

# SCHOOL OF PHYSICAL AND OCCUPATIONAL THERAPY

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## 1 Administration

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## 1.1 Administrative Officers

ABRAHAM FUKS, B.Sc., M.D., C.M.(McG.) F.R.C.P.(C)  
**Dean, Faculty of Medicine**

SHARON WOOD-DAUPHINEE, B.Sc.(P.T.), Dip.Ed., M.Sc.A.,  
Ph.D.(McG.) **Director**

EDITH ASTON-McCRIMMON, B.Sc.(P&O.T.), Dip.Ed.,  
M.Sc.A.(McG.) **Associate Director, Physical Therapy**

LAURIE SNIDER, B.Sc.(O.T.)(McG.), M.A.(Br.Col.), Ph.D.(Tor.)  
**Associate Director, Occupational Therapy**

ANNETTE MAJNEMER, B.Sc.(O.T.), M.Sc., Ph.D.(McG.)  
**Associate Director, Graduate Program**

HÉLÈNE MARION **Administrative Officer**

## 2 Staff of the School

### Professors

Hugues Barbeau; B.Sc.(P.T.), M.Sc., Ph.D.(Laval)  
Christina Hui-Chan; B.Phys.Ther., M.Sc., Ph.D.(McG.) (*Leave of absence*)  
Sharon Wood-Dauphinee; B.Sc.(P.T.), Dip.Ed., M.Sc.A., Ph.D.)

### Associate Professors

Edith P. Aston-McCrimmon; B.Sc.(P&O.T.), Dip.Ed.,  
M.Sc.A.(McG.)  
Erika Gisel; B.A.(Zur.), B.S.O.T., M.S., Ph.D.(Temple)  
Annette Majnemer; B.Sc.(O.T.), M.Sc., Ph.D.(McG.)  
Patricia McKinley; B.A., M.A., Ph.D.(U.C.L.A.)  
Diane St. Pierre; B.Sc.(P.T.)(McG.), M.Sc.(Montr.), Ph.D.(Montr.)  
Dorothy O.Thomas-Edding; B.Sc.(P&O.T.), Dip. Ed.P.T.,  
M.Sc.A.(McG.), Ph.D.(Tor.)  
Patricia Wells; Dip.Ed.(Tor.), B.Sc.(P.T.), M.Sc.A.(McG.)

### Assistant Professors

Joyce Fung; B.Sc.(P.T.)(Hong Kong Polytech. U), Ph.D.(McG.)  
Isabelle Gélinas; B.Sc.(O.T.)(Montr.), M.Sc.(Virginia),  
Ph.D.(Rehab.Sc.)(McG.)  
Nicol Korner-Bitensky; B.Sc.(O.T.), M.Sc., Ph.D.(McG.) (*part-time*)  
Nancy Mayo; B.Sc.(P.T.)(Queen's), M.Sc., Ph.D.(McG.) (*part-time*)  
Laurie Snider; B.Sc.(O.T.)(McG.), M.A.(Br.Col.), Ph.D.(Tor.)  
Ricardo Torres-Moreno; B.Sc.(Mexico), M.Sc.(S. Fraser),  
Ph.D.(Strathclyde)

### Faculty Lecturers

Sylvie Beaulieu; B.Sc.(O.T.)(Montr.), M.Sc.(Rehab.Sc.)(McG.)  
(*part-time*)  
Mary-Ann Dalzell; B.Sc.(P.T.), M.Sc.A.(McG.) (*part-time*)  
Sandra Everitt; B.Sc.(O.T.), M.A.(McG.) (*part-time*)  
Eva Lessard; B.P.T., B.Sc.(P.T.)(McG.) (*part-time*)  
Barbara Mazer; B.Sc.(O.T.)(Queen's), M.Sc.(McG.) (*part-time*)  
Bernadette Nedelec; B.Sc.(O.T.), Ph.D.(Alta.) (*part-time*)  
Beverlea Tallant; Dip. P&O.T.(Tor.), B.Sc.(O.T.)(McG.), M.A.,  
Ph.D.(C'ria) (*Leave of absence*)  
Louise Thouin; B.Sc.Ergoth(Montr.), (M.A.P.) (*part-time*)

### Professional Assistants

Abby Meinecke; B.Sc.(O.T.)(Br.Col.)  
Aliki Thomas; B.Sc.(O.T.)(McG.)

### Associate Members

Gauthier, S.G.; B.A., M.D.(Montr.), F.R.C.P.(C), Director, Centre for  
Studies in Aging, Dept. of Neurology and Neurosurgery, Dept.  
of Psychiatry, Dept. of Medicine

A.E. Grassino; M.D.(Rosario), Dept. of Medicine; Head,  
Respiratory Division, Université de Montréal  
J.A. Hanley; B.Sc., M.Sc.(Nat. U. Ireland), Ph.D.(Waterloo)  
J.L. Henry; B.Sc.(Tor.), M.Sc., Ph.D.(W.Ont.), Dept. of Anesthesia  
Research, Dept. of Physiology, Dept. of Psychiatry  
R.E. Kearney; B.Eng., M.Eng., Ph.D.(McG.) Chair, Biomedical  
Engineering Department  
R. Melzack; B.Sc., M.Sc., Ph.D.(McG.), Dept. of Psychology  
D. Pearsall; B.A., B.P.H.E., M.S., Ph.D.(Queen's)  
B. Rosenblatt; B.Sc., M.D.,C.M.(McG.), Dept. of Neurology and  
Neurosurgery  
D. Watt; M.D., Ph.D.(McG.), Director, Aerospace Medical  
Research Unit

#### Adjunct Professors

M. Bélanger; B.Sc., M.Sc.(Wat.), Ph.D.(Montr.)  
A. Beuter; M.Sc.(Wis.), Ph.D.(UCLA, Berkley)  
P.F. Gardiner; B.P.H.E., M.P.E.(Windsor), Ph.D.(Alta.),  
Département d'éducation physique, Université de Montréal  
M. Groher; B.A., M.A.(U. of Redlands), Ph.D.(Wash.)  
J. Held; B.Sc., P.T.(SUNY), Ed.D.(Columbia)  
S.M.Henry; B.S., P.T., Ph.D.(Vt)  
Lau, C. B.A. (UCLA, Berkeley), Ph.D. (U. of Illinois Medical Center)  
P. Weiss; B.Sc.(O.T.)(W.Ont.), M.Sc.(Wat.), Ph.D.(McG)  
J. Ivan Williams; B.Sc.(Nebraska Wesleyan), M.A.(N. Hampshire),  
Ph.D.(Florida State)

## 3 General Information

### 3.1 Professional Profiles

**Occupational Therapy.** An occupational therapist is a health care practitioner who examines the impact of occupational performance on health and quality of life. Occupation refers to activities which are meaningful to the individual within the environment in which the person lives and functions. The goal of occupational therapy is to promote a balance between the domains of self-care, productivity and leisure, in order to increase independent function, enhance development, and prevent disability and/or handicap.

In collaboration with their clients, who present across the lifespan from infancy to geriatrics, occupational therapists work to engage their clients in meaningful activities which enable them to face physical, emotional or social barriers, thereby improving performance. Intervention is at the level of the person, the environment, and interaction between them by promoting, restoring and maintaining health through occupation.

**Physical Therapy** is the art and science of rehabilitation, restoring independence and a maximal level of function to individuals with physical and psychological disorders. Physical therapists use exercise, heat, water, cold, ice, sound and electricity as well as assistive devices and artificial limbs to help individuals regain maximal functional potential. The physical therapist is a health professional who contributes to the multidisciplinary team through patient evaluation, treatment planning and delivery, education, research and consultation in clinics, industry and the community.

### 3.2 History of the School

In response to the marked need for rehabilitation specialists in Canada at the time of the Second World War, the School of Physiotherapy was started at McGill University in 1943. It was the first Canadian School to be under the aegis of a Faculty of Medicine. Initially, the School offered a two-year program in physiotherapy plus internship, upgraded to a three-year program in 1947.

In 1950, Occupational Therapy was introduced in a three-year combined Physical and Occupational Therapy diploma program, followed by two months of internship in each profession. The School was given its present name the following year. In 1954, McGill introduced Canada's first B.Sc. program in Physical and Occupational Therapy, together with separate diploma programs in Physical Therapy and in Occupational Therapy.

Due to the advancement of science and technology and to the increasing emphasis on health care needs of society, the programs have evolved, integrating a greater academic and scientific base over the ensuing decades. Thus the diploma programs were phased out, allowing for the creation of the B.Sc. degree in Physical Therapy in 1969, and the B.Sc. degree in Occupational Therapy in 1971. The School vigilantly and continually revises these science-based curricula, to prepare the best qualified graduates for entry into professional practice or advanced studies in rehabilitation.

At the graduate level, an M.Sc. (Applied) program in Health Science (Rehabilitation) was initiated in 1972 and formally approved in 1976. To provide the foundation for the development of a doctorate degree, it was changed from an applied to a thesis degree in 1982. The School now offers both an M.Sc. program in Rehabilitation Science and, since 1988, a Ph.D. program in Rehabilitation Science, the first of its kind in Canada.

### 3.3 Degrees Offered

#### Bachelor of Science in Occupational Therapy, B.Sc.(Occ.Ther.)

The B.Sc.(Occ.Ther.) academic/clinical program consists of seven semesters over three years following a Quebec Collegial Program in the Sciences or equivalent. Included are courses in science together with professional education in Occupational Therapy. Clinical experience is provided in the teaching hospitals of the Faculty of Medicine, McGill University, and other affiliated centres. One summer clinical semester of 12 weeks is completed during the summer preceding the final year. The clinical hours completed over the three-year/seven-semester program exceeds 1,000 hours. The credit weighting for this program is 105 credits.

#### Bachelor of Science in Physical Therapy, B.Sc.(Phys.Ther.)

The B.Sc.(Phys.Ther.) academic/clinical program consists of seven semesters over three years following a Quebec Collegial Program in the Sciences or equivalent. Included are courses in science together with professional education in Physical Therapy. Clinical experience is provided in the teaching hospitals of the Faculty of Medicine, McGill University, and other affiliated centres. One summer clinical semester of 12 weeks is completed during the summer preceding the final year. The clinical hours completed over the three-year/seven-semester program exceeds 1,000 hours. The credit weighting for this program is 105 credits.

**Please note:** Students who registered in the B.Sc.(Occ.Ther.) or the B.Sc.(Phys.Ther.) programs before 1994-95 and who have graduated no later than the Spring or Fall 1997 convocations would have completed a 93-credit program over three years requiring post-graduate internship prior to licensure. There were 600+ clinical affiliation hours done in those programs. (Please refer to the 1996-97 Calendar for details on those programs.)

#### Master of Science (Applied) in Rehabilitation Science

A two-year program in Rehabilitation Science (Applied) under the Faculty of Graduate Studies and Research is available to graduates who hold a B.Sc. or equivalent in Physical or Occupational Therapy or related health professions. Two years of clinical experience is required when applying for the M.Sc. (Applied). The program consists of required and elective course work and a directed practicum.

#### Master of Science in Rehabilitation Science

A two-year program in Rehabilitation Science is available under the Faculty of Graduate Studies and Research. The full curriculum consists of approximately two years of study for graduates who hold a Bachelor of Science degree in one of the medical rehabilitation disciplines or a related field. The program consists of required and elective course work and a research thesis.

#### Doctorate in Rehabilitation Science

A Ph.D. program in Rehabilitation Science is available under the Faculty of Graduate Studies and Research. The full curriculum

consists of three to four years of study, on average, for graduates with Master's level training in one of the medical rehabilitation disciplines or a related field. The program consists of required and elective course work, a comprehensive written examination, a research proposal and a doctoral thesis.

### 3.4 Requirements for Admission to Programs Leading to B.Sc.(Occ.Ther.) or B.Sc.(Phys.Ther.)

**ALL APPLICANTS** must complete at least 50 hours of volunteer or paid work in a health care facility or other appropriate rehabilitation environment. A letter of reference must be sent to attest to the service prior to August 1 of the entering year.

**Quebec applicants** who have obtained a Diploma of Collegial Studies are expected to have taken the following prerequisite courses; Biology 301 and 401; Chemistry 101, 201 and 202; Physics 101, 201, and 301; Mathematics 103 and 203.

**Applicants who have completed a minimum of one year of college/university studies (or equivalent)** are expected to have taken the following university/college-level prerequisite courses or their equivalent: two semesters of biology; two semesters of general chemistry; one semester of organic chemistry; two semesters of physics (including mechanics, electricity and magnetism, waves, optics), and two semesters of calculus (differential and integral). Consideration is given to both university work and previous studies.

**Applicants from the United Kingdom and Commonwealth countries** must have completed G.C.E. examinations at the Advanced Level in biology, chemistry, mathematics and physics and have achieved a grade of "C" or better in each, if they wish to be considered for admission directly into the program. Applicants who lack these qualifications but who meet the entrance requirements for the Faculty of Science may apply for admission to that Faculty. Upon completing one year of study in appropriate courses, they may apply for an inter-faculty transfer into Physical Therapy or Occupational Therapy (see below).

**Applicants with a French Baccalaureate** must have completed Series S with no courses failed; grades of "10" or better in mathematics, biological sciences and physical sciences are required.

**For all applicants in the above categories**, students will be admitted to a three-year, seven-semester program which includes a clinical semester to be completed during the summer preceding the final year. The credit weighting for this program is 105.

**McGill students applying for an inter-faculty transfer** must have completed a minimum of two semesters of study at McGill, taken all the prerequisite courses: two semesters of general chemistry, one semester of organic chemistry, two semesters of physics (including mechanics, electricity and magnetism, waves, optics), and two semesters of calculus (differential and integral); and have satisfied the paid/volunteer experience described above by March 31 of the entering year. Students applying for an inter-faculty transfer into the B.Sc. (Occ. Ther.) or B.Sc. (Phys. Ther.) programs should apply directly to the School of Physical and Occupational Therapy. Application forms are available from the School after January 5 of the year applying. The completed application form must be received by the School no later than March 31 of the entering year.

**NOTE:** McGill students who have completed fewer than 24 credits or who will have completed an undergraduate degree by August 1 of the entering year should address their application directly to the Admissions, Recruitment and Registrar's Office, James Administration Building.

**There is no entry to Physical or Occupational Therapy directly from high school. Entry via the four-year, nine-semester program, with a Science preparatory year (Pre-P.&O.T.) will be discontinued after acceptances for September 1999 entry have been completed.** Effective with the 2000-2001 academic year, Ontario OAC applicants and applicants who have completed Grade 12 in provinces other than Quebec and Ontario, graduates from Grade 12 in the United States and other countries, and applicants with the International Baccalaureate who wish to apply for

admission to Physical or Occupational Therapy must first complete the university/college-level prerequisite courses described above. Applicants who wish to study at McGill may apply for admission to the Faculty of Science. If they fulfil the requirements, they may then apply for an inter-faculty transfer into the first year of the Physical or Occupational Therapy program (for September 2001 or later).

### 3.5 Science Prerequisite Courses – McGill Inter-faculty Transfer

High school graduates from outside Quebec who have been accepted into a 120-credit Science program for 1999 must take the following courses during that Science preparatory year. Students in the "Pre-P.&O.T." year of 1999-2000 will be notified in June of the year 2000 if they have been accepted into Physical or Occupational Therapy for September 2000 based on their academic performance during the 1999-2000 session, and attaining a SGPA of 3.3 or better. **This option will not be available as of the year 2000.**

#### Fall Term

177-111A	(3)	Principles of Organismal Biology
180-120A	(4)	General Chemistry – Biological
189-139A	(4)	Calculus
or 189-140A	(3)	Calculus I
198-101A	(4)	Introductory Physics – Mechanics

#### Winter Term

177-112B	(3)	Cell and Molecular Biology
180-110B	(4)	General Chemistry – Biological
180-212B*	(4)	Organic Chemistry I
189-141B	(4)	Calculus II
198-102B	(4)	Introductory Physics – Electromagnetism

\* Alternatively, this course can be taken intensively in the summer term in the month of May, the recommended option. It can only be taken in the winter term by students who have a fall term overall average of B+.

High school graduates from outside Quebec who have been accepted into a 120-credit Science program **as of September 2000** who wish to transfer into Physical or Occupational Therapy after their first year must have taken the courses listed above **to be eligible to apply to transfer** into Physical or Occupational Therapy. Such students must apply directly to the School under the inter-faculty transfer program to enter the B.Sc.(Occ.Ther.) or B.Sc.(Phys.Ther.).

### 3.6 Application for Admission to Programs Leading to B.Sc.(Occ.Ther.) or B.Sc.(Phys.Ther.)

**With the exception of inter-faculty transfer, applications for admission must be made through the Admissions, Recruitment and Registrar's Office of the University.** The deadlines for submission of applications are: January 15 (applicants studying outside of Canada), February 1 (applicants from Canadian high schools outside of Quebec), March 1 (all other applicants). A non-refundable application fee of \$60 (Cdn) must accompany the application form.

Application to the School of Physical and Occupational Therapy can be made using the McGill electronic application which can be downloaded directly from the Web (<http://www.aro.mcgill.ca>). A printed application kit can also be ordered from that site. Those without access to the Web may obtain an electronic copy on diskette, or the application kit, by emailing, writing, or telephoning the Admissions, Recruitment and Registrar's Office.

The same Application Form is used to request admission to Agricultural and Environmental Sciences, Arts, Dietetics and Human Nutrition, Education, Engineering, Management, Nursing, and Science. A second choice of program may be entered on the form.

Applications are returned to the Admissions, Recruitment and Registrar's Office, McGill University, James Administration Building, 847 Sherbrooke Street W., Montreal, QC H3A 3N6. Telephone: (514) 398-3910. Email: [admissions@aro.lan.mcgill.ca](mailto:admissions@aro.lan.mcgill.ca).

### 3.7 Language Policy

The language of instruction at McGill is English. Some courses are offered in French. Every student has a right to write term papers, examinations and theses in English or in French except in courses where knowledge of a language is one of the objectives of the course.

It is recommended that students who lack proficiency in English or French avail themselves of the opportunity to take an intensive English or French as a Second Language course, prior to, or early in, their program of studies.

Entering students should be aware that most of the clinical affiliation placements require proficiency in both French and English.

### 3.8 Vaccination and CPR Requirements

Students in all health care programs must comply with the vaccination requirements described on [page 5](#) in the General Information section of this Calendar.

Valid CPR certification is required prior to going into any of the clinical affiliation placements. Proof of valid certification must be presented no later than January 30th of the first year of the program to enable the student to enter the first clinical affiliation in March of that year. This certification must be maintained through the three years of the program.

### 3.9 Prizes, Awards and Loans

#### UNDERGRADUATE PRIZES AND AWARDS

**CANADIAN PHYSIOTHERAPY ASSOCIATION AWARD** – presented to the student with the highest standing throughout the B.Sc. (Phys. Ther.) program.

**CANADIAN PHYSIOTHERAPY CARDIO-RESPIRATORY SOCIETY (CPCRS) STUDENT EXCELLENCE AWARD** – presented to the graduating student who has demonstrated excellence in the area of cardio-respiratory physiotherapy.

**CAROL RUTENBERG-SILVER MEMORIAL AWARD** – established by the family in memory of Carol Rutenberg-Silver, a Physical Therapy graduate of 1958. Awarded annually to the student with the highest standing in the final year of the B.Sc. (Phys. Ther.) program.

**CANADIAN ASSOCIATION OF OCCUPATIONAL THERAPISTS' AWARD** – presented to the student with the highest standing in theory throughout the B.Sc. (Occ. Ther.) program.

**HELEN M. GAULT AWARDS** – presented to a graduating student in Occupational Therapy and a graduating student in Physical Therapy who have demonstrated the most outstanding qualities of leadership, scholarship and professionalism throughout their undergraduate program.

**MCGILL ALUMNAE SOCIETY PRIZE** – \$150, presented upon graduation to a distinguished student for excellence and high academic standing. Preference given to women students.

**SANDRA PERLMAN MEMORIAL PRIZE** – \$150, established in memory of Sandra Perلمان, a graduate of the School of Physical and Occupational Therapy, P.T. class of 1958, and B.Sc. (Phys. Ther.) class of 1976 by her niece, Dr. Robyn Pugash. Awarded annually to the final year Physical Therapy student who, in the opinion of faculty, best exemplifies attributes desirable of a caring professional, these being compassion, empathy, concern for the needs of the patient and devotion to the profession.

**CLINICAL PRIZE OF EXCELLENCE** – awarded by L'Ordre des physiothérapeutes du Québec to the student demonstrating exceptional overall performance in attaining the objectives of the clinical placements throughout the B.Sc. (Phys. Ther.) program.

#### EMERGENCY LOAN

**JOYCE D. FIELD OCCUPATIONAL THERAPY STUDENT LOAN FUND** – established upon J.D. Field's retirement, in honour of her contributions to occupational therapy and the School as a clinical co-ordinator, administrator and teacher. Occupational therapy students who are in an acute financial crisis may apply to the Associate Director for an emergency loan from this fund.

### UNDERGRADUATE SCHOLARSHIPS

#### CLIFFORD C.F. WONG SCHOLARSHIP

#### 黃振輝獎學金

Value: \$1,300. Established in 1989 by the late Clifford C.F. Wong, B.Arch. (1960) to recognize distinguished academic standing. Awarded by the School of Physical and Occupational Therapy to a continuing student having completed at least one year in the Bachelor of Science program in Physical or Occupational Therapy.

**WOMEN ASSOCIATES OF MCGILL SCHOLARSHIP** – \$1,500 awarded on the basis of high academic standing to an undergraduate student having completed at least one year in the B.Sc. degree program in Physical or Occupational Therapy. Preference is given to women students.

#### SCHOOL OF PHYSICAL AND OCCUPATIONAL THERAPY SCHOLARSHIPS FUND

– established in 1992 by the University and by graduates and friends of the School to provide awards based on academic achievement to students in the top 5% of the School granted by the School of Physical and Occupational Therapy to equalize the value of awards to students of comparable standing. Awards range in value from \$100 to the level of the major entrance scholarships, in increments of \$100.

### GRADUATE FELLOWSHIPS

**JUDITH KORNBLOTH-GELFAND FELLOWSHIP** – minimum of \$2,000.00, established by her husband and Dynamic Capital Corporation as a tribute to Judith Kornbluth-Gelfand (P.T., Class of 1958 and B.Sc. P.T., class of 1976), in recognition of her interest in children suffering from neurological and neuromuscular disorders. It will be awarded by the School of Physical and Occupational Therapy to an outstanding graduate student conducting research studies to improve the efficacy of physiotherapeutic rehabilitation with preference to pediatrics, neurological and neuromuscular disorders.

**BARBARA ROSENTHAL PRIZE IN PHYSICAL AND OCCUPATIONAL THERAPY** – minimum \$225, established in 1992 as a tribute to Barbara Rosenthal's long-standing affiliation with the McGill School of Physical and Occupational Therapy and her devoted years of service to the practice of occupational therapy. Awarded to a full-time student in the Master's program in Rehabilitation Science with preference being given to an occupational therapist. The prize will be given by the School of Physical and Occupational Therapy on the basis of high academic standing during the first year of the program.

A complete list of scholarships, bursaries, prizes and awards, and the regulations governing the various loan funds are given in the *Undergraduate Scholarships and Awards Calendar* and in the *Graduate Fellowships and Awards Calendar*. These calendars may be obtained from the Admissions, Recruitment and Registrar's Office, James Administration Building, or accessed via the Office website (<http://www.aro.mcgill.ca>).

### 3.10 Licensing Regulations

Certain provinces in Canada and states of the United States of America require that those intending to practise occupational therapy or physical therapy within their borders comply with special provincial or state licensing regulations. Further information may be obtained from the offices of the associations listed in [section 3.11](#).

In order to practise occupational therapy or physical therapy in the province of Quebec, a permit must be obtained from the appropriate provincial regulatory body. Quebec law also requires that candidates seeking admission to the provincially-recognized Quebec regulatory bodies must possess a working knowledge of the French language, i.e., be able to communicate verbally and in writing in that language. For further information, refer to [page 4](#) of the General Information and Regulations section of this Calendar.

Occupational therapists practising in Canada (except Quebec and Manitoba) are required to pass a National Certification examination after graduation. For information, please write to: CAOT,

Carleton Technology Training Centre, Suite 3400, Carleton University, 1125 Colonel By Drive, Ottawa, ON K1S 5R1.

Physical therapists who graduated from 1993 onwards who wish to practise in some provinces in Canada (other than Quebec) are required to pass a Physiotherapy National Examination. As of January 1996, a Physiotherapy National Examination is mandatory for entry to practice in the provinces of British Columbia, Ontario and Prince Edward Island. For confirmation, please write to: Alliance of Physiotherapy Regulatory Boards, c/o College of Physiotherapy of Ontario, 10th Floor, 230 Richmond Street West, Toronto, ON M5V 1V6.

### 3.11 Professional Organizations

Students entering the McGill programs in 1995-96 or later will complete, within the program, all the clinical practice required to comply with the standards necessary for membership in both the national and provincial associations.

Students registered in the program prior to 1995 were required to complete further clinical practice in accredited occupational or physical therapy departments.

This standard is compatible with the licensing requirements in provinces where legislation is in force.

#### Canadian National Offices

Canadian Association of Occupational Therapists  
Carleton Technology Training Centre  
Suite 3400, Carleton University  
1125 Colonel By Drive, Ottawa, ON K1S 5R1  
Telephone: (613) 523-2268 Fax: (613) 523-2552

Canadian Physiotherapy Association  
(Toronto Office)  
2345 Yonge Street, Suite 410  
Toronto, ON M4P 2E5  
Telephone: (416) 932-1881 Toll Free: 1-800-387-8679  
Fax: (416) 932-9708  
E-mail: information@physiotherapy.ca

(Ottawa Office)  
1400 Blair Place, Suite 205  
Gloucester, ON K1J 9B8  
Telephone: (613) 564-5454 Fax: (613) 564-1577

Alliance of Physiotherapy Regulatory Boards  
230 Richmond Street West, 10th Floor  
Toronto, ON M5V 1V6  
Telephone: (416) 591-1784 Fax: (416) 591-3834

#### Quebec Provincial Offices

Ordre des ergothérapeutes du Québec  
2021 Union Street, Suite 920  
Montréal, QC H3A 2S9  
Telephone: (514) 844-5778 Fax: (514) 844-7462

Ordre des physiothérapeutes du Québec  
7101, Rue Jean-Talon est, bureau 520  
Anjou, QC H1M 3N7  
Telephone: (514) 351-2770 Toll Free: 1-800-361-2001  
Fax: (514) 351-2658

#### American National Offices

American Occupational Therapy Association Inc.  
1383 Piccard Drive, Suite 300  
Rockville, MD, 20850  
Telephone: (301) 948-9626 Fax: (301) 948-5512

American Physical Therapy Association  
1111 North Fairfax Street  
Alexandria, Virginia 22314-1488  
Telephone: (703) 684-2782 Fax: (703) 684-7343

### 3.12 Program Accreditation

The Physical Therapy Program has been accredited by the Canadian Physiotherapy Association and by the American Physical Therapy Association, enabling B.Sc.(Phys.Ther.) graduates to seek licensure in Canada and the United States. Each State sets

its own requirements for licensure which may necessitate a state examination, further course work and/or the TOEFL.

The Occupational Therapy program has been accredited by the Canadian Association of Occupational Therapists, enabling B.Sc.(Occ.Ther.) graduates to seek certification in Canada. Graduates seeking licensure in the United States will write the National Board for Certification in Occupational Therapy (NBCOT) certification examination. Each state sets its own requirements for licensure which may necessitate further course work, examinations and/or the TOEFL.

## 4 Regulations Governing Attendance, Advancement and Examinations

### 4.1 Attendance and Term Work

Students will not be permitted to write an examination in any course unless they have fulfilled the requirements of the course, including those of attendance, to the satisfaction of the instructor and the Associate Director of the Program.

It is the responsibility of the students to make sure at the time of registration that there is no conflict in the timetable of the courses which they propose to follow.

Students are required to attend lectures regularly if the faculty so rules and are required to attend practical classes and laboratories. Students who miss more than three practical classes or laboratories in a course without one of the legitimate excuses will not be permitted to take the final examination. Attendance will be taken at all practical classes. Reasons for absences are dealt with only by the Associate Director. For illness necessitating an absence of a week or more, a medical certificate should be presented to the Office of the Associate Director immediately after a student's return to normal attendance. Other legitimate absences include participation in an event on behalf of McGill University or a family tragedy. The instructor must be notified in advance of the event, if at all possible.

Students arriving late for lectures may be denied entrance by the instructor.

### 4.2 Credit System

All courses carry a credit rating. A total of 105 credits must be passed for a B.Sc. degree in Occupational Therapy or in Physical Therapy. (The curriculum was revised effective September 1995, students registered in the Programs prior to that date were required to complete 93 credits.)

Courses are graded either by letter grades or in percentages, with the following correspondence and grade point equivalents:

Letter Grade	Percentage	Grade point
A	85 – 100	4.0
A-	80 – 84	3.7
B+	75 – 79	3.3
B	70 – 74	3.0
B-	65 – 69	2.7
C+	60 – 64	2.3
C	55 – 59	2.0
D	50 – 54	1.0
F (Fail)	0 – 49	0

The earned grade point for each course is calculated by multiplying the credit rating of the course by the numerical equivalent of the letter grade earned. Standing will be determined on the basis of a grade point average (GPA) computed by dividing the sum of the grade points accumulated during the year by the total course credits attempted.

The cumulative grade point average (CGPA) will be the grade point average calculated using the student's entire record in the program. A failed course will continue to be used in the calculation of the CGPA even after the course is repeated and passed, or if a supplemental examination is taken.

**LETTER GRADES**

- \*\*J** – Unexcused absence (failed) the student is registered for a course but does not write the examination or do other required work; calculated as a failure in the GPA and CGPA.
- K** – Incomplete; deadline extended for submission of work in a course (see incomplete courses).
- K\*** – Further extension granted (see incomplete courses).
- KF** – Failed to meet the extended deadline for submission of work in a course; counts as a failure in the GPA and CGPA.
- L** – Deferred examination.
- L\*** – Permitted to defer examination for more than the normal period.
- P** – Pass
- Q** – Course continued in next term.
- S** – Satisfactory, equivalent to C or better in an elective course; not included in GPA.
- U** – Unsatisfactory, equivalent to D or F in GPA in an elective course; not included in GPA.
- W** – Withdrew; a course dropped, with permission, after the change of course period; not included in GPA.
- WF** – Withdrew failing; a course dropped, with special permission in exceptional case, after school deadline for withdrawal from course, the student's performance in the course at that stage being on the level of an F, not included in GPA.
- WL** – Faculty permission to withdraw from a deferred examination.
- &&** – Grade not yet available (no averages calculated).
- – No grade; student withdrew from the university.

**\*\*** Students may appeal the assignment of the grade of J, but circumstances such as appearing at the incorrect time for an examination would not normally be sufficient reason for this grade to be replaced by a deferral. Students who have earned sufficient marks to pass the course even though the final examination is not written, may opt to have their grade based on the record to date.

**4.3 Satisfactory/Unsatisfactory Option**

As of September 1994, students may designate one non-required elective Arts or Science course per term to be graded under the Satisfactory/Unsatisfactory option. A maximum of 10% of a student's credits taken at McGill to fulfill the degree requirements may be taken in this way. Grades will be reported in the normal fashion by the instructor and those of A through C will be converted to "Satisfactory" (S), and grades of D and F will become "Unsatisfactory" (U). The decision to have an elective course graded as Satisfactory/Unsatisfactory must be made by the student before the end of the Drop/Add period and no change can be made thereafter. The courses taken under the Satisfactory/Unsatisfactory option will be excluded from the grade point average calculations, but they will be included in the number of credits attempted and completed.

**NOTE:** This option has very limited application in the School of Physical and Occupational Therapy and does not apply to required or complementary courses, or professional courses with the designation of 580, 581, and 582. Students should seek guidance from the Associate Director if they are considering this option.

To be considered for in-course awards and/or the renewal of entrance scholarships, students must complete at least 27 graded credits in the regular academic session exclusive of courses completed under the Satisfactory/Unsatisfactory option.

**4.4 Academic Advancement**

There are two categories of standing: Satisfactory and Unsatisfactory.

A student who has fulfilled the course requirements for each year of the program and maintains a GPA of 2.3 or above is in Satisfactory Standing and may continue in the program.

Full time students in Satisfactory Standing take between 12 and 18 credits per term. A load of 19 credits per term is permitted for students whose GPA is above 3.0.

A GPA of less than 2.3 places a student in Unsatisfactory Standing. Students must withdraw from the School.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of the instructors, the student is incompetent.

**COURSE REQUIREMENTS FOR ACADEMIC ADVANCEMENT**

Advancement to the next year of the program is dependent on the student having taken all the prescribed courses in one particular year and having passed them at the designated grade level stipulated as follows:

- at least a C+ in courses specific to the profession including each course section for course designations of 580, 581 and 582;
- at least a C in all other courses;
- a P (Pass) for the clinical courses 580-220B and 581-220B and at least a B in 580-320C, 581-320C, 580-321C, 581-321C, 580-420A, 581-420A, 580-422B, and 581-421B. Please refer to the P&OT U1 Course Guide, 1999-2000 edition, for the P (Pass) requirements.

**Supplemental Examination Requirements**

Students who do not obtain the designated passing grade in a course may be granted the privilege of taking a supplemental examination by the Promotions Committee subject to the following conditions:

- The grade point average of the student is 2.3 or higher in the particular academic year, and
- that not more than seven (7) credits of supplementals be permitted for the particular academic year;
- For professional courses (course designation 580, 581, or 582) in which the student has received less than a C+ grade, the supplemental, if granted, must be taken the next time it is given. If, at that time a grade of C+ or better is not obtained, the course can be repeated once. After one course repetition, if a grade of C+ or better is not obtained, the student must withdraw from the program.
- Any student obtaining a D, F or U in any required Science course, or Arts or Science complementary or elective course may be granted permission to take a supplemental, subject to a) and b) above. If, at that time, a grade of C or better is not obtained, the course must be repeated. Another elective course may be substituted for a failed elective course.
- In professional courses (course designation 580, 581, or 582) which are subdivided into sections, each section must be passed with a grade of C+ or better. If a student obtains less than a C+ grade in a section when the overall course mark is C+ or better, the course mark will be withheld from the record until proficiency in each section, as evidenced by a grade of C+ or better is obtained. The student must undertake a second evaluation of the section before the next academic year. If the student still fails to obtain a grade of C+ or better in the section, the section must be repeated the next time the course is offered and the evaluation done at the next regularly scheduled time. Once that student obtains a grade of C+ or better in that section, the original course mark will be recorded. If the section is not passed with a grade of C+ or better after one repetition, the mark for the course will be changed from a K to a KF. This will require the student to withdraw from the program.
- The supplemental exams for failed professional courses in Year 1, Term A which are pre-requisite to Clinical Affiliation I (580-220B or 581-220B) will be given during the first week of the U1 clinical block starting in March. If the student passes that supplemental exam with a C+ or better, the student will be placed in a 5 week rotation. The 6th week will have to be made up in Year II or III. The timing of the make-up week will be at the discretion of the respective Academic Coordinator of Clinical Education (ACCE). If the student does not pass the supplement-

tal exam for the failed pre-requisite course with a grade of C+ or better, the student may not continue in the professional part of the program. The failed pre-requisite course can be repeated the next time it is given. If a grade of C+ or better is attained, the student may then continue in the program. If a grade of C+ or better is not obtained after that course repetition, the student must withdraw from the program.

Satisfactory standing in all required professional courses and clinical placements each year is mandatory to be able to continue in either the Physical or Occupational Therapy programs. The designated clinical courses in the programs are: 581-220B, 581-320C, 581-321C and 581-420A and 581-422B in Physical Therapy and 580-220B, 580-320C, 580-321C and 580-420A and 580-422B in Occupational Therapy. Students must pass all designated prerequisite and required professional courses preceding any clinical placement. If a student fails a clinical placement, one remedial clinical placement is allowed. Remedial placements will be arranged at the discretion of the respective program Academic Coordinator of Clinical Education (ACCE). Given the nature of clinical placement, students are warned that a repeated placement cannot be identical to a failed one. Subsequent failures in any clinical course will result in the student being required to withdraw from the program.

In order to advance into Year 2, the Year 1 clinical course 580-220B or 581-220B must be completed satisfactorily. If a remedial placement is required for this course, it must be completed successfully during June, July or August prior to the commencement of Term A in Year 2.

If a student fails and therefore repeats a clinical placement in Year 2, the student's program will be extended for one or more additional terms. Please refer to the Physical or Occupational Therapy U2 course guide, 1999-2000 edition, for the conditions for academic advancement within the clinical program.

#### 4.5 Degree Requirements

Students in Occupational or Physical Therapy must complete a total of 105 course credits for the degree of B.Sc.(Occ. Ther.) or the degree of B.Sc.(Phys. Ther.) (i.e., passed courses whose credit total is 105), have passed satisfactorily all professional courses, and have a CGPA of at least 2.3 at McGill.

#### 4.6 Academic Credit Transfer Agreement

In certain cases, credits may be granted by the School for courses taken at other universities. Approval by the Associate Director is necessary and should generally be obtained in advance. The Inter-University Transfer Agreement form is available from the Admissions, Recruitment and Registrar's Office, James Administration Building.

#### 4.7 Examinations

Instructors are not permitted to grant any special treatment regarding examinations to any student. Faculty requires all instructors to decline to discuss marks with students before their official publication.

#### Interim Class Tests and Mid-Term Examinations

Members of the teaching staff may give interim class tests if they consider them necessary. The class will be advised at the beginning of the course when they will occur with the mark allocation. Students will be informed of all course requirements by the end of the course change period. The timing of the class tests is at the discretion of the professor, but no written tests will be given during the last two weeks of the term, except where a pattern of continued evaluation has been established, in which case the total value of examinations given in this period shall comprise no more than 10% of the final mark.

Mid-term examinations for one semester courses (A/B) are given close to the middle of the term. In full year (D) courses, instructors who wish to give a mid-term examination in December, must schedule it in the formal examination period. The marks or letter

grades may be posted by the instructor. Make-up examinations follow the same rules as for class tests.

#### Final Examinations

Final examinations must be held during the official examination period following the term in which the course is given, and shall be worth at least 25% of the overall mark. This holds true for written, oral and practical examinations. For oral examinations, verbal feedback may be given to the students regarding their performance, but no marks will be provided during the examination. Marks for final examinations are presented to the Promotions Committee. Following the Promotions Meeting, marks will be available on MARS. In some courses there is no final examination; the standing in these courses is determined on the basis of term work and class tests.

#### Supplemental Examinations

Students who have failed an examination and who have been given permission to write a supplemental examination *must avail themselves of this privilege at the time of the next supplemental period*. The supplemental examinations for A term courses are held at the end of the regular spring examination period.

**For students in U1**, the supplemental exams for failed professional courses in Term A which are pre-requisite to Clinical Affiliation I (581-220B or 580-220B) will be given during the first week of the U1 Clinical Block starting in March. Supplemental examinations for other failed U1 Term A & B professional courses will normally be held during the first two weeks of June following the Integration Block. Supplemental examinations for Term A campus courses will normally be held during the Spring supplemental period in April. Supplemental examinations for Term B campus courses including Physiology 202B are written in the official supplemental period in August.

**For students in U2 and U3**, supplemental examinations for failed Term A courses will be held at the end of the regular spring examination period. Supplemental examinations for failed Term B professional courses are given around the 3rd week in May. Supplemental examinations for Term B campus courses are written in the official supplemental period in August.

Written application to write a supplemental examination must be received at the Student Affairs Clerk's Office at least 30 days before the examination period. The \$35 supplemental exam fee is payable to the Student Accounts Office as soon as the application has been approved.

It should be noted that the supplemental result will not erase the D or F mark originally obtained which was used in calculating the GPA. Both the original mark and the supplemental result will be calculated in the CGA (i.e., the taking of a supplemental examination has the same effect on a student's GPA as does repeating the course).

#### Deferred Examinations

A student, who, for reasons such as illness or family affliction, verified and accepted by the Associate Director's Office, has been unable to write one or more examinations, may receive permission to write deferred examinations, which normally will be written in the next supplemental examination period. The Associate Director's Office must be informed within one week of the examination of the reasons for absences. Student Health Service may be required to verify a medical certificate. An L will appear on the Report of Standing in place of a grade in such courses. It will be replaced by the grade obtained in the deferred examination on official transcripts.

#### Reassessments and Rereads

Papers are marked and grades calculated and handled with considerable care. However, if students wish the calculation of marks checked (reassessment) or a formal final examination paper reread, they should apply in writing to the Associate Director of Occupational Therapy or Physical Therapy.

Reassessment is done free of charge by the instructor concerned. If there is no change in the grade as a result of a reassess-

ment, and if there was a formal final examination in the course, the student may apply for a formal reread of the final examination paper, for which there is a \$35 fee. Grades may be either raised or lowered as the result of a reread. Computer marked exams can be reassessed but not re-read. The official reread request form is available from the Student Affairs Coordinator in room 20, Davis House. The form must be submitted directly to the Associate Director of the Program.

Application for reassessments must be made by January 31 for A courses, by June 30 for B and D courses, and October 15 for C courses. Requests for reassessments or rereads in more than one course per term will not be permitted.

Reassessments or rereads in courses not given by the School of Physical and Occupational Therapy are subject to the deadlines, rules and regulations of the particular faculty offering the course.

Any request to have term work re-evaluated must be made directly to the instructor concerned.

### Incomplete Courses

If, in the instructor's opinion, there is sufficient reason to permit a delay in the submission of required term work, an extension of deadline of up to four months after the end of the course may be granted to the student. In this case, the instructor will submit a grade of K (incomplete). If a new grade is submitted within the deadline by the instructor, this will appear on the student's faculty reports and verification forms following the K and will replace the K on the student's official transcript.

If the required work is not completed before the deadline the grade of KF will be recorded in the same way as the grade above. (KF denotes a failed course and has the same effect on the GPA as an F.)

In exceptional circumstances, and with the approval of the Associate Director, the four month deadline may be extended further, in which case the grade of K\* will appear.

Students who have not, without an accepted excuse, participated or written the final examination in a course for which they have registered may be given a grade of J (absent).

### Plagiarism and Cheating

In submitting work in their courses, students should remember that plagiarism and cheating are considered to be extremely serious offences. If students have any doubt as to what might be considered "plagiarism" in preparing an essay or term paper, they should consult the guidelines on plagiarism as set out in the course guides.

The Code of Student Conduct and Disciplinary Procedures includes sections on plagiarism and cheating. The Code may be obtained from the Dean of Students' Office or from the Admissions, Recruitment and Registrar's Office.

## 5 Undergraduate Courses of Instruction

### CURRICULUM FOR THE PHYSICAL AND OCCUPATIONAL THERAPY PROGRAMS.

Year 1 students accepted into Occupational Therapy or Physical Therapy are registered in a 105-credit program.

#### 5.1 Occupational and Physical Therapy Programs

These programs are made up of 105 credits to be completed in three years over seven semesters including a clinical affiliation of 1,000 hours. A clinical semester will be completed during the summer preceding Year 3. The curriculum incorporates the use of academic and clinical teaching blocks throughout the programs:

Year 1 starts in September and finishes on May 31.

Year 2 will be composed of three full-time semesters:  
Fall, Winter and Summer.

Year 3 will be made up of Fall and Winter semester blocks.

NOTE: The letters which form part of course numbers have the following significance:

- A – fall term
- B – winter term
- D – fall and winter term
- C – summer session courses starting in May

The course credit weight appears in parentheses (#) after the number.

### 5.2 Occupational Therapy Program

#### U1 Required Courses (32 credits)

504-315A	(4)	Regional Anatomy of the Limbs and Back
504-316B	(2)	Human Visceral Anatomy
552-201A	(3)	Human Physiology: Control Systems
552-202B	(3)	Human Physiology: Body Functions
580-235A	(3)	Occupation as Therapy
580-236B	(4)	OT Practice I: Musculoskeletal
580-240B	(2)	Assessment of Performance I
582-222B	(3)	Kinesiology
582-239A	(2)	Assessment in Rehabilitation I
582-250A/B	(2)	Health Care and Professionalism I
582-251A/B	(2)	Health Care and Professionalism II
582-260A	(2)	Life Span
580-220B	(0)	Clinical Affiliation I

#### U2 Required Courses (37 credits)

504-321A	(3)	Circuitry of the Human Brain
582-455A	(3)	Neurophysiology
580-335A	(2)	OT Practice II: Neurological Conditions
580-336B	(4)	OT Practice II: Neurological Conditions
580-337A	(3)	OT Practice III: Psychiatry
580-338B	(3)	OT Practice IV: Mental Health
580-339B	(2)	Strategies for Independent Living
580-340A	(2)	Assessment of Performance II
580-341B	(3)	Assessment of Performance III
580-320C	(6)	Clinical Affiliation II
580-321C	(6)	Clinical Affiliation III

#### U2 Complementary Courses (6 credits)

Two from a selected list of courses offered by the Faculties of Arts and Science

#### U3 Required Courses (28 credits)

582-401A	(3)	Research Methods
580-424A	(2)	Splinting & Orthotics
580-436A	(3)	OT Practice V: Medical and Surgical
580-437D	(3)	OT & Community Mental Health
580-438A	(3)	Psychosocial Theories in OT
580-440B	(2)	Pre & Vocational Rehabilitation
580-441B	(2)	Advanced Technology/Ergonomics
582-445B	(4)	Administration/Management
580-420A	(3)	Clinical Affiliation IV
580-422B	(3)	Clinical Affiliation V

#### U3 Complementary Courses (2 credits)

One from a list of professional specialty courses offered by the School

### 5.3 Physical Therapy Program

#### U1 Required Courses (32 credits)

504-315A	(4)	Regional Anatomy of the Limbs and Back
504-316B	(2)	Human Visceral Anatomy
552-201A	(3)	Human Physiology: Control Systems
552-202B	(3)	Human Physiology: Body Functions
581-235A	(3)	Movement Science and Practice
581-236B	(4)	Movement I: Musculoskeletal
581-241B	(2)	Assessment II: Musculoskeletal
582-222B	(3)	Kinesiology
582-239A	(2)	Assessment in Rehabilitation
582-250A/B	(2)	Health Care and Professionalism I
582-251A/B	(2)	Health Care and Professionalism II



582-260A	(2)	Life Span
581-220B	(0)	Clinical Affiliation I
<b>U2 Required Courses</b> (33 credits)		
504-321A	(3)	Circuitry of the Human Brain
582-455A	(3)	Neurophysiology
581-328B	(2)	Biophysical Agents
581-336B	(3)	Movement II: Cardiorespiratory
581-337A	(3)	Movement III: Neuromuscular
581-338B	(4)	Movement IV: Neurological
581-340B	(3)	Exercise Physiology
581-320C	(6)	Clinical Affiliation II
581-321C	(6)	Clinical Affiliation III

**U2 Complementary Courses** (9 credits)

Three from a selected list of courses offered by the Faculties of Arts and Science.

**U3 Required Courses** (27 credits)

582-401A	(3)	Research Methods
581-432A	(3)	Pain Management
581-433A	(3)	Coordinated Rehabilitation I
581-434A	(3)	Biomechanics
581-420A	(3)	Clinical Affiliation IV
581-421B	(3)	Clinical Affiliation V
581-435B	(3)	Coordinated Rehabilitation II
581-438B	(2)	Fitness/Injury Management
582-445B	(4)	Administration/Management
582-446A/B	(2)	Current Topics in Rehabilitation
582-447B	(2)	Specialized Areas of Practice

**5.4 Description of Year 1 Courses for Occupational and Physical Therapy**

The course credit weight appears in parentheses (#) after the name.

**FACULTY OF SCIENCE COURSES**

**504-315A REGIONAL ANATOMY OF THE LIMBS AND BACK.** (4) (2 hours lectures, 4 hours laboratory) (Open to students in P&OT, and to Honours students in Anatomy and Cell Biology, with permission of instructor). A prosection/dissection course in regional human gross anatomy of the skeleton, joints, muscles and neurovascular structures of the limbs and back, and functional anatomy.

**504-316B HUMAN VISCERAL ANATOMY.** (2) (1.5 hour lecture, 2 hours laboratory for 9 weeks) (Prerequisite: 504-315A. Open to students in P&OT and to others by special permission). The gross anatomy of the various organ systems of the human body, with emphasis on those aspects of greatest relevance to physical and occupational therapists. Laboratories include studies of prepared specimens, use of the anatomical museum and audiovisual materials.

**552-201A HUMAN PHYSIOLOGY: CONTROL SYSTEMS.** (3) (3 hours lecture weekly) (Prerequisites: collegial courses in Biology or Anatomy, and in Chemistry and Physics, with Organic Chemistry 180-212 or equivalent, as a pre- or co-requisite. For students in P&OT, Nursing, and others with permission of the course coordinator; not open to students who have taken 552-209A). Physiology of body fluids, blood, nerve and muscle, peripheral nerves, central nervous system, special senses, autonomic nervous system, defense mechanisms.

**552-202B HUMAN PHYSIOLOGY: BODY FUNCTIONS.** (3) (4.5 hours lecture weekly for 9 weeks) (Prerequisites: collegial courses in Biology or Anatomy and in Chemistry and Physics, with Organic Chemistry (180-212 or equivalent) as a pre- or co-requisite. For students in P&OT, Nursing, Education, and others with permission of the course coordinator. Not open to students who took 552-201A in 1976-77 or earlier, or 210B). Physiology of the cardiovascular, respiratory, excretory, endocrine, and digestive systems; organic and energy metabolism; nutrition; exercise and environmental stress.

**JOINT COURSES IN PHYSICAL AND OCCUPATIONAL THERAPY**

**582-222B KINESIOLOGY.** (3) (15 hours/week lecture/seminar/laboratory for 3 weeks.) Introduction to the analysis of normal and pathological human movement including anthropometrics, kinematics, muscle mechanics, instrumentation and computers.

**582-239A ASSESSMENT IN REHABILITATION I.** (2) (4 hours lecture/laboratory for 13 weeks.) A theoretical and practical course which includes principles of measurement, history taking and physical assessment of the patient.

**582-250A/B HEALTH CARE AND PROFESSIONALISM I.** (2) (2 hours) This course will introduce the student to the practice of self-directed and life-long learning and will describe basic issues of professionalism and the health care system.

**582-251A/B HEALTH CARE AND PROFESSIONALISM II.** (2) (2 hours) Using lectures combined with small group sessions, this course will focus on communication and psychosocial issues in health, impairment, disability and handicap.

**582-260A LIFE SPAN.** (2) (2 hours) The course will describe the sequence and unique changes associated with physical, cognitive, language and psychosocial development occurring from conception to death.

**OCCUPATIONAL THERAPY COURSES**

**580-235A OCCUPATION AS THERAPY.** (3) (8 hours lecture/laboratory) A course covering the conceptual framework of occupational performance with practical applications to musculoskeletal conditions across the life span. The second part of the course will orient the student to assessments used by other team members.

**580-236B OT PRACTICE I: MUSCULOSKELETAL.** (4) (10 hours/week for 13 weeks – split into 10 weeks and 3 weeks.) A lecture/seminar/laboratory case-based course covering the planning and implementation of OT interventions for individuals of all ages with musculoskeletal conditions. The second part will focus on multidisciplinary client-centred rehabilitation.

**580-240B ASSESSMENT OF PERFORMANCE I.** (2) (1.5 hours lecture/2 hours lab for 10 weeks s.) A lecture/seminar/laboratory course covering the conceptual framework of occupational performance with practical applications to musculoskeletal conditions across the life span. The second part of the course will orient the student to assessments used by other team members.

**580-220B CLINICAL AFFILIATION I.** (0) (6 weeks, full-time) Supervised clinical practice provided in the teaching hospitals of the Faculty of Medicine and other affiliated centres; convalescent and home care facilities; specialized schools and community centres. The focus will be on the assessment and treatment of patients with musculoskeletal conditions.

**PHYSICAL THERAPY COURSES**

**581-235A MOVEMENT SCIENCE AND PRACTICE.** (3) (8 hours lecture/laboratory.) Theory and practice of exercise as a therapeutic agent, including how to move effectively and to teach an exercise will be explored across the lifespan. These skills will be integrated with basic concepts of the physiological effects of other physical agents used to enhance movement.

**581-236B MOVEMENT I: MUSCULOSKELETAL.** (4) (10 hours/week for 13 weeks – split into 10 weeks and 3 weeks) A case-based course covering the planning and implementation of physical therapy interventions for individuals of all ages with musculoskeletal conditions. Appropriate electrotherapeutic modalities will be covered. The second part will focus on multidisciplinary client-centred rehabilitation.

**581-241B ASSESSMENT II: MUSCULOSKELETAL.** (2) (2 hours/week for 10 weeks) A lecture and practical course which focuses on the soft tissue diagnoses of musculoskeletal disorders.

**581-220B CLINICAL AFFILIATION I.** (0) (6 weeks, full-time) Supervised clinical practice provided in the teaching hospitals of the Faculty of Medicine and other affiliated centres; convalescent and

home care facilities; specialized schools and community centres. The focus will be on the assessment and treatment of patients with musculoskeletal conditions.

## 5.5 Description of Year 2 Courses for Occupational and Physical Therapy

### FACULTY OF SCIENCE COURSE

**504-321A CIRCUITRY OF THE HUMAN BRAIN.** (3) (2 hours lectures, 2 hours laboratory/tutorial) (Prerequisite: at least one 3 credit university level course in biology or psychology.) This course explores the functional organization of the human brain and spinal cord. The course focuses on how neuronal systems are designed to subserve specific motor, sensory, and cognitive operations.

### JOINT COURSES IN OCCUPATIONAL AND PHYSICAL THERAPY

**582-455A NEUROPHYSIOLOGY.** (3) (3 hours/week) A study of the neurophysiological principles of sensori-motor interaction as they relate to posture, motor control and cognition.

### OCCUPATIONAL THERAPY COURSES

**580-335A OT PRACTICE II: NEUROLOGICAL CONDITIONS.** (2) (6 hours/week for 13 weeks.) A lecture, practical and case-based course covering neurological conditions across the lifespan. OT theory, principles of treatment and therapeutic use of activities for individuals with neurological dysfunctions will be included.

**580-336B OT PRACTICE II: NEUROLOGICAL CONDITIONS.** (4) (7 hours/week for 13 weeks.) A lecture, practical and case based course covering neurological conditions across the lifespan. OT theory, principles of treatment and therapeutic use of activities for individuals with neurological dysfunctions will be included.

**580-337A OT PRACTICE III: PSYCHIATRY.** (3) (4 hours lecture/week for 13 weeks.) A lecture, practical and case-based course covering psychiatric conditions across the lifespan. OT theory, principles of treatment and therapeutic use of self and activities will be applied for individuals or groups.

**580-338B OT PRACTICE IV: MENTAL HEALTH.** (3) (6 hours/week for 13 weeks) A lecture and small group course to include the theories of group dynamics and practical applications in the practice of occupational therapy as well as the theory projection and the therapeutic use of projective media for treating individuals or groups across the life span.

**580-339B STRATEGIES FOR INDEPENDENT LIVING.** (2) (3 hours/week lecture/laboratory for 13 weeks.) This course will focus on interventions including adaptive technology and environmental adjustments to maximize independent living in the home and community.

**580-340A ASSESSMENT OF PERFORMANCE II.** (2) (4 hours/week for 13 weeks) A theoretical and practical course to cover assessment and informed decision making in OT practice, as well as the assessment of psychosocial, neuromotor and perceptual/cognitive performance across the lifespan.

**580-341B ASSESSMENT OF PERFORMANCE III.** (3) (4 hours/week for 13 weeks) A theoretical and practical course to cover specialized assessment of psychological performance, social interactions, activities of daily living and the environment. Computerized assessment will be utilized.

**580-320C CLINICAL AFFILIATION II.** (6) (6 weeks, full-time)

**580-321C CLINICAL AFFILIATION III.** (6) (6 weeks, full-time) Supervised clinical practice provided in the teaching hospitals of the Faculty of Medicine and other affiliated centres; convalescent and home care facilities; specialized schools and community centres. The focus will be on the assessment and treatment of patients with neurological or psychological dysfunctions.

### PHYSICAL THERAPY COURSES

**581-328B BIOPHYSICAL AGENTS.** (2) (2 hours lecture/2 hours laboratory/tutorial) A lecture, practical and case-based course covering the biophysical principles and the neurophysiological bases

for the use of thermal agents and therapeutic electricity in the management of and the clinical decision-making in musculoskeletal and neurological conditions. The use of electrotherapeutic interventions in physical therapy will be explored on a case-by-case basis. (Awaiting University approval)

**581-336B MOVEMENT II: CARDIORESPIRATORY.** (3) (6 hours/week) A lecture, practical and case-based course consisting of pathology, clinical assessments and methods of physical treatment and rehabilitation of patients with cardio-respiratory dysfunction.

**581-337A MOVEMENT III: NEUROMUSCULAR.** (3) (9 hours/week) A theoretical and practical course which covers clinical assessments and applications of neurological principles to the management of clients with spinal dysfunction of an orthopaedic and/or neurological origin across the life span.

**581-338B MOVEMENT IV: NEUROLOGICAL.** (4) (9 hours/week) A theoretical and practical course which covers clinical assessments and applications of neurological principles to the management of clients with neurological dysfunction across the life span. The emphasis will be on motor control. Electrotherapeutic modalities will be incorporated.

**581-340B EXERCISE PHYSIOLOGY.** (3) (3 hours/week) A lecture course to include the effects of exercise and training of neuromuscular, cardiovascular and respiratory systems in health and disease.

**581-320C CLINICAL AFFILIATION II.** (6) (6 weeks, full-time)

**581-321C CLINICAL AFFILIATION III.** (6) (6 weeks, full-time) Supervised clinical practice provided in the teaching hospitals of the Faculty of Medicine and other affiliated centres; convalescent and home care facilities; specialized schools and community centres. The focus will be on the assessment and treatment of individuals with neurological and cardio-respiratory conditions.

## 5.6 Description of Year 3 Courses for Occupational and Physical Therapy

### JOINT COURSES IN OCCUPATIONAL AND PHYSICAL THERAPY

**582-401A RESEARCH METHODS.** (3) (4.5 hours/week for 9 weeks) A lecture and seminar course on the principles of and methods used in clinical and rehabilitation science research.

**582-445B ADMINISTRATION/MANAGEMENT.** (4) (7 hours/week for 8 weeks) A lecture and seminar course to include Health Care administration, marketing and the development of leadership and entrepreneurial skills.

### OCCUPATIONAL THERAPY COURSES

**580-420A CLINICAL AFFILIATION IV.** (3) (5 weeks, full-time) Supervised clinical practice provided in the teaching hospitals of the Faculty of Medicine and other affiliated centres and in convalescent, chronic and home care facilities, specialized schools, clinics and community centres.

**580-422B CLINICAL AFFILIATION V.** (3) (5 weeks, full-time) Supervised clinical practice provided in the teaching hospitals of the Faculty of Medicine and other affiliated centres and in convalescent, chronic and home care facilities, specialized schools, clinics and community centres.

**580-424A SPLINTING & ORTHOTICS.** (2) (4.5 hours/week for 9 weeks) A course covering knowledge of therapeutic techniques and biomechanical principles involved in the application and fabrication of static and dynamic splints.

**580-436A OT PRACTICE V: MEDICAL & SURGICAL.** (3) (4.5 hours/week for 9 weeks) A lecture, practical and case-based course covering medical and surgical conditions across the lifespan. OT theory, principles of treatment and therapeutic use of activities in the OT treatment of these conditions will be discussed.

**580-437D OT & COMMUNITY MENTAL HEALTH.** (3) (2.5 hours/week for 17 weeks) A lecture, case-based and seminar course which examines the preventive and educational role of the OT in

mental health as applied to sociocultural issues and their relationship to violence and despair within the community.

**580-438A PSYCHOSOCIAL THEORIES IN OT.** (3) (4.5 hours/week for 9 weeks) A lecture, case-based course to examine current theoretical frames of reference in OT in the field of psychiatry and their implementation into OT treatment. Particular emphasis will be placed on the long term client.

**580-440B PRE & VOCATIONAL REHABILITATION.** (2) (3.5 hours/week for 8 weeks) An introduction to work theory and its application to prevocational and vocational assessment and training in rehabilitation. The application of ergonomics to rehabilitation will be discussed in a case-based context.

**580-441B ADVANCED TECHNOLOGY/ ERGONOMICS.** (2) (3.5 hours/week for 8 weeks) Technological approaches to performance enhancement through matching technology to individual human needs as well as the social and professional issues regarding technology service delivery will be dealt with in a lecture/lab/seminar format.

### PHYSICAL THERAPY COURSES

**581-420A CLINICAL AFFILIATION IV.** (3) (5 weeks, full-time) Supervised clinical practice provided in the teaching hospitals of the Faculty of Medicine and other affiliated centres and in convalescent, chronic and home care facilities, specialized schools, clinics and community centres.

**581-421B CLINICAL AFFILIATION V.** (3) (5 weeks, full-time) Supervised clinical practice provided in the teaching hospitals of the Faculty of Medicine and other affiliated centres and in convalescent, chronic and home care facilities, specialized schools, clinics and community centres.

**581-432A PAIN MANAGEMENT.** (3) (4.5 hours/week for 9 weeks) A case-based course to include the assessment and management of acute and chronic pain. Appropriate electrotherapeutic modalities will be included.

**581-433A COORDINATED REHABILITATION I.** (3) (4.5 hours/week for 9 weeks) A theme-based study of the interdisciplinary approach to rehabilitation. Themes will include health care issues across the lifespan, special problems of adolescents and the aged as well as maternal and child health. The focus is on long-term management.

**581-434A BIOMECHANICS.** (3) (4.5 hours/week for 9 weeks) A lecture-based course covering the application of physics, engineering and technological principles of the study of the human body in health or disease at the behavioural and environmental level. The focus of this course will be on how these principles relate to clinical evaluation and rehabilitation.

**581-435B COORDINATED REHABILITATION II.** (3) (5 hours/week for 8 weeks) A theme-based study of selected topics and current and developing issues in rehabilitation such as AIDS, necrotizing myofasciitis, oncology, burn management and industrial health. The focus is on long-term management.

**581-438B FITNESS/INJURY MANAGEMENT.** (2) (4 hours/week for 8 weeks) The focus of this lecture, seminar and practical course is on fitness and injury prevention as a means of promoting an active lifestyle across the lifespan.

### 5.7 Professional Speciality Courses – Descriptions

The following courses are open to senior students in the School of Physical and Occupational Therapy by permission of the Associate Directors of the undergraduate programs. These courses may be taken as part of the undergraduate program in Occupational Therapy or Physical Therapy.

**580-442B ENABLING ENVIRONMENTS.** (2) (3.5 hours/week for 8 weeks) (Open to students in OT and Architecture. Prerequisite: 580-339B or Architecture 301-303A.) Students work in multidisciplinary teams under the supervision of faculty and visitors on selected problems encountered in the design and construction of environments for the physically disabled.

**582-402A/B ADVANCED RHEUMATOLOGY.** (2) (3.5 hours per week for 8 weeks) (Prerequisite: Basic knowledge of the rheumatic diseases and clinical experience in the treatment of physical disabilities.) A seminar course emphasizing a multidisciplinary approach to the evaluation and total care of patients with rheumatic diseases. This course may be offered in the A or B term.

**582-403A/B PEDIATRICS.** (2) (3.5 hours/week.) A lecture and seminar course examining the development, assessment and management of children within a variety of handicapping conditions. This course may be offered in A or B term.

**582-410A/B CHILD AND ADOLESCENT PSYCHIATRY.** (2) (3.5 hours/week.) A specialized course in psychiatric occupational therapy to include an orientation to children and adolescents with psychiatric disorders as well as the evaluation and remediation techniques used in the occupational therapy treatment of these children.

**582-441A/B RESEARCH ELECTIVE.** (2) (This elective can be taken by special arrangement between a member of faculty and a student, and subject to the approval of the Associate Director.) The student is introduced to the methods and procedures of the specific area of research of the faculty supervisor. The student and faculty supervisor determine the objectives, requirements, time span (usually one term), scheduling, deadlines and mode of evaluation of the project

**582-446A/B CURRENT TOPICS IN REHABILITATION.** (2) (3 hours/week for 8 weeks) A professional elective course given in a lecture/seminar/practical format as appropriate to a specialized rehabilitation topic. The student selects one theme from a list of current topic themes to be offered in that semester. The topic themes may change from year to year based on current and developing issues in rehabilitation.

**582-447B SPECIALIZED AREAS OF PRACTICE.** (2) (3 hours/week for 8 weeks) A professional elective course given in a lecture/seminar/practical format as appropriate to a specialized area of practice. The student selects one specialized area of practice from a list of areas of practice specializations that are being offered in that semester. The specialities may change from year to year based on current and developing issues in rehabilitation.

## 6 Graduate Programs

NOTE: The letters which form part of course numbers have the following significance:

- A – fall term
- B – winter term
- D – fall and winter term
- C – summer session courses starting in May

The course credit weight appears in parentheses (#) after the name.

### 6.1 General Course

● **582-505B DESIGNING CLINICAL INSTRUCTION.** (3) (2 hours lectures/workshop per week.) A course open to all health professionals and graduate students with interests in clinical teaching research. A bachelor's degree is a prerequisite. Examination of the following components of clinical teaching: defining the learning task; sequencing instruction; instructional strategies, including communication and interpersonal skills; evaluation of student performance; and obtaining feedback on teaching.

### 6.2 Master of Science, Applied in Rehabilitation Science

#### ADMISSION REQUIREMENTS

1. A B.Sc. degree or equivalent in physical or occupational therapy or related health profession from a university of recognized reputation.
2. Evidence of a high academic achievement equivalent to a B standing, or a McGill CGPA of 3.0 (70-74%).

3. Prerequisite courses may be required in statistics, anatomy, physiology, psychology, sociology, neurophysiology or other areas, depending on the student's anticipated specialization.
4. Non-Canadian applicants to the Faculty of Graduate Studies and Research whose mother tongue is not English and who have not completed an undergraduate degree using the English language are required to submit documented proof of competency in oral and written English, by appropriate exams, e.g. TOEFL (Test of English as a Foreign Language) with a minimum score of 600 (School requirement), and TWE, or the equivalent in other tests.
5. The GRE Test is mandatory for the following applicants:
  - those who do not have a B.Sc. or equivalent from a Canadian University;
  - those who have been out of university for 5 years or more;
  - those whose GPA is below 3.0.

Only the General Test is mandatory. For consideration, students must obtain a minimum score of 550 in each category. For enquiries about Graduate Records Examination, please contact GRE – Educational Testing Service, Princeton, NJ 08540.

6. Two years of clinical experience is required.

Applicants are responsible for ensuring that their scores are sent to the School of Physical and Occupational Therapy. See ["Application Procedures" on page 88](#).

#### PROGRAM REQUIREMENTS

For Master's programs structured as Course, Project or Non-thesis options, residence requirements are fulfilled when students complete all course requirements in their respective programs and pay the fees accordingly. This would normally be completed in four terms.

The curriculum requires a minimum of 45 credits and is divided as follows:

- required courses (equivalent to 16 credits)
- approved elective courses (equivalent to 15 credits) at the 500 and 600 level, related to the student's area of specialization; one or two 300 and 400 level courses may also be included upon approval of the Associate Director;
- project (14 credits, divided into 2 courses: 582-661 (6 credits) and 582-662 (8 credits)).

#### REQUIRED COURSES

**582-602A/B EDUCATIONAL METHODOLOGY.** (3) Process of learning, methods of communication and teaching strategies. For classrooms and clinical settings.

**582-603A/B DIRECTED PRACTICUM.** (3) A tutorial with directed practical experience in a clinical setting related to the students' clinical specialization, including curriculum development and emphasizing current thought in rehabilitation.

**582-610A/B RESEARCH METHODOLOGY.** (3) (Prerequisite: 204-305B, or 513-607A, or 416-675A and 416-676B or equivalent.) An advanced lecture and seminar course. The philosophy of scientific inquiry, principles of research design, and application of statistical techniques are discussed with special consideration given to research studies in health care and rehabilitation.

**582-614A/B SELECTED TOPICS IN REHABILITATION SCIENCE.** (3) A weekly lecture and seminar course taught by staff, designed to provide an overview of current research issues in rehabilitation.

**582-616D SEMINARS IN REHABILITATION SCIENCE.** (1) A weekly seminar course given by staff and invited speakers in different areas of rehabilitation science. Students are expected to participate by reading pertinent literature prior to seminars and asking questions at each seminar. Attendance is compulsory, and the course is graded pass/fail based on participation.

#### RESEARCH PROJECT

The student carries out a research project under the supervision of a supervisory committee, including both academic and clinical supervisors. The project does not require an original protocol or

original data collection and may be a small project that is part of ongoing research of one of the supervisors. It may also take the form of a meta analysis, specific literature review and criticism, or form part of the clinician's current practice.

### 6.3 Master of Science in Rehabilitation Science

#### ADMISSION REQUIREMENTS

1. A B.Sc. degree or equivalent in physical or occupational therapy or related fields from a university of recognized reputation.
2. Evidence of a high academic achievement equivalent to a B standing, or a McGill CGPA of 3.0 (70-74%).
3. Prerequisite courses may be required in statistics, anatomy, physiology, psychology, sociology, neurophysiology or other areas, depending on the student's anticipated specialization.
4. Non-Canadian applicants to the Faculty of Graduate Studies and Research whose mother tongue is not English and who have not completed an undergraduate degree using the English language are required to submit documented proof of competency in oral and written English, by appropriate exams, e.g. TOEFL (Test of English as a Foreign Language) with a minimum score of 600 (School requirement), and TWE, or the equivalent in other tests.
5. The GRE Test is mandatory for the following applicants:
  - those who do not have a B.Sc. or equivalent from a Canadian University;
  - those who have been out of university for 5 years or more;
  - those whose GPA is below 3.0.

Only the General Test is mandatory. For consideration, students must obtain a minimum score of 550 in each category. For enquiries about Graduate Records Examination, please contact GRE – Educational Testing Service, Princeton, NJ 08540.

Applicants are responsible for ensuring that their scores are sent to the School of Physical and Occupational Therapy. See ["Application Procedures" on page 88](#) for address.

#### PROGRAM REQUIREMENTS

The program requires a minimum of three terms of full-time residence study. It is not uncommon for a student to take two or more years to complete the degree. The curriculum requires a minimum of 45 credits and is divided as follows:

- required courses (equivalent to 10 credits) including the research proposal presentation;
- elective courses which pertain to the student's area of specialization (equivalent to 6 credits);
- master's thesis (29 credits: distributed throughout the three terms of study).

#### REQUIRED COURSES

**582-610B RESEARCH METHODOLOGY.** (3) (Prerequisite: Statistics for Experimental Design, 204-305B; or Principles of Inferential Statistics, 513-607A; or Intermediate Statistics, 416-675A and 416-676B or equivalent, and permission of instructor. An advanced lecture and seminar course. The philosophy of scientific inquiry, principles of research design, and application of statistical techniques are discussed with special consideration to research studies in health care and rehabilitation.

**582-614A SELECTED TOPICS IN REHABILITATION SCIENCE.** (3) A weekly lecture and seminar course taught by staff, designed to provide an overview of current research issues in rehabilitation.

**582-616D SEMINARS IN REHABILITATION SCIENCE.** (1) A weekly seminar course given by staff and invited speakers in different areas of rehabilitation science. Students are expected to participate by reading pertinent literature prior to seminars and asking questions at each seminar. Attendance is compulsory, and the course is graded pass/fail based on participation.

**582-631 RESEARCH PROPOSAL.** (3) The course covers issues involved in the development of a research protocol. The presenta-

tion of a written thesis proposal is required by the end of the course. This document will serve as the basis for an oral presentation to the student's Supervisory Committee which will also review the written proposal.

In addition, course numbers totalling 29 credits are assigned for the master's thesis. All four of these courses are entitled "Thesis Research" and must be registered for within the first 3 terms of full-time study. The course 582-699 is carried as **IP** "in progress" until completion of thesis.

**582-696A/B/C THESIS RESEARCH.** (2)

**582-697A/B/C THESIS RESEARCH.** (6)

**582-698A/B/C THESIS RESEARCH.** (9)

**582-699A/B/C THESIS RESEARCH.** (12)

### RESEARCH PROPOSAL

A research proposal is to be submitted in written form and defended in front of a supervisory committee. Research proposals should be completed by the beginning of the second full-time year.

### THESIS

The student carries out a research study in an approved subject area under the guidance of an internal supervisor (from within the School) or an external supervisor (from outside the School).

## 6.4 Doctorate in Rehabilitation Science

### ADMISSION REQUIREMENTS

1. An M.Sc. degree in a rehabilitation-related discipline from a university of recognized reputation.
2. Evidence of a high academic achievement equivalent to a B+ standing, or a McGill CGPA of 3.3 (75-79%) is required.
3. If a graduate student accepted into the M.Sc. program demonstrates superior performance in the first year, the Graduate Committee, in consultation with the thesis supervisor, may recommend waiving the M.Sc. thesis requirement, and allow the student to proceed directly to the Ph.D. program.
4. Proof of proficiency in English.
5. GRE Test with a minimum score of 600 in each category. The GRE Test is mandatory for the following applicants: those who do not have a B.Sc. or equivalent from a Canadian university; those who have been out of university for five years or more; those whose GPA is below 3.0.

### PROGRAM REQUIREMENTS

Doctoral students will be required to pursue at least three years of full-time residence study in the graduate program of the School of Physical and Occupational Therapy.

The curriculum will be divided as follows:

- four required core courses (15 credits);
- a minimum of 6 credits of elective course(s) which pertain to the student's area of specialization. These are chosen by the student in consultation with his/her supervisor and upon approval of the Associate Director of the Graduate Program;
- written comprehensive examination;
- research proposal;
- doctoral thesis (dissertation and defence).

### REQUIRED COURSES

Of the five required courses, at least two\* will already have been completed by students with an M.Sc. in Rehabilitation Science from McGill.

**582-610B RESEARCH METHODOLOGY\***. (see above)

**582-614A SELECTED TOPICS IN REHABILITATION SCIENCE\***. (see above)

**582-620A MEASUREMENT IN REHABILITATION I.** (see below)

**582-630B MEASUREMENT IN REHABILITATION II.** (see below)

**582-701D PH.D. COMPREHENSIVE EXAMINATION.** (see below)

### COMPREHENSIVE EXAMINATION

The student must successfully pass a written comprehensive examination by the end of the second academic year. The format will be three questions to be answered in essay style over a five-day period. An additional requirement may include an oral component.

### RESEARCH PROPOSAL

A research proposal is to be submitted in written form and defended in front of a supervisory committee. Research proposals should be completed during the second full-time year.

### THESIS

The student carries out a research study in an approved subject area under the guidance of an internal supervisor (from within the School) or an external supervisor (from outside the School).

## 6.5 Elective Courses (for the M.Sc.A, M.Sc., and Ph.D. programs)

This list reflects elective courses offered by the School of Physical and Occupational Therapy. A more complete list including courses given in other departments can be obtained from the Graduate Program Coordinator.

**582-604A CURRENT TOPICS IN PEDIATRICS.** (3) (Prerequisite: 582-233A or permission from the instructors.) This course will provide an overview of current research in pediatrics.

**582-608A/B PLASTICITY AS A BASIS FOR REHABILITATION.** (3) (Prerequisite: 582-455B or equivalent) A seminar course designed to provide students with a review of current research on plasticity in the central and peripheral nervous systems. Particular emphasis is placed on the mechanisms involved in the recovery of function after injury.

**582-620A MEASUREMENT IN REHABILITATION I.** (3) (Prerequisite: 582-220B and permission from the instructor.) Theoretical and practical basis for utilization of electronic equipment for quantitative measurement in rehabilitation research. Ambulatory assistive devices, electronic plates and instrumentation to assess normal and pathological human movement will be used to demonstrate the application of theory and techniques for quantitative analysis of human performance. Recording, reduction and analysis of electromyographic, kinetic and kinematic data will be included.

**582-622A/B PATHOKINESIOLOGY.** (3) (Prerequisite: 582-620A and 582-630B.) Principles and techniques of quantitative biomechanics to the assessment of abnormal human motor performance. Topics will include the anthropometrics, kinematics, and kinetics of altered movement patterns that result from pathology of the nervous and musculoskeletal systems. Practical, experimental and clinical applications will be stressed.

**582-630B MEASUREMENT IN REHABILITATION II.** (3) (Prerequisite: statistics course 513-607 or 204-305 or equivalent.) Theoretical and practical basis for measurement in rehabilitation research. Students will be introduced to measurement theory, scale development and related statistics in addition to the approaches and instruments used to assess outcomes in patients with musculoskeletal, neurological, cardiovascular, respiratory, psychiatric or psychologic conditions.

## 6.6 Application Procedures

Application forms for admission to the Faculty of Graduate Studies and Research, for the degree of M.Sc., M.Sc.A or Ph.D. in Rehabilitation Science, may be requested directly from the School. Once completed, the application form and required documents should be returned to the address indicated below.

Associate Director, Graduate Program  
School of Physical and Occupational Therapy  
McGill University  
3654 Drummond Street  
Montreal, QC, Canada H3G 1Y5