

Rehabilitation Science Graduate Program

Masters of Science Specialization Field **Orthopaedic Manipulative Physiotherapy (OMPT)**

This field in orthopaedic musculoskeletal/manipulative physiotherapy (OMPT) develops a specialization standard in orthopaedic musculoskeletal/manipulative physiotherapy clinical practice through three (3) required foundation courses (1/2 credit each), two (2) Clinical Specialty courses (1.5 total credits) and one (1) Research Project (1 full credit) over a two (2) to three (3) year timeline. The three (3) required foundation courses are *Evidence-based Practice*, *Clinical Reasoning*, and *Clinical Measurement*. The two (2) Clinical Specialty Credits include the *Advanced Orthopaedic Musculoskeletal/Manipulative Physiotherapy* course and the *Select Topics in Rehabilitation Science* course. The Research Project is independent research project worth one (1) credit. The objective is to advance scientific knowledge, clinical reasoning application, clinical and research skills development with a broad appreciation of the concepts of clinical measurement, and integrated evidence-based practice in OMPT practice.

MSc (RS) COURSE-BASED OPTION REQUIREMENTS

Link: <http://srs-mcmaster.ca/rehabilitation-science/orthopaedic-manipulative-physical-therapy-ompt>

COURSE TOPIC AND TIMELINES OFFERED

COURSE	TOPIC	CREDIT	TIMELINE OFFERING
RS705*	Evaluating Sources of Evidence	0.5	Sept 2016 or Jan 2016
RS706*	Measurement in Rehabilitation	0.5	Jan 2017
RS708*	Clinical Reasoning and Decision-Making	0.5	April 2017
RS703*	Select Topics in Rehabilitation Science	0.5	Can do this course any term.
RS715	Advanced Orthopaedic Musculoskeletal/ Manipulative Physiotherapy Specialization and Clinical Mentorship	1	Jan 2018
RS735	Rehabilitation Research Project	1	Can start this course at any term.
* Asterisk represents half (or 3 unit) courses		Total 4 credits	To be completed in two (2) to three (3) years

COURSE DESCRIPTION

REHAB 703* / Selected Topics in Rehabilitation Science

This selected topics course is designed to allow the development of courses that cover the leading edge of thinking about specific topics/issues in Rehabilitation Science. The specific topics will be developed in response to needs identified by faculty or students.

(Note: an example of a special topic might be to provide an increased understanding of evidenced based practice in orthopaedic rehabilitation with focus on two areas: methodological content and orthopaedic content. Methodological content to include: measurement (reliability, validity, responsiveness); diagnostic accuracy; and therapeutic effectiveness.) Students' knowledge will be advanced in select clinical topics of basic, behavioural & medical sciences relevant to neuro-musculoskeletal (MSK) disorders and apply knowledge to case management. Select topics may include: Pain Sciences (advanced physiology course – muscular & training physiology, respiratory physiology), essentials in Psychology screening for MSK rehabilitation, essentials in Medical Screening/Conditions for MSK rehabilitation, essentials in MSK Imaging, essentials in Pharmacology for MSK rehabilitation; MSK Spinal Conditions; Medicolegal issues in rehabilitation. The study of fields of neurophysiological and behavioural aspects of pain will be advanced. The medical and pharmaceutical management of MSK disorders will be explored. Emphasis will be placed on differential diagnosis at an advanced level for spinal disorders.

REHAB 705* / Evaluating Sources of Evidence

This course explores the value of evidence to rehabilitation practice, and how to assess and use evidence to make practice decisions that lead to best client outcomes.

REHAB 706* / Measurement in Practice

This course examines the theory of measurement, and the critical review, selection, interpretation and integration of outcome measures and assessment instruments in rehabilitation practice.

REHAB 708* / Reasoning and Decision-Making

Reasoning is the process by which rehabilitation practitioners consider alternatives and make decisions on a day to day basis. Guided by relevant conceptual frameworks, participants will practice strategies such as critical reflection, narratives, and assessment of the literature and other evidence to improve their reasoning and decision-making skills.

REHAB 715 / Advanced Orthopaedic Musculoskeletal/Manipulative Physiotherapy Specialization

This course is designed for graduate physiotherapists who want to obtain advanced clinical skills in orthopedic musculoskeletal/manipulative physiotherapy (OMPT) and is designed to comply with requirement of both the Canadian Physiotherapy Association's Clinical Specialty Program and international standards for accreditation. Students apply basic science and clinical evidence to advanced evidence-based clinical reasoning. Students will acquire advanced clinical skills in manipulative physiotherapy, therapeutic exercise and patient education using self-management techniques to provide comprehensive rehabilitation. This course will integrate advanced orthopedic assessment, vestibular screening, pain assessment, psycho-behavioral screening, neuromodular screening, diagnostics/prognosis, risk/causation assessment, and neuro-musculoskeletal treatment. It has a 150 hour clinical mentorship requirement including engagement in teaching and mentored clinical practice. Prerequisite: Level III Orthopaedic Division Canadian Physiotherapy Association Credentialing or equivalence; Two years clinical experience in specialty area; Co-requisites exist.

REHAB 735 / Rehabilitation Research Project

The Research Project in Rehabilitation provides experiential learning in the conduct of rehabilitation research. It will typically be initiated by students who have completed (or are concurrently completing) the measurement course, and ideally after taking a research methods course. Learners will develop research knowledge, skills and methodology through participation in research. Learners may identify a

mentor who is willing to supervise a research project of the learner's choice or choose from a menu of projects provided by faculty. External mentors must have a supervisory graduate appointment within The School of Rehabilitation Science or work with a co-mentor from the Rehabilitation Science faculty. Mentors may continue to work with learners to complete the submission process and follow-up, although this is not mandated and is a noncredit activity. This full course is specifically designed to allow the learner to conduct a small supervised research project in their area of interest. The expected outcome of this course is submission of a research paper that is ready for submission for publication.

FINANCIAL INFORMATION

Link: <http://www.srs-mcmaster.ca/Programs/RehabilitationScience/MScCourseBasedProgram/FinancialInformation/tabid/3448/Default.aspx>

The courses cost \$1449 per 1/2 course (1 term) and an annual part-time mandatory supplemental fee of \$528.73 (2013-2014 tuition fees). The supplementary fee is charged yearly and learners can opt out of the health and dental insurance, which reduces it significantly.

PREREQUISITES AND QUALIFICATION FOR ADMISSION

A candidate for this program must:

- hold a four (4) year pass or honours or graduate entry master or professional doctorate degree in physiotherapy;
- have completed five (5) years full-time relevant professional experience (or equivalent) with two (2) years in a speciality area;
- produce evidence of continuing professional education including Level II-III Exams, Intermediate Practical Exam, 90 mentorship hours from Canadian Physiotherapy Association (CPA) Orthopaedic Division or equivalent prior to initiating REHAB 715. Advanced standing for Orthopaedic Division Level IV/V are recognized; and,
- meet admission requirements to the M.Sc. (RS) Course-based Option or permission of the Program Coordinator.

REGISTRATION DEADLINE

September Admission is May 1; **January Admission** is September 1

SPECIALTY COURSE FACULTY

The clinical courses will be facilitated or mentored by leading Canadian experts or CPA certified clinical specialists.

REHAB: Special Topics Judith Hunter (PhD), Jack Miller (DSc), Timothy Wideman (PhD), Bill Parkinson (PhD), Michael Pierrynowski (PhD), Vicki Galea (PhD)

REHAB 715: OMPT Specialization Anita Gross (MSc) course coordinator; Laurie McLaughlin (DSc) clinical lab coordinator and facilitator; Pat Miller (PhD) curriculum consultant/evaluation; Joy MacDermid (PhD) research project; Lecturers included: Lisa Carlesso (PhD), LJ Lee (PhD), Greg Spadoni (MSc), Diane Lee (PT), Jackie Whittaker (PhD), Michael Westaway (DSc), Beth Kroetsch (MSc), Ashley Smith (PhD c), Geoff Schneider (PhD c), Kathryn Schneider (PhD c), Elaine Maheu (MSc c), Pat Fonstad (DSc); Sean Gibbons (PhD); Anita Gross (MSc) and others will give expert guidance during on-line modules.

PROFESSIONAL RECOGNITION

This Advanced OMPT Specialization field has requested to be officially monitored by Canadian Academy of Manipulative Physiotherapy (CAMPT) to ensure our program meets the International Federation of Orthopaedic Manual Therapists (IFOMPT) educational standards.

ADMISSION PROCESS

Detailed on website:

Link: <http://srs-mcmaster.ca/rehabilitation-science/orthopaedic-manipulative-physical-therapy-ompt>

CONTACT

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Rehabilitation Science (RS) Graduate Program

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Rehabilitation Science (RS) MSc Course-based Option

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Rehabilitation Science (RS) OMPT Field

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