epidemiology (following required courses plus three electives)						
HAD 5301 Introduction to Clinical Epidemiology	3	---	H	Yearly	E	Y
HAD 5307 Introduction to Applied Biostatistics or Biostatistics I	4	---	F	Yearly	E	Y
HAD 5202 Biostatistics II	4	Biostatistics I	S	Yearly	E	Y
HAD 5304 Measurement in Clinical Research	3	HAD5301 and HAD 5307	S	Yearly	E	Y
HAD 5762 Seminar Series	4	---	Y	Yearly	E	Y
HAD 5311 Clinical Epidemiology Comprehensive Course	1	---	Y	Yearly	E	N
Plus at least one of the following:						
HAD 5303 Controlled Clinical Trials	3	HAD5301	S	Yearly	E	Y
HAD 5306 Introduction to Health Care Research Methodology	3	HAD5301	H	Yearly	E	Y
CHL 5402 Epidemiology Methods II (or equivalent, to be developed)	3	HAD5301	S	Yearly	E	Y
eHealth Innovation and Information Management (following required courses plus three electives)						
HAD 5762 Seminar Series	4	---	Y	Yearly	E	N
HAD 5772 Intermediate Statistics for Health Services Research (or equivalent)	4	Introductory statistics	S	Yearly	E	Y
HAD 6760 Introduction to Health Services Research	4	PhD students only	F	Yearly	E	Y

Theory & Methods						
HAD 5011 Canada's Health Care System and Issues	4	---	F	Yearly	E	Y
HAD 7001 Design and Evaluation in eHealth Innovation and Information Management	4	---	F	Yearly	E	Y
HAD 5764 Decision Support Systems in Health (Practicum)	1	---	Y	Yearly	E	N
eHealth Innovation and Information Management Comprehensive Course	1	---	Y	Yearly	E	N

Y - Full Course

F - Half Course - First Term (September to December)

S - Half Course - Second Term (January to May)

H - Half Course - Term To Be Announced

L - Extended - Full or Half Course

University of Toronto
Programme: PhD Program, Faculty of Nursing
<http://www.nursing.utoronto.ca/programs/PhD/Default.phtml>

Contact

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PhD Program

The emphasis of the program is on the student's research. After admission to the program, a Supervisory Committee will be formed for each student, the purpose of which will be to plan, with the student, a program of study and to monitor the student's progress. The course work will be designed not only to support the student's research but also to provide breadth and depth in the area under study.

The program of study will include a minimum of four (4) courses, student/faculty research seminars, and a thesis based upon an approved research problem. A comprehensive examination will be required upon the completion of course work. The student's thesis will be defended in the Departmental Oral Examination and the Final Oral Examination of the School of Graduate Studies. The four courses include:

- one required course, NUR1080H Theoretical Perspectives in Nursing Science.
- one elective from the student's major field of study.
- a minimum of one elective in research methodology to support the student's research.
- a minimum of one elective to expand the student's knowledge base in the chosen field of study

Students will elect to study in one of three research fields:

1. Nursing Science of Healthy Individuals, Families and Communities
This field has its roots in health education, social support, and health promotion, from micro (nurse-client) to macro (community development) level.
2. Nursing Science of Individuals and Families Experiencing Acute and Chronic Illness
This field is concerned with understanding and ameliorating the effects of acute and chronic illness on individuals and families, and encompasses both fundamental and applied research.
3. Science of Nursing Administration
This field examines the factors that affect nurses' ability to provide high quality nursing care in various employment settings, and strategies that can be used to improve nurses' work life

The program can be taken on a full-time or flex-time basis. Normally degree requirements are completed in four academic years of full-time study. All requirements for the degree must be completed within six calendar years from the date of the student's first registration in the program. Students who indicate on their application form that they are choosing the flex-time option are required to pay full-time fees for the first four years of their program; thereafter, they will pay part-time fees. The admission, course and degree requirements for the flex-time option are identical to those listed above for the full-time PhD program. However, students will have up to eight years to complete the program.

Core Faculty

Name	Contact	Recent Publications
Linda O'Brien-Pallas	416.978.1967 l.obrien.pallas@utoronto.ca	<ol style="list-style-type: none"> 1. O'Brien-Pallas L. Leadership in research: about building relationships. Can J Nurs Leadersh. 2003;16(1):28-31. 2. Hall LM, Doran D, Laschinger HS, Mallette C, Pedersen C, O'Brien-Pallas LL. A balanced scorecard approach for nursing report card development. Outcomes Manag. 2003 Jan-Mar;7(1):17-22.
Diane Doran	416.978.2866 diane.doran@utoronto.ca	<ol style="list-style-type: none"> 1. Hall LM, Doran D, Laschinger HS, Mallette C, Pedersen C, O'Brien-Pallas LL. A balanced scorecard approach for nursing report card development. Outcomes Manag. 2003 Jan-Mar;7(1):17-22. 2. Cockerill R, Palla LL, Murray M, Doran D, Sidani S, Shaw BL, Gerlach JL. Adequacy of time per visit in community nursing. Res Theory Nurs Pract. 2002 Spring;16(1):43-51.
Jan Angus	416.978.0695 jan.angus@utoronto.ca	<ol style="list-style-type: none"> 1. Reid D, Angus J, McKeever P, Miller KL. Home is where their wheels are: experiences of women wheelchair users. Am J Occup Ther. 2003 Mar-Apr;57(2):186-95. 2. Angus J. The material and social predicaments of home: women's experiences after aortocoronary bypass surgery. Can J Nurs Res. 2001 Sep;33(2):27-42.
Linda McGillis Hall	416.978.2869 l.mcgillishall@utoronto.ca	<ol style="list-style-type: none"> 1. Hall LM, Doran D, Laschinger HS, Mallette C, Pedersen C, O'Brien-Pallas LL. A balanced scorecard approach for nursing report card development. Outcomes Manag. 2003 Jan-Mar;7(1):17-22. 2. Hall LM. Nursing intellectual capital: a theoretical approach for analyzing nursing productivity. Nurs Econ. 2003 Jan-Feb;21(1):14-9.
Pat McKeever	416.978.2855 p.mckeever@utoronto.ca	<ol style="list-style-type: none"> 1. Hudak PL, McKeever P, Wright JG. The metaphor of patients as customers: implications for measuring satisfaction. J Clin Epidemiol. 2003 Feb;56(2):103-8. 2. Workman S, McKeever P, Harvey W, Singer PA. Intensive care nurses' and physicians' experiences with demands for treatment: Some implications for clinical practice. J Crit Care. 2003 Mar;18(1):17-21.
Dorothy Pringle	416.978.2068 dorothy.pringle@utoronto.ca	<ol style="list-style-type: none"> 1. Davies B, Hodnett E, Hannah M, O'Brien-Pallas L, Pringle D, Wells D. Fetal health surveillance: a community-wide approach versus a tailored intervention for the implementation of clinical practice guidelines. CMAJ. 2002 Sep 3;167(5):469-74. 2. Pringle DM, White P. Nursing matters: the Nursing and Health Outcomes Project of the Ontario Ministry of Health and Long-Term Care. Can J Nurs Res. 2002 Mar;33(4):115-21.
Anne Tourangeau	416.978.6919 ann.tourangeau.utoronto.ca	<ol style="list-style-type: none"> 1. Stone PW, Tourangeau AE. Measuring nursing services in patient safety research. Appl Nurs Res. 2003 May;16(2):131-2. 2. Tourangeau AE, Giovannetti P, Tu JV, Wood M. Nursing-related determinants of 30-day mortality for hospitalized patients. Can J Nurs Res. 2002 Mar;33(4):71-88.

Course title and calendar number	Degree of Openness*	Pre-requisites e.g. basic statistics course, other cours	Timing by term or time blocks	Frequency e.g. every other year	Language English or French	Appropriate to OTC Competencies yes/no
NUR1080H Theoretical Perspectives in Nursing Science (required)	1	---	H	Contact dept	E	N
NUR1012H Culture and Relations	3	---	H	Contact dept	E	N
NUR1013H Transcultural Health Care Issues	3	---	H	Contact dept	E	Y
NUR1014H The Politics of Aboriginal Health	3	---	H	Contact dept	E	Y
NUR1016H Health Systems, Policy and the Profession	4	---	H	Contact dept	E	Y
NUR1017H History of Ideas in Nursing Practice	4	---	H	Contact dept	E	N
NUR1021H Nursing Ethics	3	---	H	Contact dept	E	N
NUR1022H Research Design, Appraisal and Utilization	4	---	H	Contact dept	E	Y
NUR1023H Critical Issues in the Design and Conduct of Controlled Trials of Behavioural Health Care Intervention	2	Introductory Statistics, Research Design	H	Contact dept	E	Y
NUR1024H Qualitative Research: Foundations, Methods and Designs	4	---	H	Contact dept	E	Y
NUR1026H Evaluating Interventions in Clinical Settings	2	Intermediate Statistics, Research Methods	H	Contact dept	E	Y
NUR1032H Group Process and Professional Practice	4	---	H	Contact dept	E	N
NUR1033H Current Mental Health Issues and Their Implications for Practice	4	---	H	Contact dept	E	Y
NUR 1034H	4	---	H	Contact dept	E	Y

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Course title and calendar number	Degree of Openness*	Pre-requisites e.g. basic statistics course, other cours	Timing by term or time blocks	Frequency e.g. every other year	Language English or French	Appropriate to OTC Competencies yes/no
Program Planning and Evaluation in Nursing						
NUR1037H Aging and Place: Social and Policy Transitions	3	---	H	Contact dept	E	N
NUR1039H Women's Health Across the Lifespan	3	---	H	Contact dept	E	N
NUR1040H Issues in Women's Health Care	3	---	H	Contact dept	E	N
NUR1041H Caring for Children: Places, Programs and Caregivers	4	---	H	Contact dept	E	N
NUR1042H Responses of Children and Families to Acute Illness in Children	4	---	H	Contact dept	E	N
NUR1043H Theories of Interpersonal Process	4	---	H	Contact dept	E	N
NUR1044H "Thinking" About Children: Implications for Health Care Research, Practice and Policy	4	---	H	Contact dept	E	N
NUR1045H Theories of Pain: Impact on the Individual, Family and Society	4	---	H	Contact dept	E	N
NUR1047H Community Participation and Health	4	---	H	Contact dept	E	N
NUR1048H Politics of Health in the Community	4	---	H	Contact dept	E	Y
NUR1049H Nursing Approaches to Common Physiological and Behavioural Manifestations of Critically Ill Patients	4	---	H	Contact dept	E	N
NUR1050H Coping with Illness	4	---	H	Contact dept	E	N

Course title and calendar number	Degree of Openness*	Pre-requisites e.g. basic statistics course, other cours	Timing by term or time blocks	Frequency e.g. every other year	Language English or French	Appropriate to OTC Competencies yes/no
NUR1051H Assessment and Management of Common Responses to Illness	4	---	H	Contact dept	E	N
NUR1052H Perinatal Nursing Science	4	---	H	Contact dept	E	N
NUR1056H Places, Programs and People who Provide Care	3	---	H	Contact dept	E	N
NUR1057H Interventions to Enhance Health, Abilities and Well-Being	4	---	H	Contact dept	E	N
NUR1059H Informatics: Theory and Application in Nursing	4	---	H	Contact dept	E	Y
NUR1060H Management of Nursing Services	4	---	H	Contact dept	E	Y
NUR1061H Patient Information Systems / Workload Measurement	4	---	H	Contact dept	E	Y
NUR1062H Measuring Nursing Care Effectiveness: Economic and Financial Perspectives	4	---	H	Contact dept	E	Y
NUR1064H Behaviour in Health Care Organizations	2	NUR1017H NUR1022H	H	Contact dept	E	Y
NUR1066H The Theoretical Basis for Methodology for Quality Improvement in Nursing Services	4	---	H	Contact dept	E	Y
NUR1067H Recovery-Oriented Mental Health Systems of Care	4	---	H	Contact dept	E	N
NUR1068H Youth and Mental Health Promotion	4	---	H	Contact dept	E	N
NUR1072Y Advanced Nursing Practice and Comprehensive Paper	1	---	Y	Contact dept	E	N
NUR1090H Measuring Nursing Phenomena	2	---	H	Contact dept	E	N

Course title and calendar number	Degree of Openness*	Pre-requisites e.g. basic statistics course, other cours	Timing by term or time blocks	Frequency e.g. every other year	Language English or French	Appropriate to OTC Competencies yes/no
NUR1101H (Adult) NUR1102H (Child) Advanced Health Assessment and Clinical Reasoning	2	NUR1022H	H	Contact dept	E	N
NUR1103H Pathophysiological Concepts	4	---	H	Contact dept	E	N
NUR1104H Therapeutics	4	---	H	Contact dept	E	N

Y - Full Course

F - Half Course - First Term (September to December)

S - Half Course - Second Term (January to May)

H - Half Course - Term To Be Announced

L - Extended - Full or Half Course

University of Toronto
Programme: Graduate Department of Pharmaceutical Sciences
<http://phm.utoronto.ca/graduate/>

Contact

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MSc Program

The M.Sc. degree is considered by students and employers to be a valuable qualification for professionally and technically demanding positions in academia, government agencies, research hospitals, pharmaceutical industry, pharmaceutical research institutes, and information agencies. The M.Sc. program should normally be completed within two calendar years of full-time study; the minimum full-time residence is one year. Final details concerning the program of study are normally arranged after acceptance and registration of the candidate, each program then being tailored to suit the needs of the individual.

Full-time Program requirements include:

1. One-year enrolment in the School of Graduate Studies. The normal program length is two years.
2. Course work that provides the appropriate background for the student's thesis research. The program will depend on the student's background and should be planned in consultation with his/her Supervisor and the Advisory Committee. Students will usually complete two full course equivalents. A minimum of one full course equivalent is required.
 - a. One poster presentation to faculty and graduate students at Graduate Research in Progress (GRIP)
 - b. Attendance at GRIP and Post GRIP
 - c. Regular attendance at Pharmaceutical Sciences Departmental Seminars
3. Annual advisory committee meetings.
4. A thesis based upon original research in an area related to Pharmaceutical Sciences.
5. Successful completion of an oral thesis defense (20 to 30 minutes).

Part-time Program requirements include:

1. Course work that provides the appropriate background for the student's thesis research. The program will depend on the student's background and should be planned in consultation with his/her Supervisor and the Advisory Committee. Students will usually complete two full course equivalents. A minimum of one full course equivalent is required.
 - a. One poster presentation given to faculty and graduate students at Graduate Research in Progress (GRIP), the presentation must be given no later than the second year of the program.
 - b. Attendance at GRIP and Post GRIP.
 - c. Regular attendance at Pharmaceutical Sciences Departmental Seminars.
2. Annual advisory committee meetings.
3. A thesis based upon original research in an area related to Pharmaceutical Sciences.
4. Successful completion of an oral thesis defense (20 to 30 minutes).
5. Completion of the program within four and one-half years.

Completion of the M.Sc. Degree

To qualify for the M.Sc. degree all degree requirements must be successfully completed. This includes completion of advisory committee meetings, one full course equivalent, poster presentation at GRIP, attendance at graduate seminars, a written thesis, and the thesis oral defense. All Collaborative Program students must meet the degree requirements for their specific collaborative program in addition to the above requirements.

PhD Program

The Ph.D. degree is a highly prestigious qualification for a position of leadership in a variety of fields such as academia, government agencies, research hospitals, pharmaceutical industry, pharmaceutical research institutes, and information agencies.

Program requirements include:

1. A residency period of two years; the normal program length is four years.
2. Two full course equivalents for students entering with a M.Sc. degree. Students who enter directly into the Ph.D. program with a B.Sc. degree must complete three course equivalents. Students transferring from the M.Sc. to the Ph.D. program will be given transfer credit for graduate course work completed during the M.Sc. program.
3. A program of courses that will provide the appropriate back-ground for the student's thesis research. The selection of courses will depend on the previous degrees and research experience of the student and be planned in consultation with his/her supervisor and the Advisory Committee. The courses should be graduate courses and is not restricted to courses offered in the Graduate Department of Pharmaceutical Sciences.
4. The following:
 - a. Participation at GRIP. Students who enter the program with a B.Sc. degree must give one oral and one poster presentation at Graduate Research in Progress (GRIP). Students who enter with a M.Sc. degree must give an oral presentation.
 - b. A full-length Departmental research seminar to be given before the final defense.
 - c. Attendance at GRIP and Post-GRIP.
 - d. Regular attendance at Departmental Seminars.
5. Annual advisory committee meetings.
6. A Qualifying Examination, which must be successfully completed within the first fifteen months of the program.
7. A written thesis and Senate Oral Examination in conformity with the regulations of the School of Graduate Studies of the University of Toronto.

Core Faculty

Name	Contact	Recent Publications
Heather Boon	(416) 946-5859 heather.boon@utoronto.ca	<ol style="list-style-type: none">1. Boon H "Regulation of Complementary/Alternative Medicine: A Canadian Perspective" Complementary Therapies in Medicine, 2002;10: 14-19.2. Verhoef M, B Findlay, T Yeomans, H Boon, "Evaluating integrated healthcare delivery models: a holistic approach" Focus on Alternative and Complementary Therapies 2002;7(4):330-333.
Jillian Cohen	(416) 946-8708 jillianclare.cohen@utoronto.ca	<ol style="list-style-type: none">1. Cohen JC, Illingworth P. The dilemma of intellectual property rights for pharmaceuticals: The tension between ensuring access of the poor to medicines and committing to international agreements. Developing World Bioethics 2003; 3(1): 1471-8847 (online).2. Jillian Clare Cohen (2002). Developing State Responses to the Pharmaceutical Imperatives of the TRIPS Agreement." Chapter Six in The Economics of Essential Medicines (Brigitte Granville ed.), Royal Institute of International Affairs, London, England.
Paul Grootendorst	(416) 946-3994 paul.grootendorst@utoronto.ca	<ol style="list-style-type: none">1. Grootendorst P, Newman EC, Levine MA. Validity of self-reported prescription drug insurance coverage. Health Rep 2003 Feb;14(2):35-46.2. Alan S, Crossley TF, Grootendorst P, Veall MR. The effects of drug subsidies on out-of-pocket prescription drug expenditures by seniors: regional evidence from Canada. J Health Econ 2002 Sep;21(5):805-26.

Name	Contact	Recent Publications
Linda MacKeigan	(416) 978-3945 l.mackeigan@utoronto.ca	1. MacKeigan LD, Gafni A, O'Brien BJ. Double discounting of QALYs. Health Econ 2003 Feb;12(2):165-9. 2. MacKeigan LD, Marshman JA, Kruk-Romanus D, Milovanovic DA, Jackevicius C, Naglie G, Einarson TR. Clinical pharmacy services in the home: Canadian case studies. J Am Pharm Assoc (Wash) 2002 Sep-Oct;42(5):735-42.

Course title and calendar number	Degree of Openness*	Pre-requisites ie. basic statistic course	Timing by term or time blocks	Frequency ie. every other year	Language English or French	Appropriate to OTC Competencies yes/no
PHM 1107H(F) Advanced Pharmacokinetics Course I	4	---	F	Yearly	E	N
PHM 1108H(S) Advanced Pharmacokinetics Course II	2	Advanced Pharmacokinetics Course I	S	Yearly	E	N
PHM 1109H Recent Developments in Dosage Form Design	4	---	H	Contact dept	E	N
PHM 1110H(S) Chemical Basis of Drug Metabolism	4	---	S	Yearly	E	N
PHM 1111H Research & Statistical Analytical Methods	4	---	H	Contact dept	E	Y
PHM 1114H Special Topics in Radiopharmaceuticals I	4	---	H	Contact dept	E	N
PHM 1115H Special Topics in Radiopharmaceuticals II	2	Special Topics in Radiopharmaceuticals I	H	Yearly	E	N
PHM 1116H Pharmacoeconomic Evaluation	4	---	H	Contact dept	E	Y
PHM 1117H DNA-Drug Interactions	4	---	H	Contact dept	E	N
PHM 1118H Drug Utilization: Patterns, Outcomes, and Issues in Drug Use Evaluation	4	---	H	Contact dept	E	Y
PHM 1119Y Graduate Seminar in Social and Administrative Pharmacy	1	---	Y	Yearly	E	Y
PHM 1120H Graduate Seminar in Pharmaceutical Sciences	1	---	H	Contact dept	E	N
PHM 1122H(S) Fundamentals of Drug Discovery	4	---	S	Yearly	E	N
PHM 1123H(F) Thermodynamics of	4	---	F	Yearly	E	N

* 1= Restricted to students enrolled in specific program 2= Open, has prerequisites 3= Open but enrolment pressures (often unable to admit all students who are interested in the course) 4 = Open

Course title and calendar number	Degree of Openness*	Pre-requisites ie. basic statistic course	Timing by term or time blocks	Frequency ie. every other year	Language English or French	Appropriate to OTC Competencies yes/no
Macromolecular Interactions						
PHM 1124H(F) International Pharmaceutical Policy: Understanding the Power and Politics Behind It	4	---	F	Yearly	E	Y
JFK 1120H(F) Selected Topics in Drug Development I	4	---	F	Yearly	E	N
JFK 1121H(S) Selected Topics in Drug Development II	2	Selected Topics in Drug Development I	S	Yearly	E	N
JFK 1122H(S) Drug Transport Across Biological Membranes	4	---	S	Yearly	E	N
JNP 1014Y Interdisciplinary Toxicology	4	---	Y	Yearly	E	N
JNP 1016H Graduate Seminar in Toxicology	4	---	H	Contact dept	E	N
JNP 1017H(S) Current Topics in Molecular and Biochemical Toxicology	4	---	S	Yearly	E	N
JNP 1018H(S) Molecular and Biochemical Basis of Toxicology	4	---	S	Yearly	E	N
PAS 3700H Multidisciplinary Aspects of Addictions (formerly ATS 3700)	4	---	H	Contact dept	E	Y
JPY 1007Y Neuropharmacology of Neurotransmitter Receptors	4	---	Y	Yearly	E	N

Y - Full Course

F - Half Course - First Term (September to December)

S - Half Course - Second Term (January to May)

H - Half Course - Term To Be Announced

L - Extended - Full or Half Course

University of Toronto
Programme: Graduate Department of Rehabilitation Science
<http://www.utoronto.ca/gdrs/>

Contact

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MSc Program

The M.Sc. program in Rehabilitation Science includes both course work and a thesis. Candidates should be aware that the completion of the thesis may take longer. Exceptional students may be considered for enrolment in a part-time program. There will be no residency requirement for part-time students. They must complete the program within five years, however, all course work must be completed within the first two years of the program. Part-time students must agree to an annual Learning Contract and must submit a Program Map (planned with his/her Supervisor) to the Department. Part-time students should be aware that it is the student's responsibility to modify her/his schedule to accommodate required course work as course times are not flexible.

In some instances where students lack certain qualifications upon entering the program, their supervisors or the PAC Committee may recommend that they take additional courses. The minimum course requirements are:

- REH 1100H Theory and Research in Rehabilitation
- REH2001H Rehabilitation Presentations and Proceedings
- 1 Half course in Research methodologies appropriate to thesis design.
- At least 1 additional half course related to the field of study.

The thesis is supervised by a Program Advisory Committee (PAC). This committee will usually be comprised of two or three (at most) individuals with appointments in the SGS. Their function is to provide expertise in areas relevant to the thesis topic, which is complementary to the supervisor's own interests. Selection of members of the PAC should take place as early as possible following enrollment and a first meeting held with all members within the first six months. One member, in addition to the supervisor, should be from the GDRS. The others need not be members of the GDRS. Their function is to provide expertise in areas relevant to the thesis topic, which are complementary to the supervisor's own interest. Formal meeting of the student, supervisor and PAC must be held every 6 months for both full and part-time students

Core Faculty

Name	Contact	Recent Publications
Susan Jaglal	416.978.0315 susan.jaglal@utoronto.ca	1. Jaglal SB, Carroll J, Hawker G, McIsaac WJ, Jaakkimainen L, Cadarette SM, Cameron C, Davis D. How are family physicians managing osteoporosis? Qualitative study of their experiences and educational needs. <i>Can Fam Physician</i> . 2003 Apr;49:462-8. 2. Kreder HJ, Grosso P, Williams JI, Jaglal S, Axcell T, Wal EK, Stephen DJ. Provider volume and other predictors of outcome after total knee arthroplasty: a population study in Ontario. <i>Can J Surg</i> . 2003 Feb;46(1):15-22.
Susan Rappolt	416.946.3248 s.rappolt@utoronto.ca	1. Rappolt S, Mitra AL, Murphy E. Professional accountability in restructured contexts of occupational therapy practice. <i>Can J Occup Ther</i> . 2002 Dec;69(5):293-302. 2. Rappolt S, Tassone M. How rehabilitation therapists gather, evaluate, and implement new knowledge. <i>J Contin Educ Health Prof</i> . 2002 Summer;22(3):170-80.

Molly Verrier	416.978.2769 m.verrier@utoronto.ca	<ol style="list-style-type: none"> 1. Mikulis DJ, Jurkiewicz MT, McIlroy WE, Staines WR, Rickards L, Kalsi-Ryan S, Crawley AP, Fehlings MG, Verrier MC. Adaptation in the motor cortex following cervical spinal cord injury. <i>Neurology</i>. 2002 Mar 12;58(5):794-801. 2. Quant S, Maki BE, Verrier MC, McIlroy WE. Passive and active lower-limb movements delay upper-limb balance reactions. <i>Neuroreport</i>. 2001 Sep 17;12(13):2821-5.
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Course title and calendar number	Degree of Openness*	Pre-requisites eg. basic statistics course	Timing by term or time blocks	Frequency eg. every other year	Language English or French	Appropriate to OTC Competencies yes/no
REH1100H Theory and Research in Rehabilitation	2	Introductory statistics	F	Yearly	E	Y
REH2001Y Rehabilitation Presentations & Proceedings	1	---	S	Yearly	E	Y
REH1120H Research Methods for Rehabilitation Science	2	Introductory statistics	F	Yearly	E	Y
REH1620H Methodological Issues in Research on Aging and Health	2	Introductory statistics	S	Yearly	E	Y

Y - Full Course

F - Half Course - First Term (September to December)

S - Half Course - Second Term (January to May)

H - Half Course - Term To Be Announced

L - Extended - Full or Half Course

* 1= Restricted to students enrolled in specific program 2= Open, has prerequisites 3= Open but enrolment pressures (often unable to admit all students who are interested in the course) 4 = Open

School of Graduate Studies

Proposal for a New Course - Division IV

Revised September 1999

Department: Health Policy, Management and Evaluation

Date: SEPT 2003

If you are proposing a new graduate course, please submit it on this form. It will be photocopied and sent to the Executive Committee for approval exactly as you have submitted it.

1. Title, description of course, course number with identifier for length (Y of H only)

Research and Policy Practicum for the Collaborative Graduate Program in Health Services and Policy Research.

Students will work with a health services and policy research team to develop practical skills in completing a research or policy project and effectively communicating the results of that research to stakeholders.

JNT xxxx

2. Instructor/course coordinator, including lecturers if other than the instructor/coordinator.

Course Coordinators:

Rhonda Cockerill – Health Policy, Management and Evaluation

Heather Boon – Pharmaceutical Sciences

Susan Jaglal – Rehabilitation Science

Linda Lee O'Brien-Pallas/Diane Doran – Faculty of Nursing

3. Presentation of the course: lectures, seminars, readings, etc.

The Practicum consists of a three-month self-directed learning project carried out with the guidance of a research and/or policy preceptor in conjunction with the student's faculty advisor. Each practicum is individualized according to objectives that are formally established by all three parties (student, preceptor, advisor) and will address deficiencies in the required competencies of the student.

4. Prerequisite/Corequisite courses and enrolment restrictions, if any

Prerequisites

As required by individual departments for acceptance to graduate program.

Corequisites

Degree requirements as specified by individual departments (course work and thesis)

Collaborative Program Summer Institute

5. Abbreviated Course Title for computer course directory. (Must not be more than 20 characters and/or spaces or punctuation.)

HSR Practicum

School of Graduate Studies
Proposal for a New Course - Division IV

Revised September 1999

6. Will this course be assigned a letter grade or a Credit/No Credit (CR/NCR) designation? If CR/NCR, give criteria for passing.

This course will be assigned a Credit/No Credit designation.

Component	Description	Criteria
Journal summary	The student must submit a four to five page summary based on their learning journal to the faculty advisor who judges whether students accurately assessed their learning experience and developed ideas regarding future research and policy development	Responsibility of faculty advisor. Must pass in order to pass the course.
Interim performance evaluation by Research or Policy preceptor	Midway through the practicum the preceptor completes a standard evaluation form and reviews this with the student. Both student and preceptor sign off on the evaluation which is then forwarded to the faculty advisor for their review and input should they have any concerns.	Responsibility of preceptor. Grades are outstanding, excellent, good, acceptable, and unacceptable. Students can receive an unacceptable grade in one or more categories and still pass the course if their final performance evaluation is acceptable or higher.
Final performance evaluation by Research or Policy Preceptor	A second form is completed by the preceptor based on the entire practicum and reviewed with the faculty advisor.	Responsibility of preceptor. The student must receive an acceptable score or higher in all categories.

7. Marking scheme: examinations, assignments.

Possible practicum sites are identified by the course coordinator, participating preceptors, and by students themselves. The practicum experience is based on a learning contract. The student is required to develop a first draft upon starting their placement according to a template. The student must then discuss the contract with the preceptor and faculty advisor. All three must approve a final version of the contract by the end of the second week after commencing the practicum.

Student evaluation is based on three components that are described in the table, above. Each of these components is judged on a pass/fail basis. The overall decision to award credit for the practicum (ie. evaluation distribution) is made according to the criteria described in the table.

The journal summary, and interim and final performance evaluations are based on the objectives outlined in the learning contract. Performance ratings are based on achievement of objectives, initiative and leadership, planning and organizing, quality of work, effectiveness of relationships, and extent of self-development.

School of Graduate Studies

Proposal for a New Course - Division IV

Revised September 1999

8. Please list courses where there could be significant similarity or overlap of subject matter. Enclose written statements from relevant departments confirming lack of overlap and endorsing the course.

There are currently no joint Departmental courses in any of the participating departments that provide thesis students with a practical research and policy experience.

9. Briefly describe how the course fits into your graduate program.

The University of Toronto graduate departments of Health Policy, Management and Evaluation (MSc, PhD), Rehabilitation Science (MSc), and Pharmaceutical Sciences (MSc, PhD), and the Faculty of Nursing (PhD) will participate in the Collaborative Program. Students in the Collaborative Program will register in the graduate units of one of the participating faculties or departments and follow a program of studies acceptable to both the participating faculties or departments and the Collaborative Program. Students enrolled in the Collaborative Program must complete one Research and Policy Practicum and participate in at least one Summer Institute hosted by the Collaborative Program.

This course has been developed for the Ontario Training Centre in Health Services and Policy Research, a consortium of six Ontario Universities that have come together to improve graduate education for students who are interested in becoming health services and policy researchers. It includes Lakehead, Laurentian, McMaster and York Universities as well as the Universities of Ottawa and Toronto.

The objectives of the Collaborative Graduate Program in Health Services and Policy Research are to: (1) provide training in health services and policy research for graduate students (Masters and PhD); (2) enhance the quality and breadth of transdisciplinary training in health services and policy research by providing learners with access to learning experiences (e.g. courses, summer institutes, practicum experiences, supervisors and supervisory committee members, and mentors) that cut across universities, faculties, disciplines, departments and existing graduate programs; and (3) include decision makers as active partners in teaching, program and curriculum planning and the provision of field placements for students. The Collaborative Program will provide a focus for those students with an interest in health services and policy research to interact and learn from each other in a manner which may not be available in their home departments or faculties.

10. Indicate any resource implications and how they have been resolved.

Sufficient resources to support the operation and administration of the Collaborative Program are provided by the Canadian Institutes of Health Research and the Canadian Health Services Research Foundation. Over the next six years, \$2.1 million dollars has been pledged, 80% of which is to be spent on student stipends by the third year. Each participating University will receive funds to cover administrative costs, advertising and recruitment costs, new course preparation and faculty training, for example, on developing distance education courses. Additional monies will be available for the development of the Summer Institutes, including funds to support student and faculty travel costs. These monies will flow through the administrative "home" for the Collaborative Program (Department of Health Policy, Management and Evaluation for the University of Toronto site).

11. Are there any unusual features about the presentation and/or evaluation of this course or any additional information, which would be helpful to know?

None to report.

School of Graduate Studies
Proposal for a New Course - Division IV

Revised September 1999

The proposed course outline has been passed by departmental curriculum committee and has addressed supplementary criteria as recommended by the Executive Committee, Division IV.

Signature of Graduate Coordinator

Date

School of Graduate Studies
Proposal for a New Course - Division IV

Revised September 1999

Sample letter to be submitted by the Graduate Coordinator to the Associate Dean's office:

To: Division IV Associate Dean's office

From: _____

Re: New Course (Course identifier and title)

Date:

This course YYY XXXX has been passed by the curriculum committee of the Department of _____. The following points have all been considered (as appropriate) and I request that this course be put forward for approval by Division IV Executive Committee.

1. There is a breakdown of the overall evaluation distribution and timeframe.
2. There is a list of evaluators, and their respective responsibilities.
3. There is a set of criteria for assigning participation marks.
4. There is justification for participation being greater than 10% of final grade.
5. There are detailed descriptions of innovative or unusual methods of evaluation (i.e. web discussion, practical/clinical/lab skills, learning contract, etc.).
6. A detailed course outline for students has been prepared.
7. The evaluation criteria are consistent with the course teaching objectives.
8. A knowledgeable faculty member will attend Executive Committee meeting to speak to the course.

School of Graduate Studies

Proposal for a New Course - Division IV

Revised September 1999

Starting January 2000, this ROSI Academic Activity Form must accompany the new course proposal form. Please fill it out for each course, and submit it with the new course proposal form. The sections that are already filled in are standard, so do not change them. If you have any questions, please call Iva Berlekovic, Policy & Program Assistant, Division IV at 978-2295.

Date:		ADD
Maintain Academic Activity Basic Information screen (1ABA)	FIELD	COURSE
	Academic Activity Code (course identifier i.e. ABC1000Y/H)	
Maintain Academic Activity Offering Information screen (1ABD)	FIELD	ACTIVITY 1
	Academic Activity Code (course identifier i.e. ABC1000Y/H)	
	Start Session Code (year and month the course will first be offered - 20001 for January 2000)	
	End Session Code (if applicable, if N/A, leave 99999)	99999
	Primary Organization Code	SGS
	Secondary Organization Code (the department with administrative privileges IMPORTANT for joint courses)	
	Administrative Org Code (LFSGS – Division IV)	LFSGS
	Credit (Y/N)	
	Minimum Credit (0.5 or 1.0)	
	Maximum Credit (0.5 or 1.0)	
	Full Course Equivalent Weight (Y or H)	
	IVR/Web (registration available through IVR/Web?)	
Maintain Academic Activity Title screen (1ABB)	FIELD	ACTIVITY 1
	Academic Activity Code (course identifier i.e. ABC1000Y/H)	
	Start Session Code (year and month the course will first be offered - 20001 for January 2000)	
	End Session Code	99999
	Title Usage Code	F- Form/Report
	Title (Abbreviated Course Title for computer course directory. Must not be more than 20 characters and/or spaces or punctuation)	
	Title Usage Code	T- Transcript
	Title (course title as it will appear on the transcript)	

CALENDAR ENTRY

Collaborative Graduate Program in Health Services and Policy Research

Program or Executive Committee

R. Cockerill, PhD (HPME)
P.C. Coyte, PhD (HPME)
P. Goering, PhD (HPME)
D. Doran, RN, BA, MHSc, PhD (Nursing)
L.L. O'Brien Pallas, RN, BScN, MScN, PhD (Nursing)
H. Boon, PhD (Pharmaceutical Sciences)
S. Jaglal, PhD (Rehabilitation Science)

Address

Collaborative Graduate Program in Health Services and Policy Research
C/O Rhonda Cockerill
Department of Health Policy, Management and Evaluation
Faculty of Medicine
University of Toronto
McMurrich Building, 2nd Floor
12 Queen's Park Crescent West
Toronto ON M5S 1A8

Telephone: 416.978.7721

Fax: 416.978.7350

Email: rhonda.cockerill@utoronto.ca

Web: www.utoronto.ca/hpme/programsoffered.htm

Nature of Collaborative Program

All graduates of the Collaborative Program must demonstrate knowledge of Canada's health care system, health services and policy research tools, and theories of population health, knowledge production and knowledge transfer by completing relevant courses according to the requirements of the Collaborative Program and the requirements of the graduate program in their home unit. Students must complete a dissertation under the supervision of a Core Faculty member of the Collaborative Program in the student's home department that addresses the theme of "health services and policy research". In addition to the requirements for the degree program in the home graduate unit (specified by each department), students must: 1) complete a practicum; and 2) participate in one Summer Institute hosted by the OTC.

The Collaborative Program is part of the Ontario Training Centre in Health Services and Policy Research (OTC) which is a consortium of six Ontario Universities that have come together to improve graduate education for students who are interested in becoming health services and policy researchers. It includes Lakehead, Laurentian, McMaster and York Universities as well as the Universities of Ottawa and Toronto. Involved departments at the University of Toronto include Health Policy, Management and Evaluation, Nursing, Pharmaceutical Sciences and Rehabilitation Science.

Application Procedures (Masters and Doctoral)

Students in the Collaborative Program will register in the graduate units of one of the participating faculties or departments and follow a program of studies acceptable to both the participating faculties or departments and the Collaborative Program. Candidates for a Master's level degree or Doctorate would be accepted by the participating faculties or departments under School of

Graduate Studies general regulations and the specific criteria of the participating units. Admission to the Collaborative Program will be made by the Program's Admissions Committee. The Admissions Committee will include the Collaborative Program Director and a representative of each of the participating units. Please note that students who complete the Collaborative Program at the Masters' level, will not be eligible to participate at the PhD level.

Admission requirements (Masters)

Students who are interested in applying to the Collaborative Program will be required to demonstrate the following: 1) an overall B+ average in the last two years of an appropriate four year University of Toronto's bachelor's degree, or its equivalent from a recognized university and; 2) an interest in health services and policy research as demonstrated by an autobiographical letter describing why they want to become a health services or policy researcher.

Program requirements (Masters)

Students are required to complete the requirements of the collaborative program (completion of a Practicum and participation in one Summer Institute) in addition to those requirements for the masters degree program in their home graduate unit (specified by each department). All students are required to write a thesis under the supervision of a Core Faculty member of the Collaborative Program. The thesis must address the theme of "health services and policy research".

Courses of Instruction (Masters)

1. For courses of instruction offered by the University of Toronto departments involved in the OTC please refer to entries of the participating graduate units (Health Policy, Management and Evaluation, Nursing, Pharmaceutical Sciences and Rehabilitation Science).
2. JNT xxxx
Research and Policy Practicum
By working with a health services and policy research team, the student will develop practical skills in completing a research and policy project and effectively communicating the results of that research to stakeholders.
3. Summer Institute
The Summer Institute is a five-day workshop that takes place at one of the participating schools. All students are required to participate and will be graded on a Credit/No Credit (CR/NCR) basis. The first Summer Institute will be hosted by Lakehead University in the summer of 2004. The focus will be mental health and homelessness.

Admission requirements (Doctoral)

Students who are interested in applying to the Collaborative Program will be required to demonstrate the following: 1) academic excellence in completed graduate courses (B+ average in graduate courses), scholarships and academic awards received; 2) aptitude for health services and policy research (letter of recommendation from a previous professor or thesis supervisor, commenting on the student's academic abilities and likelihood for success as a health services researcher); 3) career plans (autobiographical letter describing why they want to become a health services researcher and their career plans); and 4) proposed plan of study in the Collaborative Program.

Program requirements (Doctoral)

Students are required to complete the requirements of the collaborative program (completion of a Practicum and participation in one Summer Institute) in addition to those requirements for the doctoral degree program in their home graduate unit (specified by each department). All students are required to complete a dissertation under the supervision of a Core Faculty member of the

Collaborative Program. The dissertation must address the theme of “health services and policy research”.

Courses of Instruction (Doctoral)

2. For courses of instruction offered by the University of Toronto departments involved in the OTC please refer to entries of the participating graduate units (Health Policy, Management and Evaluation, Nursing, Pharmaceutical Sciences and Rehabilitation Science).
2. JNT xxxx
Research and Policy Practicum
By working with a health services and policy research team, the student will develop practical skills in completing a research and policy project and effectively communicating the results of that research to stakeholders.
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