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SECTION 1: Academic Staff

Department of Occupational Therapy

Professor Emerita:

Professor:

Associate Professors:
Booth, A.D., B.Sc.(O.T.) (Pennsylvania), M.B.A. (Manitoba); Collins, D., Dip.O.T., B.Sc.(O.T.) (Queen’s), M.Sc.(Community Health Sciences) (Manitoba); Werner, E., B.M.R.(O.T.), M.Ed. (Manitoba).

Assistant Professors:

Adjunct Professor:

Academic Fieldwork Co-ordinator and Instructor 2:
Campbell-Rempel, M., B.Sc. (Brandon), B.M.R.(O.T.) (Manitoba).

Instructor 2:

Instructors:

Department of Physical Therapy

Associate Professors:
Kriellaars, D., B.P.E. (Manitoba), M.Sc. (Dalhousie), Ph.D. (Manitoba); MacNeil, B., B.Sc.(P.T.) (Dalhousie), Ph.D. (Waterloo); Shay, B., B.M.R.(P.T.), M.Sc., Ph.D. (Manitoba); Swinamer, J., B.P.T. (Manitoba), M.S.A.(Health) (Central Michigan); Szterm, T.J., B.Sc.(Biology), B.Sc.(P.T.) (Western Ontario), Ph.D.(Neurophysiology) (Manitoba).

Assistant Professors:
Barclay-Goddard, R., B.M.R.(P.T.) (Manitoba), M.H.Sc. (McMaster), Ph.D. (Manitoba); Harvey, E., B.M.R.(P.T.) (Manitoba), M.H.Sc.(Phty) (Sydney); Lee, C.E., B.Sc.(P.T.) (Alberta), Ph.D. (Texas Woman's).

Senior Instructor:
Pereira, G., Dip.(P.T.) (Saskatchewan), B.P.T. (Manitoba).

Instructor 2:
McMurray, M., B.P.E., B.M.R.(P.T.) (Manitoba).

Instructors:

Academic Co-ordinator of Clinical Education, and Instructor 2:
Garrett, M., B.Phty (Queensland), M.H.A. (New South Wales).

Term Instructors:
Abbott, B., B.M.R.(P.T.) (Manitoba), M.D. (Saskatchewan); Carswell, J., B.M.R.(P.T.), B.P.E. (Manitoba); Fruenheim, C., B.M.R.(P.T.), M.B.A. (Manitoba); Gupta, S., B.Sc., B.M.R.(P.T.) (Manitoba); Kozerza, T., B.M.R.(P.T.) (Manitoba), M.Sc. (Manitoba); Lighthly, E., B.M.R.(P.T.) (Manitoba); McIlrath, J., B.P.T. (Saskatchewan); Nett, C., B.M.R.(P.T.) (Manitoba); Newton, L., R.N. (Winipeg General Hospital), B.A. (Winnipeg), B.S.N. (Victoria), M.N. (Manitoba); Niebur, R., B.M.R.(P.T.) (Manitoba), B.A. (Winnipeg); Pisclevich, L., B.M.R.(P.T.) (Manitoba); Silk, C., B.M.R.(P.T.) (Manitoba); Webber, S.,
The School of Medical Rehabilitation offers three entry-level professional programs: one in Occupational Therapy, one in Physical Therapy, and one in Respiratory Therapy. The Bachelor of Medical Rehabilitation program is a health discipline that endeavours to promote, develop, restore and optimize health and functional ability. Therapists use a holistic approach and work collaboratively with their clients to facilitate their achievement of independence in all aspects of their daily living. Physical Therapy is a discipline directed towards the prevention or alleviation of movement dysfunction. The goal of physical therapy is to assist patients in achieving, or restoring to them, the highest level of movement possible and maximum independence. Respiratory Therapy is a health discipline devoted to the scientific application of technology to assist in the diagnosis, treatment, and promotion of well being of patients with respiratory and associated disorders. Respiratory Therapists work as part of a multidisciplinary health care team in a variety of hospital and alternate care settings as well as the private sector and the community.

The School of Medical Rehabilitation was established in September 1960 as a response by the University of Manitoba to the increasing need for occupational and physical therapists. It was founded as an academic unit within the Faculty of Medicine and was located originally in the Children’s Hospital. In 1962 the school moved to the third floor of the newly completed Manitoba Rehabilitation Hospital. Since the incorporation of the Health Sciences Centre in 1972, the school has retained this location but now exists primarily as an integrated part of the Bannatyne Campus. The general office is located at 771 McDermot Avenue on the Bannatyne Campus. The Department of Respiratory Therapy is housed in the Isabel M. Stewart Building, 700 McDermot Avenue. In 1996, the school was given 25,000 square feet of new space in the former Medical Library Building and a major redevelopment plan was completed in 2002.

In 1964 the University Senate approved extensions of the original diploma curricula from two and one-half to three years. Optional fourth-year programs leading to the degrees of Bachelor of Occupational Therapy and Bachelor of Physical Therapy were approved by Senate in 1966.

In February 1976, new undergraduate programs leading to the degrees of Bachelor of Medical Rehabilitation (Occupational Therapy) and Bachelor of Medical Rehabilitation (Physical Therapy) were approved by Senate in recognition of expanding roles of occupational and physical therapy in health care. The diploma programs were discontinued.

Effective September 1989, a revised B.M.R.(O.T.) and a revised B.M.R.(P.T.) program were introduced.

Plans are underway for the development of a graduate entry-level program in Physical Therapy. If approved, this program would replace the current undergraduate program. Students are advised to consult the School of Medical Rehabilitation web site for current information about the Physical Therapy program.

Effective in 2003, the Occupational Therapy entry-level program became a graduate program leading to a Master of Occupational Therapy degree. There is a Regular program and an Accelerated option. The Regular program is for individuals who do not have a previous degree in occupational therapy. The Accelerated option is for occupational therapists who have a B.M.R(O.T.) degree or equivalent. Students are advised to consult the University of Manitoba Graduate Calendar and the Master of Occupational Therapy program Supplemental Regulations for further information.

The Bachelor of Respiratory Therapy program was approved by Senate in 2002, modified from the previous diploma program, established at the Health Sciences Centre in 1964. The original diploma program was established as a two-year program, was modified to a three-year program in 1984, and subsequently evolved to require a pre-professional year of study in 1993. The current B.M.R.(R.T.) program has introduced a number of curricular changes to the most recent diploma program, offering a revised four-year program of study leading to a bachelor degree.

In 1989, a thesis-based Masters of Physical Therapy program was approved and in 1992 the program became an M.Sc.(Rehabilitation), in which all other disciplines related to rehabilitation could further their research endeavours.

Accreditation

The Physical Therapy program was awarded ongoing accreditation status until 2008 from the Accreditation Council for Canadian Physiotherapy Academic Programs (ACCPAP).

The Respiratory Therapy program maintains accreditation through the Council on Accreditation of Respiratory Therapy Education (CoARTE). Accreditation was most recently awarded in 2007 for a 5-year term.

SECTION 3: Admission to the School of Medical Rehabilitation

3.1 Degrees offered
Master of Occupational Therapy (M.O.T.)
Regular Program minimum time to graduation: Five years (prior bachelor’s degree plus two years)
Accelerated Option minimum time to graduation: Five years (B.M.R.(O.T.) degree and prerequisite year plus one year)

Bachelor of Medical Rehabilitation (Physical Therapy) (B.M.R.(P.T.))

Bachelor of Medical Rehabilitation (Respiratory Therapy) (B.M.R.(R.T.))
Minimum time to graduation: Four years (University 1 plus three years).

The following is a summary of the admission requirements. Equivalent academic courses completed at the University of Manitoba or recognized universities elsewhere will be considered. All admission requirements, as well as application deadline dates and forms, are included in applicant information bulletins that are available from the School of Medical Rehabilitation general office, R106-771 McDermot Avenue, Bannatyne Campus. P.T. and R.T. info can also be obtained from the Admissions Office, Enrollment Services, 424 University Centre. This information is also posted on the university’s website.

3.2 Course requirements: Occupational Therapy

Regular Program
Completion of a previous undergraduate degree, minimum B average in last 60 credit hours of study, completion of all program prerequisite courses or approved alternates with no grade in prerequisites below a C. Prerequisite courses include all of the courses listed below or equivalents approved by the M.O.T. Admissions Committee:

- SOC 1200 Introduction to Sociology
- PSYC 1200 Introduction to Psychology
- PSYC 2290 Child Development
3.3 Course requirements: Physical Therapy

Prospective students are advised that a major curriculum change for Physical Therapy is proposed to begin in 2010. There will be no intake of students into the B.M.R.(P.T.) program in 2009 to allow for the phase-in of the proposed new program. Interested students are encouraged to check for updates posted on our website as they become available at umanitoba.ca/medrehab.

Both BIOL 1020 and BIOL 1030 Biology 1 & 2, or both BIOL 1000 and BIOL 1010 Biology, or both ZOOL 1320 and ZOOL 1330 Anatomy and Physiology (or ZOOL 2530 and ZOOL 2540 Physiology 1 & 2 in lieu of ZOOL 1330)

SOC 1200 Introduction to Sociology
PSY 1200 Introduction to Psychology
3 credit hour course to satisfy the written English requirement
6-9 credit hours of electives to total 30 credit hours in University 1

Other requirements: Physical Therapy

Minimum GPA required for consideration: 3.0. Minimum 3.0 in core courses.

The written English requirement must be satisfied in University 1; the mathematics requirement is satisfied after admission to Physical Therapy by the required course, REHB 2460.

Selection criteria: 50% interview and 50% grades. Volunteer experiences are strongly recommended prior to application.

High school prerequisites for Physical Therapy degree only
High school prerequisites: Biology 40S, Chemistry 40S, English 40S, Physics 30S or 40S are strongly recommended.

3.4 Course requirements: Respiratory Therapy

BIOL 1020 and BIOL 1030 Biology 1 & 2, or both BIOL 1000 and BIOL 1010 Biology
SOC 1200 Introduction to Sociology
PSY 1200 Introduction to Psychology
3 credit hour course to satisfy the written English requirement
9 credit hours of electives to total 30 credit hours in University 1

Other requirements: Respiratory Therapy

Minimum GPA for consideration is 2.5

The mathematics requirement is satisfied after admission to Respiratory Therapy by required course REHB 2460. This is subject to change in 2010 and will be required as a prerequisite course. Alternate courses will also be allowed. Please check with the department for a list of acceptable courses.

The following High School Courses are highly recommended: Biology 40S, English 40S, Mathematics 40S, Chemistry 40S and Physics 40S.

Selection Criteria: 67% Grades and 33% Interview.

Applicants having less than 30 credit hours in a regular winter session will be considered if they have an AGPA of 3.0 or better.

SECTION 4: Academic Regulations

4.1 General

The provisions of the chapter, General Academic Regulations and Requirements, and the chapter, University Policies, apply to all students. In addition, the School of Medical Rehabilitation has regulations and requirements, published below, that apply specifically to its students.

Policies with regard to admissions, selection, academic progression of the student, compulsory attendance, examination procedures, supplemental examination procedures, and withdrawal dates are in force and are on file in the general office of the School of Medical Rehabilitation.

4.2 Health Requirements

Students in all departments are required to provide a health history and immunization record. A student will not be permitted to attend fieldwork/clinical placements until all health, immunization and CPR requirements are current.

Immunizations

Standard Health Record Form Packages are sent to new students in Occupational Therapy, Physical Therapy and Respiratory Therapy upon acceptance into the programs. New students in Occupational Therapy and Physical Therapy are required to return forms to their respective departments by the dates published yearly in the Health Record Form Packages. New students in Respiratory Therapy are required to return forms by August 31. Returning students in all three programs are required annually to review and update immunizations as necessary.

Cardiopulmonary Resuscitation Certification (Occupational Therapy only)

All students of the Department of Occupational Therapy are required to obtain certification in cardiopulmonary resuscitation. Certification must be at the Basic Rescuer Level. New students in the program must provide proof of certification within the first 2 weeks of classes of the academic year in which they commence classes. This certification must not have an issue date prior to July 1 of the year the student commences classes in the program. Second year students must provide proof of re-certification by October 1 of their second year in the program. This certification must not have an issue date prior to the last week of August of the current year. Certification must remain current for all fieldwork experiences.

Cardiopulmonary Resuscitation Certification (Physical Therapy only)

All students (both new and returning) in the Department of Physical Therapy are required to obtain certification in cardiopulmonary resuscitation annually. Certification must be at the Basic Rescuer Level. Proof of certification must be provided by October 1 and must not have an issue date prior to the last week of August of the current year. This will ensure that the certification remains current until the end of the clinical placement period for each year of the program.

Cardiopulmonary Resuscitation Certification (Respiratory Therapy only)

All students of the Department of Respiratory Therapy are required to obtain certification in cardiopulmonary resuscitation. Certification must be at the Basic Rescuer Level. First and second year students must provide proof of certification before their first fieldwork experience, usually mid-September. Third year students will be certified/re-certified by the program at the beginning of their clinical internship year in preparation for advanced level certification(s) in cardiopulmonary resuscitation.

4.3 Dean’s Honour List

Undergraduate Students (Physical Therapy and Respiratory Therapy)

Students carrying a full course load, with a sessional Grade Point Average of 3.7 or higher and have not done resit or supplemental exams, are placed on the Dean’s Honour List.

4.4 Attendance

Regular attendance is expected of all students in all courses. Prior permission is required for any anticipated absences. Students absent from class due to illness may be required to present a certificate from a physician. Unexcused absence from an examination may result in a grade of zero for that examination. Make-up examinations may be allowed under special circumstances.
4.5 Criminal Record Check and Child Abuse Registry Check

Students are advised that clinical/fieldwork education sites require that students complete a Criminal Record Check and a Child Abuse Registry Check.

New students in the Master of Occupational Therapy program must provide results of a Child Abuse Registry Check and a Criminal Record Check within the first 2 weeks of classes of the academic year in which they commence classes. Both checks must have an issue date after July 1 of the year the student commences classes in the program. Second year students must provide updated results by October 1 of their second year in the program. Both checks must have an issue date during or after the last week of August of the current year.

All physical therapy students are required to obtain a formal Criminal Record Check and a formal Child Abuse Registry Check by October 1 of each year of the program. Both documents must not have an issue date prior or to the last week of August of the current year, to ensure that they remain current until the end of the clinical placement period for each year of the program. Additionally, new students are required to complete a criminal record self-declaration form at the time of application to the program.

All respiratory therapy students are required to produce a Criminal Record Check and a Child Abuse Registry Check by August 15 of the year in which they commence classes. Both the Criminal Record Check and the Child Abuse Registry Check must be completed within a six-month time period prior to commencing the program.

SECTION 5: Program Requirements

5.1 Educational Objectives of Programs

The M.O.T., B.M.R.(P.T.) and B.M.R.(R.T.) programs have been designed so that students successfully completing the required academic, professional, and clinical/fieldwork education programs should be able to:

- Understand the interrelationships between medical, psychosocial, economic, and cultural factors affecting the patient/client;
- Identify the role of the therapist in health care;
- Demonstrate application of ethical and professional responsibilities;
- Demonstrate knowledge, understanding, and use of therapeutic intervention;
- Plan, apply and interpret assessment and/or diagnostic procedures;
- Participate in the decisions of a health care team with respect to the design of a total rehabilitation program or other treatment regime including the initiation, progression and discontinuation of therapy;
- Implement the occupational, physical or respiratory therapy components of a total rehabilitation program or other treatment regime;
- Review and modify therapy according to patient/client response and according to the progression of a total rehabilitation program or other treatment regime;
- Assign appropriate areas of a rehabilitation program or selected work assignments to supervised support personnel;
- Participate in clinical and/or basic science research; and
- Participate in and encourage the improvement of health care in the community.

5.2 Clinical/Fieldwork Education

**Occupational Therapy**

See University of Manitoba Graduate Calendar for descriptions of courses in the Master of Occupational Therapy (M.O.T.) program.

**Physical Therapy**

1,200 full-time hours of clinical/practical experience are required. Clinical placements are conducted from March to August of the first, second and third years of the program. Placements occur primarily in locations in Manitoba, Saskatchewan, northwestern Ontario and Kivalliq Region of Nunavut. Students are advised to take into account the financial implications of the summer placement requirements of the B.M.R.(P.T.) program. All students should be prepared to be placed outside of Winnipeg for a minimum of one placement.

**Respiratory Therapy**

1,600 full-time hours of clinical/fieldwork experience are required. Clinical placements are integrated throughout the three academic years with the majority of the clinical placements occurring in Year 3, the internship year. Placements during the regular academic year all take place within greater Winnipeg. Placements occur within a variety of hospital, public and private settings. (Refer to start and end dates for all years of the program.)

**Clinical/Fieldwork Education Sites (Physical Therapy and Respiratory Therapy)**

The university recognizes the following sites which provide clinical therapists, some who may lecture in the academic component of the program and also provide supervision of students in clinical/fieldwork placements:

- **Winnipeg**: Access Physiotherapy; Action PT & Wellness Clinic; Andrea Vinci Physiotherapy; Community Therapy Services of Manitoba; Concordia Hospital; Corydon Physiotherapy Clinic; D’Arcy Bain Physiotherapy & Sports Injury Clinic; Deer Lodge Centre; Donna Sarna PT & Rehabilitation Services; Doug Christie PT & Associates; Elite Performance Sports Injury Centre; Fairview Health & Wellness Clinic; Fitness Physiotherapy Services of Manitoba Ltd.; Fort Richmond PT & Sports Injury Centre; Glen Young PT & Spine Injury Clinic; Grace Hospital; Graham PT; Health Sciences Centre; Heather Howdle P.T. & Consulting; Hunter Physiotherapy; Interhospital Transport Team, WRHA; Manitoba Lung Association; Markham Physiotherapy Clinic; Misericordia Health Centre; Ness Physiotherapy and Sports Injury Centre; Nova Physiotherapy and Sports Fitness Clinic; Pembina PT & Sports Injury Clinic; Pembina Trails School Division CSF; Plessis Physiotherapy - Sports Injury Clinic; RANA Medical Inc.; Rehabilitation Centre for Children; River East Physiotherapy Sports Fitness Clinic; Riverbend PT & Sports Injury Centre; Riverview Health Centre; Rose & Max Rady Community Centre; St. Amant Centre; St. Boniface General Hospital; St. James Rehab PT Centre Ltd.; St. Vital PT & Sports Injury Centre; School Therapy Services; Seven Oaks PT & Sports Injury Clinic; Seven Oaks General Hospital; Society for Manitobans with Disabilities; Sport and Spine Physiotherapy Centre; Transcona Physiotherapy and Sports Injury Clinic; Victoria General Hospital; Vista Place PT & Sports Injury Centre; Wellness Institute; Whyte Ridge P.T. & Sports Injury Clinic; Windsor Park PT; YM-YWCA of Winnipeg.

- **Outside of Winnipeg**: Allied Health Group; Bethesda Health Services, Steinbach; Birds Hill PT; Boundary Trails Health Centre, Winkler; Brandon Regional Health Authority; Central Regional Health Authority; Flin Flon General Hospital; Gimli Physiotherapy Clinic; Manitoba Developmental Centre, Portage la Prairie; Oakbank PT; PT on the Red Sport Injury & Rehab Centre; Selkirk; Parkland Regional Therapy Program; PhysioFirst; Portage District General Hospital; Portage P.T. & Sports Injury Clinic; Quarry P.T. Sports Injury & Rehab Clinic, Ashern; Rankin Inlet Health Centre, Nunnavut; Ste. Anne PT Sports Injury Clinic; Selkirk & District General Hospital; Steinbach PT & Sports Injury Centre; St. Boniface Regional Health Centre; The Pas Health Complex; Thompson General Hospital; WestFit P.T. & Sports Injury Clinic; Westman Evaluation & Rehab Centre Inc., Brandon; Yellowhead P.T. & Athletic Centre.

SECTION 6: Registration

**Occupational Therapy**

See University of Manitoba Graduate Calendar for registration procedures for the Master of Occupational Therapy (M.O.T.) program.

**Physical Therapy and Respiratory Therapy**

Undergraduate Physical Therapy (P.T.) (Years 2 to 3) and Respiratory Therapy (R.T.) (Years 1 to 3) students are required to register themselves through Aurora Student. Because Aurora Student is available 7 days per week, 24 hours per day (subject to minor scheduled and unscheduled outages in off-peak hours) students will have greater access/flexibility regarding the registration process.

To begin registration, go to the University of Manitoba home page (umanitoba.ca) and click on ‘Aurora Student’ under the Student Links section. Click on ‘Enter Secure Area’. Log in using your student number and PIN (Personal Identification Number) from MyUMInfo. If you have forgotten your PIN number, please contact the Registrar’s Office at (204) 474-9420 for assistance. If you do not yet have a PIN number, enter your birth date as instructed (YMMMD). Follow all prompts to set your security access.
Before continuing, you will be asked to agree to ‘Terms of Use’. Once you agree, you will be taken to the ‘Main Menu’. Under the ‘Personal Information’ tab, you can change your PIN, update your address, etc.

Click on ‘Enrolment and Academic Records’. Select ‘Registration’, then ‘Add/Drop Classes’. You will be asked to choose a ‘Term’. Register in both the Fall and Winter Terms, i.e. listed as ‘Fall 2009’ and ‘Winter 2010’. Ensure that you have chosen the correct term where the course is being offered; if the incorrect term is entered, the Course Reference Number (CRN) for the course that you want to register for will not appear. An e-mail will be sent by D. Weigel to advise students when the Aurora Student system is available to accept Summer Session registrations, i.e. listed as ‘Summer Session 2010’. Register for the courses that pertain to the respective year that you are entering into (note that you will only be required to enter the CRN that pertains to each of the courses listed in that specific year of the program; each year, new CRNs are assigned to courses). CRNs will be available via the Department. As soon as the CRNs become available, students will have that info e-mailed to them using their address listed in Aurora. Students are required to “Submit Changes” after completing any Add/Drop transactions. If encountering registration errors when trying to register for several courses during one transaction, please register for one course at a time (saving after each entry). In most cases, this will rectify the problem. To log out of the system, it is important that you click on the ‘Exit’ button.

After you have registered in all of the courses pertaining to the year in which you will be entering, use Aurora Student to obtain a fee assessment. Pay all fees by the fee payment deadlines published.

**Registration Exceptions**

Students who have (a) failing grade(s) registered against them and/or have other outstanding academic matters (i.e. deferred or supplemental examinations, modified program, etc.) in regards to the previous academic session will not be allowed to register using Aurora Student until instructed to do so. Students falling into this category should contact Doris Weigel at (204) 789-3248 or dweigel@cc.umanitoba.ca for further information.

### PHYSICAL THERAPY

#### First Year Physical Therapy Student Information

**Not offered in 2009-2010**

The courses in the first year of the program are as follows:

**Fall 2009**

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<tr>
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<th>Dept. Code</th>
<th>Course No.</th>
<th>Credit Hrs.</th>
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<td>REHB</td>
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**Winter**

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*Summer (To Be Announced)*

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<td>Physical Therapy</td>
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<td>1740</td>
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</tbody>
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* Students will be advised when the Aurora Student System is available to accept Summer Session registrations.

Total credit hours for First Year: 45

### Second Year Physical Therapy Student Information

The courses in the second year of the program are as follows:

**Fall 2009**

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### RESPIRATORY THERAPY

#### First Year Respiratory Therapy Student Information

The courses in the first year of the program are as follows:

**Fall 2009**

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<th>Course No.</th>
<th>Credit Hrs.</th>
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<td>Medical Rehabilitation</td>
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<td>* Medical Rehabilitation</td>
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<td>Respiratory Therapy</td>
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* Program under review. Refer to Dept. for updated info.

**Winter 2010**

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<tr>
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Total credit hours for First Year: 34

### Third Year Physical Therapy Student Information

The courses in the third year of the program are as follows:

**Fall 2009**

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**Winter 2010**

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*Summer Session 2010* *(To Be Announced)*

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### Second Year Respiratory Therapy Student Information

The courses in the second year of the program are as follows:

**Fall 2009**

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<tr>
<th>Dept. Name</th>
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**Winter 2010**

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** See section on Transfer of Credit/Advanced Standing prior to registering for this course.
Total credit hours for Second Year: (full course load) 36; (without REHB 2460) 33

**Third Year Respiratory Therapy Student Information**

The courses in the third year of the program are as follows:

**Fall 2009**

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<tr>
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<th>Course No.</th>
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Total credit hours for Third Year: 38
Total program credit hours: 108

**Registration Assistance**

When registering for courses, if problems are encountered that you cannot resolve on your own, contact Doris Weigel at (204) 789-3248 or dweigel@cc.umanitoba.ca. Your queries will be addressed as soon as possible.

**Students on “Hold”**

If your records are on “Hold”, you are prevented from any registration transaction until you have cleared this status.

**Transfer of Credit/Advanced Standing**

(Process subject to change in 2010)

A memo will be circulated (in January of each year) to students registered in Year 1 of the Respiratory Therapy undergraduate program. At that time, students will be asked to submit a request for Transfer of Credit/Advanced Standing regarding a course (where passing grade obtained) that was previously taken and is equivalent to REHB 2460, Statistics (taught in second year of the curriculum). At the same time, students will also indicate whether they will be registering for an equivalent course in Summer Session.

The course will be evaluated as to whether it is transferable or whether advanced standing can be granted in lieu of course REHB 2460. If approval is granted, the student will be notified of the decision (memo to be placed in the student’s School of Medical Rehabilitation mailbox no later than mid-March) prior to second year registration occurring.

**Applying to Graduate**

All undergraduate students must declare their intent to graduate through Aurora Student. Refer to the declaration deadline dates published in the Undergraduate Calendar, 2009-2010 Academic Schedule (University Convocation section) found at the front of the calendar. Log in to Aurora Student, select Enrolment & Academic Records > Declarations > Declare Graduation Date. Select your intended graduation month from the drop down menu and press ‘submit’. After indicating your expected date of graduation, you will receive a verification letter from the Registrar’s Office confirming relevant graduation information such as name, address, degree sought and date of graduation. Amend any errors in the verification and return it to the Registrar’s Office immediately to ensure time for correction.

**Change of Address**

Undergraduate Physical Therapy (Years 2 to 3) and Respiratory Therapy (Years 1 to 3) students are responsible for updating their home/permanent addresses using Aurora Student. So as to keep your School of Medical Rehabilitation personnel file up to date, also provide your address changes to the General Office of School of Medical Rehabilitation and to the Department secretary (if registered in the Department of Respiratory Therapy).

**E-mail Accounts**

All students should have an e-mail account with the University of Manitoba. As a student in the School of Medical Rehabilitation, you are expected to enter your University of Manitoba e-mail address in Aurora. Check e-mails regularly.

**Section 7: Course Descriptions**

PT 1700 Psychosocial Issues Cr.Hrs.6 (Formerly 167.170) A general course to provide an overview of psychosocial behaviour and the implication for physiotherapy practice. 75 hours.

PT 1730 Physical Therapy Management Cr.Hrs.10 (Formerly 167.173) A theory and practical course on applying physical therapy techniques to patients with cardiovascular and respiratory disorders. 166 hours.

PT 1740 Cardiorespiratory Clinical Education Cr.Hrs.7 (Formerly 167.174) Consists of an introductory period of clinical practice and specific practice related to the management of cardiorespiratory conditions. Course evaluated on a pass/fail basis. 245 hours.

PT 1750 Rehabilitation Exercise 1 Cr.Hrs.6 (Formerly 167.175) Consists of lecture, tutorials, and practical exercises related to the management physiology, fitness testing and training and rehabilitation exercise skills related to the healthy adult and selected patient populations. 105 hours.

PT 1910 Pathology and Clinical Manifestations Cr.Hrs.5 (Formerly 167.191) A theory course including the basic principles of pathology and microbiology; the natural history of pulmonary disease, clinical manifestations, methods of assessment and the patient with disorders of the cardiovascular and respiratory systems. Corequisite: REHB 1200 (or 068.120). 83 hours.

PT 2720 Electro-Physical Agents in Physical Therapy Management Cr.Hrs.3 (Formerly 167.272) Selection and application of electro-physical agents in physical therapy. 45 hours.

PT 2750 Rehabilitation Exercise 2 Cr.Hrs.2 (Formerly 167.275) A lecture and lab based course which focuses on the development of comprehensive rehabilitation, health, and fitness exercise programs for normal subjects, clients with specific conditions (orthopaedics, athletics). 34 hours.

PT 2760 Orthopedic Assessment and Management 1 Cr.Hrs.6 (Formerly 167.276) Integrated approach to the orthopedic assessment and management of upper limb, lower limb, and spinal disorders. 113 hours.

PT 2770 Orthopedic Assessment and Management 2 Cr.Hrs.6 (Formerly 167.277) Integrated approach to the physiotherapy assessment and management of upper limb, lower limb, and spinal disorders. Successful completion of PT 2760 (or 167.276) and PT 2770 (or 167.277) equivalent to E2/E2 level of professional classification. 111 hours.

PT 2780 Musculoskeletal Clinical Education Cr.Hrs.10 (Formerly 167.278) Consists of an introductory period of clinical practice and specific practice related to the management of musculoskeletal conditions. Course evaluated on a pass/fail basis. 375 hours.

PT 2790 Physical Therapy Management of Musculoskeletal Disorders Cr.Hrs.8 (Formerly 167.279) A theory and practical course on physical therapy management of patients with specific disorders. 150 hours.

PT 2890 Rehabilitation Biomechanics Cr.Hrs.3 (Formerly 167.289) Theory and practical application of biomechanics of human movement in relation to rehabilitation. Prerequisites: REHB 1480 (or 068.148), REHB 1490 (or 068.149) and REHB 1500 (or 068.150), or equivalent. 40 hours.

PT 3730 Advanced Musculoskeletal Topics Cr.Hrs.3 (Formerly 167.373) A theory, practical and tutorial-based course designed to provide the opportunity for problem-solving through the integration of relevant information, in the areas of orthopedic and sports physiotherapy. 61 hours.

PT 3740 Integrated Tutorials Cr.Hrs.3 (Formerly 167.374) A theory, practical and tutorial-based course designed to provide the opportunity for problem-solving through the integration of relevant information, in the physiotherapy management of geriatric, women’s health, and multi-system conditions. 41 hours.

PT 3750 Physical Therapy Neurological Interventions Across the Lifespan Cr.Hrs.6 (Formerly 167.375) A theory and practical course on the basic principles of the application of techniques used in the Physical Therapy management of clients with neurological conditions, with a focus on neurological assessment and the treatment for spinal cord injured clients and clients with certain neurological conditions. 108 hours.

PT 3760 Physical Therapy Neurological Interventions Across the Lifespan 2 Cr.Hrs.7 (Formerly 167.376) A theory and practical course on the basic principles of the application of techniques used in the Physical Therapy management of clients with neurological conditions, with a focus on neurological treatment. 115 hours.

PT 3880 Clinical Education in Neurological Disorders Cr.Hrs.8 (Formerly 167.388) Consists of a period of clinical practice related to the management of neurological conditions. Course evaluated on a pass/fail basis. 300 hours, pass/fail grade.

PT 3920 Summer Internship Cr.Hrs.8 (Formerly 167.392) An eight-week period of clinical/practical experience under the direction and supervision of registered physiotherapists. Course evaluated on a pass/fail basis. 300 hours.

REHB 1200 Basic Clinical Sciences Cr.Hrs.3 (Formerly 068.120) A lecture and tutorial course covering basic physiology related to membrane, muscle, pain and the car...
d i ovascular, respiratory, endocrine, and immune systems. 50 hours.

**REHB 1480 Human Anatomy - Systems Cr.Hrs.3** (Formerly 068.148) Lecture and laboratory study of the microscopic and macroscopic structure of the major systems of the human body. Living anatomy of the cardiorespiratory system. 90 hours.

**REHB 1490 Musculoskeletal Anatomy 1 Cr.Hrs.2** (Formerly 068.149) Lecture and laboratory study, including living anatomy, of the musculoskeletal structures of the head, neck and trunk. 50 hours.

**REHB 1500 Musculoskeletal Anatomy 2 Cr.Hrs.3** (Formerly 068.150) Lecture and laboratory study, including living anatomy, of the musculoskeletal structures of the upper and lower extremities. 80 hours.

**REHB 2410 Pathology and Clinical Manifestations Cr.Hrs.4** (Formerly 068.241) A theory course including the basic principles of pathology and clinical manifestations, management and prognosis of patients with musculoskeletal disorders. Prerequisite: PT 1910 (or 167.191). 60 hours.

**REHB 2450 Research Methodology for Medical Rehabilitation Cr.Hrs.3** (Formerly 068.245) A theory and practical course designed to provide a basic understanding of research principles and their application in Medical Rehabilitation. 45 hours.

**REHB 2460 Statistics Cr.Hrs.3** (Formerly 068.246) A theory and practical course designed to provide a basic understanding of statistics with application to Medical Rehabilitation. 45 hours.

**REHB 3410 Pathology and Clinical Manifestations of Neurological Conditions Cr.Hrs.3** (Formerly 068.341) Theoretical study of neurological pathology and clinical manifestations of the basic principles of medical management of persons with neurological disorders. Prerequisite: REHB 2410 (or 068.241). 38 hours.

**REHB 3460 Introduction to Health Care Administration and Management Cr.Hrs.3** (Formerly 068.346) An introduction to professional and administrative issues of current concern to respiratory and physical therapists. Topics to be covered in lecture and seminar format are health care systems, professional ethics, departmental administration, principles of supervision, and medical and legal responsibilities. 39 hours.

**REHB 3930 Neu roanatomy Cr.Hrs.3** (Formerly 068.393) The study of neuroanatomy and neurophysiology of the human body. 47 hours.

**REHB 3940 Neuroscience Cr.Hrs.3** (Formerly 068.394) The study of neuroanatomy and neurophysiology of the human body. 45 hours.

**RESP 1270 Respiratory Anatomy and Physiology Cr.Hrs.3** (Formerly 169.127) Principles of pulmonary mechanics, ventilation, diffusion, perfusion, ventilation-perfusion relationships, gas transport, control of ventilation, and acid-base physiology. 60 hours.

**RESP 1280 Medical Microbiology and Disease Transmission Cr.Hrs.2** (Formerly 169.128) Introduction to Medical Microbiology with emphasis on common pathogens, disease transmission, principles of asepsis, infection control, and sterilization and disinfection procedures. 32 hours.

**RESP 1290 Cardiopulmonary Pharmacology Cr.Hrs.2** (Formerly 169.129) Pharmacology principles, phases of drug events, factors modifying drug effect, drug preparation, individual pharmacologic agents including: ANS drugs, CNS drugs, cardiac medications, respiratory medications, antibiotics. 36 hours.

**RESP 1320 Applied Sciences for Respiratory Therapy Cr.Hrs.3** (Formerly 169.132) Gas laws, unique behaviour of specialty gases, fluid dynamics, fundamental principles of electricity, electronics and electrical safety, concepts of basic and advanced chemistry not treated in REHB 1200 (or 068.120). 53 hours.

**RESP 1330 Technical Aspects of Respiratory Therapy Cr.Hrs.3** (Formerly 169.133) Medical gas and supply systems, flowmeters, respirators, medical gas outlets, vacuum systems, regulatory authorities on the supply, production and distribution of medical gases. 45 hours.

**RESP 1360 Treatment Administration in Respiratory Care Cr.Hrs.3** (Formerly 169.136) Administration of medical gases, humidity and aerosol therapy, environmental therapy, positive pressure breathing devices, respiratory exercises, incentive spirometers and bedside spirometry. 50 hours.

**RESP 1370 Ventilatory Support Principles Cr.Hrs.6** (Formerly 169.137) Physical principles of continuous ventilatory support including: physics of ventilator operation and physiological aspects of ventilatory support. Provides a framework for RESP 2310 (or 169.231) and RESP 2320 (or 169.232). 120 hours.

**RESP 1380 Basic Fieldwork 1 Cr.Hrs.4** (Formerly 169.138) A preparatory period followed by four weeks of field experience under supervision of a practicing respiratory therapist at one or more approved clinical sites. Course evaluated on a pass/fail basis. 160 hours.

**RESP 2300 Respiratory Clinical Assessment Cr.Hrs.6** (Formerly 169.230) The correlation of patho-physiological mechanisms with the clinical manifestations of the common respiratory diseases and how rational management evolves from this understanding. 90 hours.

**RESP 2310 Clinical Aspects of Ventilatory Management Cr.Hrs.3** (Formerly 169.231) Lecture, seminar and laboratory simulation on adult and pediatric ventilatory management. Estimation of ventilatory requirements, ventilator selection, weaning, ventilatory adjuncts, transport, and long term ventilatory support. 45 hours.

**RESP 2320 Ventilatory Support Instrumentation Cr.Hrs.6** (Formerly 169.232) Comprehensive review of the components, operation and use of specified adult, pediatric and neonatal mechanical ventilators. Classroom and laboratory sessions. 173 hours.

**RESP 2330 Pulmonary Investigations Cr.Hrs.3** (Formerly 169.233) Lung function testing principles and procedures including: static and dynamic measures, determination of volumes and capacities, exercise physiology. An analysis of lung function changes relative to common disease physiology. 42 hours.

**RESP 2340 Physiologic Measurements and Instrumentation Cr.Hrs.3** (Formerly 169.234) Acid base physiology, interpretation of physiologic values, design theory, operation and care of gas analyzing devices, oximetry, capnography. 45 hours.

**RESP 2350 Cardiology Cr.Hrs.3** (Formerly 169.235) Aspects of clinical assessment of the cardiovascular system, pathophysiology and selected treatment regimens and modalities. Laboratory on rhythm analysis and aspects of advanced cardiac life support. 60 hours.

**RESP 2360 Pediatrics Cr.Hrs.3** (Formerly 169.236) Normal physiology, diseases and treatment, the child in hospital environment, high risk neonates, principles of intensive care, pediatric emergencies and fetal and maternal medicine. 60 hours.

**RESP 2370 Anesthesiology Cr.Hrs.3** (Formerly 169.237) Principles of anesthesia, airway management, pain management, anesthetic agents, function of the anesthesia machine, pre- and postoperative assessment, recovery and safety features in the operating room. 45 hours.

**RESP 3300 Seminars in Respiratory Care Cr.Hrs.3** (Formerly 169.330) A series of seminars on Respiratory Disease and other clinical topics designed to bring together practical and theoretical aspects of the program. 60 hours.

**RESP 3310 Clinical Education in Intensive Care Cr.Hrs.10** (Formerly 169.331) This course consists of 10 weeks of clinical experience in the adult intensive care setting in an approved clinical site. Course evaluated on a pass/fail basis. 432 hours.

**RESP 3320 Clinical Education in Pediatric Respiratory Care Cr.Hrs.3** (Formerly 169.332) Three weeks of clinical experience in the Pediatric Intensive Care Unit at Children’s Hospital. Shiftwork and extended shifts may be required. Course evaluated on a pass/fail basis. 144 hours.

**RESP 3330 Clinical Education in Neonatal Respiratory Care Cr.Hrs.4** (Formerly 169.333) Four weeks of clinical experience in the Neonatal Intensive Care Unit at Children’s Hospital and/or St. Boniface General Hospital. Shiftwork and extended shifts may be required. Course evaluated on a pass/fail basis. 180 hours.

**RESP 3340 Clinical Education in Maternal/Fetal Health Cr.Hrs.4** (Formerly 169.334) One week of clinical experience in maternal and fetal health at the Women’s Centre, Health Sciences Centre. Course evaluated on a pass/fail basis. 36 hours.

**RESP 3350 Clinical Education in Pulmonary Diagnostics Cr.Hrs.3** (Formerly 169.335) Three weeks of clinical experience in the pulmonary diagnostic laboratory of an approved clinical site. Course evaluated on a pass/fail basis. 144 hours.

**RESP 3360 Clinical Education in Anesthesiology Cr.Hrs.3** (Formerly 169.336) Three weeks of clinical experience designed to acquaint the student with actual clinical techniques and procedures used in the operating and recovery room. Course evaluated on a pass/fail basis. 144 hours.

**RESP 3370 Clinical Education in Community Care Cr.Hrs.4** (Formerly 169.337) Four weeks of clinical experience in community care settings including: pre-hospital care, health and wellness promotion, interfacility transport, chronic care, home care and community outreach. Course evaluated on a pass/fail basis. 180 hours.

**RESP 3380 Clinical Education in Respiratory Care Cr.Hrs.4** (Formerly 169.338) Four weeks of clinical experience spent in the non-intensive care setting working with a variety of medical and surgical patients. Course evaluated on a pass/fail basis. 180 hours.