

SCHOOL OF PHYSICAL THERAPY

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Associate Members

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Clinical Instructors*

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*Denotes non-members of faculty.

GENERAL INFORMATION

Physical therapy plays an important role in the delivery of health care. The primary goal of physical therapy is the prevention or alleviation of movement dysfunction for the purpose of promoting maximal physical independence and function. To this end, a physical therapist may work independently or as a member of a health care team to evaluate a patient's condition and provide treatment. Physical therapists work in a variety of settings including hospitals, clinics, rehabilitation centres, long term care hospitals, special care homes, schools, community programs, and private practice.

A Physical Therapy program was first offered at the University of Saskatchewan in 1965 by the Department of Rehabilitation Medicine, College of Medicine. In 1976, the School of Physical Therapy was established within the College of Medicine.

Faculty in Physical Therapy, faculty from various departments in the College of Medicine, and other colleges, as well as physical therapy clinicians contribute to the teaching program.

Students complete five years of study for the degree of Bachelor of Science in Physical Therapy - B.Sc.(P.T.), which includes two pre-physical therapy years followed by three years in the School of Physical Therapy.

ADMISSION

Applicants to the School of Physical Therapy must satisfy the following residency qualifications:

(1) An applicant must be a Canadian citizen or a landed immigrant and a resident of the Province of Saskatchewan, the North West, Nunavut or Yukon Territories.

(2) For the purpose of determining qualifications for admission to the School of Physical Therapy, an applicant normally is considered to be a "resident" under paragraph 1 above if one of the following conditions applies:

a) The applicant has established a place of residence in Saskatchewan or the North West, Nunavut or Yukon Territories, at least one calendar year immediately prior to September 1 in the year of proposed admission.

b) Irrespective of the current place of residence of the applicant, the applicant's family home (i.e. the home of parents, guardians, foster parents or spouse), is in Saskatchewan, or the North West, Nunavut or Yukon Territories.

c) The applicant, or parent of the applicant, is a graduate of the University of Saskatchewan.

d) The applicant is currently serving, or is a member of a family unit in which the parents, guardians or spouse are serving in the Armed Forces or R.C.M.P., and where the family unit has been transferred to Saskatchewan or the North West, Nunavut or Yukon Territories.

Applicants admitted to the program must be prepared to participate in physical/body examinations as part of their course of studies and must be prepared to undress sufficiently to allow examination. There are considerable physical demands placed on students in the laboratories and clinical practica as part of their required course of studies, and therefore a certain level of physical ability is expected. Any applicant with a physical disability should consult with the Director to discuss the physical demands required to successfully complete the program.

The General Information and the College of Arts and Science sections of the Calendar provide details on the requirements for admission, including the courses acceptable towards elective requirements, and the Grade 12 standing required for admission to the pre-physical therapy program.

A two year pre-physical therapy program (60 credit units) can be completed at the University of Saskatchewan as indicated below, or with equivalent courses offered at other universities. Applicants must complete at least one full academic year. (Note: full academic year = minimum of 30 academic credit units completed between September and April.) All courses must be completed by April of the year of application.

The program below constitutes the normal **first year** of studies of 30 credit units.

• BIOL 110.6; • CHEM 111.3, • CHEM 251.3 (recommended) or 3 credit units in other 200-level Chemistry; • PHYS 111.6; • PSY 110.6; • ENG 110.6 or any two of ENG 111.3, 112.3, 113.3, 114.3.

In the **second year** of studies the following 30 credit units of courses are required: • HSC 208.6; • 3 credit units in Statistics* (PL SC 314.3 or STATS 245.3); ▲ 9 credit units humanities/social sciences electives **; ▲ 12 credit units of Academic electives. ***

* Applicants must receive approval of the Admissions Committee for any other statistics courses.

** Only courses listed on pg. 49 of the University of Saskatchewan 2000-2001 Calendar under B.A. and B.Sc. Degree Requirements for Humanities and Social Sciences will be considered as humanities and/or social science courses. Classics 103.3, 104.3 and 105.3 are not considered humanities courses.

***Suggested areas: for elective course study include, but are not limited to Native Studies, Nutrition, Computer Science and Womens Studies. Kinesiology Activity courses (KINAC) are not considered academic electives.

• Designated pre-physical therapy courses
▲ Elective courses

An outline of an equivalent program offered at the University of Regina is found in the General Information section of the *Calendar*. For further information contact the Registrar's Office, the University of Regina, Regina SK S4S 0A2.

Students must obtain a minimum of 60% in each full course making up the 39 credit units of designated pre-physical therapy courses(•). Where 2 half-courses are taken to complete Chemistry, Biology, Physics, Psychology and English designated requirements, a student must earn a grade of 60% based on the average of the two courses. Students who receive grades below 60% in designated pre-physical therapy courses(•) can improve the grades

for those courses by taking an equal number of credit units of higher level courses in the same subject areas or by repeating the courses. If courses are repeated, an average of the previous and the more recent grade will be taken. Students who receive grades above 60% in any course cannot improve the grades for those courses by repeating them. If a higher level course is taken, the grade for this course will be substituted for the previous grade. The minimum 60% grade does not apply to the 21 credit units of electives(▲).

For further clarification, students should consult the Admissions Secretary at the School of Physical Therapy, University of Saskatchewan for admission requirements to the Physical Therapy program. Applicants should be aware that second and third hand information about admissions policies should not be relied upon. Applicants are advised to supplement in person or telephone admission inquiries with written inquiries. Written inquiries will receive written responses from the Admissions Committee. Only written responses will be accepted as evidence of the official advice given by the School of Physical Therapy.

Applications for admission to the B.Sc.(P.T.) program must be submitted on the official School of Physical Therapy form, which can be obtained from the Admissions Secretary. The deadline for receipt of applications **and** all supporting documents is January 15. Students from any universities other than the University of Saskatchewan must arrange to have their transcripts forwarded directly to the School. **A transcript of final marks for second term courses (including results of April examinations) in the year in which application is being made must be received by May 18.**

Thirty students are admitted into the first year of the Physical Therapy program each year. Meeting the admission requirements does not guarantee admission to the School, as each year there are more applicants than available positions. Selection for admission is based upon academic performance (i.e. grade point average) and interview performance. The minimum grade point average for admission is 70% (normally calculated using the most recent full academic year). The grade point average will be used to rank applicants. Up to 90 interviews will be offered to individuals who meet admission requirements and Saskatchewan residency requirements of the University of Saskatchewan. When computing applicants' admission scores, the academic average is weighted 60% and the interview score is weighted 40%.

Admissions interviews are normally scheduled for mid-March. The admission interview, which is semi-structured in nature, will consider personal qualities, motivation towards physical therapy as a career, knowledge of physical therapy, communication skills and general knowledge. An understanding of the nature and scope of physical therapy practice may be obtained from visits (by appointment) to physical therapy facilities or programs, as well as from introductory chapters in

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physical therapy textbooks and editorials/articles in physical therapy journals. When considering facility visits, one or two visits should provide sufficient first hand information to the applicant who is well prepared for the experience.

Notification of the results of the admission process will be forwarded to interviewees in June.

Applicants admitted to first year of the Physical Therapy program are required to obtain Level "C" Cardiopulmonary Resuscitation certification during the first six weeks of the first term of the program unless they have obtained such certification within the previous twelve months. This certification must be updated annually.

ABORIGINAL APPLICANTS

Each year, two positions for admission to the School of Physical Therapy are designated for applicants of Aboriginal ancestry who meet admission requirements. Students wishing to be considered in this category should indicate this choice on the application for admission. Self-identification of Aboriginal ancestry does not exclude applicants from being considered in the general applicant pool, in addition to being considered for one of the designated places for applicants of Aboriginal ancestry.

Whenever possible, the team that interviews individuals applying for one of the designated places will include a member of Aboriginal ancestry.

SPECIAL CASES

The Admissions Committee may consider up to two special case entrants per year for individuals unable to complete 30 credit units in a normal academic year during the pre-physical therapy program. An example would be a parent whose family responsibilities prevent full-time attendance at university. Such applicants must meet all other admission requirements. Applicants wishing to be considered in this category should contact the Admissions Secretary.

DISABILITY AND ADMISSION TO PHYSICAL THERAPY

While a disability should not preclude a student from consideration for admission, the disability must not prevent the student from communicating with patients and/or colleagues, or from physically performing assessment and treatment procedures.

REGISTRATION

See the General Information section of the *Calendar*.

ATTENDANCE

Students are required to regularly attend all lectures and laboratory periods. Failure to meet these expectations may result in a student being required to discontinue the program.

FEES, PAYMENT OF FEES, CANCELLATIONS AND REFUNDS, WITHDRAWAL DATES AND COURSE CHANGES

See the General Information section of the *Calendar*.

BACHELOR OF SCIENCE IN PHYSICAL THERAPY PROGRAM B.S.C.(P.T.)

First Year

ANAT 215.6, 234.3; PATH 205.3; P TH 205.3, 222.3, 223.3, 225.3, 236.3, 240.3, 264.3, 283.3

Summer following first year

P TH 276.6 (5 weeks).

Second Year

P TH 301.3, 302.3, 303.3, 304.3, 306.3, 308.3, 311.3, 312.3, 337.3, 341.3, 367.3.

Summer following second year

P TH 378.12 (10 weeks).

Third Year

P TH 403.3, 421.3, 439.3, 440.3, 462.15, 490.3.

The clinical placements for P TH 276 are in Saskatchewan; most are in Saskatoon or Regina. The placements for P TH 378 are in Saskatchewan for the first 5 weeks, with an option to request an out of province placement for the last 5 weeks. For P TH 462, normally 2 placements will be in Saskatchewan and one placement will be out of province. A maximum of 2 placements out of province is allowed. A small stipend for out of province placements is usually provided.

POST PHYSICAL THERAPY DIPLOMA PROGRAM

This program may be completed by physical therapists who hold a diploma qualification from a Canadian university. Interested persons should consult with the Director. The following criteria will be applied in the selection of applicants:

(1) Applicants will have to satisfy university entrance requirements.

(2) Applicants will have their physiotherapy qualifications evaluated by the University of Saskatchewan.

(3) Applicants who demonstrate professional suitability evaluated by such means as an interview, references, postgraduate education and experience, and professional activity will receive preference.

GRADING SYSTEM

See the General Information section of the *Calendar* for a full explanation of the grading system and the literal descriptors associated with percentage grades.

STANDARDS OF ACADEMIC PERFORMANCE

(1) In order to be promoted, a student must have passed all courses included in the curriculum for the year, with an overall average of 60%, and achieve a grade of Satisfactory (60%) or better in all the Physical Therapy courses that are graded on other than a pass/fail basis.

(2) In order to be eligible for the degree of Bachelor of Science in Physical Therapy, a student must have passed all required courses in the program, have achieved a weighted average of at least 60% in each year of the program, and have received a grade of Satisfactory (60%) or better in all the Physical Therapy courses in the program that are graded on other than a pass/fail basis.

(3) The degree will be awarded with Distinction to a student who attains a minimum of 80% Cumulative Grade Point Average *and* clinical performance designated as superior. The degree will be awarded with Great Distinction to a student who attains a minimum of 85% Cumulative Grade Point Average *and* clinical performance designated as superior.

(4) The requirements of the three clinical education courses must be successfully completed in the correct sequence, i.e. P TH 276, 378, 462. Since the program schedule does not allow time for repeating clinical courses or undertaking remedial work, if such actions are required, the time normally allocated for P TH 378 will firstly be used for completing a deficiency in P TH 276. Any remaining placements required for P TH 378 will be completed in the time allocated for P TH 462. Any placements consequently remaining for P TH 462 will be completed in the summer following the completion of the final regular academic year courses.

(5) The grading of the clinical education courses, P TH 276, 378 and 462 will be Pass or Fail.

(6) A student who receives a grade of Fail in P TH 276 will be required to repeat the course.

(7) A student will usually be required to complete a minimum of one placement of remedial work if, in either P TH 378 or 462, there is a failure in one placement.

(8) A student will usually be required to repeat P TH 378 or 462 if, in either course, one of the following circumstances applies:

- a) - failure in two or more placements, or
- b) - failure in a placement after a period of remedial work.

(9) Under normal circumstances, a student who receives a grade of Fail after repeating either P TH 378 or 462, or who receives a grade of Fail in P TH 462 after having to repeat P TH 378, will be required to discontinue.

(10) An action appropriate to the degree of failure will be required of a student who, at the end of any year, fails to meet any of the standards of performance (i.e., pass all courses and attain a sessional weighted

average of at least 60%). Possible actions include requirements to:

- a) repeat the failed course(s) or, if a supplemental examination privilege is granted, pass that examination, or
- b) repeat the work taken during the year, or
- c) discontinue all studies at the School for one year, and if later readmitted, repeat the work taken in the year when academic studies were discontinued.

(11) Except by special permission of the Faculty, no student will be permitted to register for the full program of studies in any session who has not completed, in full, the requirements of previous sessions.

(12) A student may be required to discontinue the Physical Therapy program for non-academic reasons such as health.

LICENSE TO PRACTICE

Students are reminded that a Bachelor of Science degree in Physical Therapy does not in itself confer the right to practice. This is granted by the licensing body of the province in which one intends to practice.

A national licensing examination is available to students graduating from Canadian universities. In some provinces, successful completion of this examination is required to meet licensing requirements.

SCHOLARSHIPS AND AWARDS

Scholarships and awards which are open to students in Physical Therapy are listed below. Further details are included in the *Awards Guides*, and in the School of Physical Therapy student handbook.

Arthritis Society, Wallace Graham Memorial Prize for student entering final year of program	\$1,425
Arthritis Society Award-for two students progressing to 2nd year of program	\$500
Arthritis Society Award-for student progressing to 3rd year of program	\$500
University Undergraduate Scholarships	\$1,000
Arthritis Society Talmage E. Hunt Award to the top graduating student at Spring convocation	\$250
Gold Medal in Physical Therapy awarded to the most distinguished graduating student in the event that he/she graduates at the Fall, rather than at the Spring ceremony.	
Canadian Physiotherapy Association Award-first year membership to a graduating student for academic and clinical proficiency.	
Canadian Physiotherapy Cardio-Respiratory Society Student Excellence Prize to a graduating student for proficiency in Cardio-Respiratory Physical Therapy courses	\$100
N. W. Tymchyshyn Memorial Bursary awarded by War Amputations of Canada (Saskatchewan Branch) to a student entering 4th year of program for outstanding clinical proficiency	\$1,000
Saskatchewan Physiotherapy Association Prize to a student entering second year of study (\$100) and to a student entering final year of study (\$200) who have demonstrated involvement in the profession.	
Jean Eaton Memorial Award to a graduating student for proficiency in orthopaedic physical therapy courses .	\$150
J. Manton Award - plaque to a graduating student who has shown the greatest improvement in clinical performance.	
V. J. Cottrell Award - a plaque to a graduating student who has made an outstanding contribution to the School, the student body and the profession.	
Sport Physiotherapy Saskatchewan Award to a student in the final year for academic proficiency throughout the program and activity in Sport Physiotherapy Saskatchewan	\$300
Tony Cottrell Memorial Award to a student entering final year for outstanding academic achievement in the neurosciences curriculum of the program	\$250
Marjorie Mae Braid Memorial Bursary for two students entering final year based on financial need and outstanding academic achievement in the musculo-skeletal physical therapy curriculum	\$1,250

COURSE DESCRIPTIONS

See the General Information section of the *Calendar* for an explanation of the format used in course descriptions.

For descriptions of courses given by other colleges, see the appropriate section of the *Calendar*.

ANATOMY

**ANAT 215.6
Basic and Applied Human Anatomy
1&2(3L-3P)**

Prerequisite(s): BIOL 110.

Primarily for students of Physical Therapy. Includes basic gross anatomy of the human body supplemented with essential elements of cell biology, histology and organ development. Emphasis is given to the musculo-skeletal system with all aspects of function and application to the need of physical therapists.

**ANAT 234.3
Introductory Neuroanatomy**

For details see the College of Medicine section of the *Calendar*.

PATHOLOGY

**PATH 205.3
Elementary Pathology
1/2(3L)**

A course in general and special pathology for pharmacists and physical therapists.

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Students who have not been accepted into the School of Physical Therapy require approval from the course instructor to register in any of the following courses.

**P TH 205.3
Cardio-Respiratory System I
2(4L-1.5P)**

Study of the etiology, pathophysiology, clinical features, medical, surgical and physical management of conditions affecting the cardiovascular and respiratory systems is commenced in this course. A lecture/laboratory/self-study format is employed.

**P TH 222.3
Therapeutic Movement I
1(3L-2P)**

Theory and application of therapeutic positioning and movement; exercise prescription; equipment prescription and use.

**P TH 223.3
Therapeutic Movement II
2(3L-2P)**

Theory and application of therapeutic positioning, therapeutic movement, re-education of basic motor skills and neuromuscular facilitation are studied in lectures and laboratories.

**P TH 225.3
Foundations of Exercise and Work
Physiology for Physical Therapists
1(2.5L-.5P)**

An introduction to exercise/work physiology for physical therapists. The course will examine the physiological foundations from which activity/exercise

assessment, and treatment are derived. Labs and tutorials will focus on examination of the physiological responses to physical activity with discussion of altered responses in clinical populations and changes in techniques and approach required for monitoring and evaluating those clinical populations.

**P TH 236.3
Clinical Kinesiology I
2(3L-2P-1T)**

A lecture and laboratory course which examines the theory underlying therapeutic and assessment methods by the application of the principles of biomechanics and functional anatomy. Also included is a detailed study of surface anatomy.

**P TH 240.3
Electro-Physical Agents in Physical
Therapy I
1/2(2L-1.5P)**

The physical principles, physiological effects and therapeutic uses of various heating, cooling and mechanical modalities, are covered in this theoretical and practical course. A mastery learning approach is taken to enable students to develop competence in the use of hot and cold treatments, wax, infrared, diathermy and therapeutic ultrasound.

**P TH 264.3
Introduction to Physical Assessment
and Treatment Planning
1(3L-.5C-.5T)**

A lecture, tutorial and case study course with clinical facility visits, introducing the basic framework for physical therapy assessment, program planning, and treatment. A general approach to client assessment and determination of treatment plans will consider all body systems, and will integrate subjective and objective evaluation, differential diagnosis, holistic goal setting, discharge planning, and outcome measurement. Documentation formats common to physical therapy settings will be reviewed, and emphasis placed on medico-legal requirements of client record-keeping, use of standardized World Health Organization terminology.

**P TH 276.6
Clinical Applications of Basic Skills
3(37.5C)**

Consists of a five week, full-time period of clinical education in the spring following the first year. Placements are in Saskatchewan centres.

**P TH 283.3
Educational Methods in Physical
Therapy
1(3L)**

A theoretical and practical course in the principles of learning and instruction which can be applied in clinical treatment, the design, implementation and evaluation of patient education programs, instruction of relatives or other health care personnel on patient management and in clinical teaching and supervision of students.

Note: Students with credit for P TH 482 may not take this course for credit.

**P TH 301.3
Musculo-Skeletal Assessment and
Treatment I
1(2L-4P)**

A lecture and laboratory course in the biomechanical assessment and treatment of the upper quadrant. Includes subjective assessment, objective assessment scans, contractile and inert tissue differentiation, capsular and non capsular patterns, principles of manual therapy for treating pain and resistance, indications and contraindications of treatment.

**P TH 302.3
Musculo-Skeletal Assessment and
Treatment II
2(2L-4P)**

A lecture and laboratory course in the biomechanical assessment and treatment of the lower quadrant. A continuation of P TH 301, and will cover similar assessment procedures, and principles of treatment as appropriate for the lower quadrant.

**P TH 303.3
Nervous System I
1(5L-1.5P)**

Normal motor control, motor learning theory, and abnormalities of movement resulting from lesions of the nervous system are studied as a basis for developing appropriate physical therapy assessment and treatment methods. Application of these methods to the management of adult hemiplegia completes course content.

**P TH 304.3
Nervous System II
2(4.5L-1.5P)**

Continues the study of the physical therapy assessment and treatment methods for neurological conditions including adult hemiplegia, brain injury, spinal cord injury, Parkinson's disease, multiple sclerosis, post-polio syndrome, and amyotrophic lateral sclerosis.

**P TH 306.3
Cardio-Respiratory System II
1(4L-.75T-.75P)**

Study of diseases affecting the respiratory and cardiovascular systems is continued in lecture/ laboratory/self-study format.

**P TH 308.3
Lifespan, Nutrition and
Pharmacology: Considerations in
Physical Therapy
1/2(4L)**

Covers theory and clinical management related to physical therapy assessment and treatment through the lifespan. Various health professionals will present topics including, growth and development, obstetrics and gynaecology, gerontology, pain, pharmacology and nutrition.

**P TH 311.3
Musculo-Skeletal System I
1/2(4.5L-.5T)**

The etiology, pathology, bone and soft tissue healing, medical, surgical and physical therapy management of trauma, repetitive strain injury and other conditions affecting the musculo-skeletal system, including: fractures: dislocations and subluxations, mechanical derangements, peripheral nerve injuries, burns and frostbite, and lesions in

soft tissues, are presented in lectures and case study.

**P TH 312.3
Musculo-Skeletal System II
1/2(4.5L-.5P)**

The epidemiology, etiology, pathology, and clinical features of common rheumatic diseases and amputations are presented. Management of these disorders includes assessment, medication, surgery, and therapeutic intervention.

**P TH 337.3
Clinical Kinesiology II
1(3L-2P-1T)**

A continuation of P TH 236. Examines the body regionally with respect to biomechanics, common pathomechanics, and physical therapy methods of measurement. Analysis of movement with special attention to gait. Continues the detailed study of surface anatomy.

**P TH 341.3
Electro-Physical Agents in Physical
Therapy II
1/2(2L-3P)**

The physical principles, physiological effects and therapeutic uses of diagnostic and therapeutic electrical stimulation and various forms of phototherapy, are covered in this theoretical and practical course. A mastery learning approach is taken to enable students to develop competence in electro-diagnostic testing, the use of various electrotherapeutic currents, ultraviolet light and laser biomodulation.

**P TH 367.3
Clinical Assessment
2(2L-1C-1T)**

Combines lectures, clinical assessment assignments and tutorials, providing opportunity for application of assessment theory and skills in a variety of clinical settings. Tutorials analyze the assessment experience and data. Lectures prepare the student for full-time clinical practicum.

**P TH 378.12
Clinical Practicum I
3(37.5C)**

A ten-week, (normally 2 x 5 weeks), full-time period of clinical education following the second term of second year. The last five weeks may be completed in an out-of-province placement, part of the out-of-province experience required from this course or P TH 462.

**P TH 403.3
Research Methodology
1(4L)**

The primary emphasis of this class will be on theoretical discussion and practical activities which contribute to the development of research skills applicable to evidence-based practice of physical therapy. Using research reports pertaining to physical therapy found in the medical literature, students will apply research theory to classify research design, identify design elements, apply methodological analysis tools, evaluate internal and external validity of research and determine the implications for clinical practice.

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P TH 421.3
Exercise Testing and Prescription for Special Populations
1(4.5L-.5P-.5T)

The pathophysiologic and theoretical basis of exercise testing and prescription for rehabilitation programs for various conditions are studied.

P TH 439.3
Orthopedic and Sports Physical Therapy: Therapeutic Exercise, Manual Therapy, Integrated Management
1(3L-2P)

Covers the assessment and treatment of common musculoskeletal conditions and sport related injuries, including manual

therapy techniques and selected manipulation techniques. Advanced therapeutic exercise prescription, functional screening evaluation, goal setting and outcome measurement in the musculoskeletal area will also be emphasized. Course content will be covered in lecture and practical sessions.

P TH 440.3
Advanced Neurological and Cardiorespiratory Systems
1(3L-1.5P)

A final year course including neurological and cardiorespiratory topics for physical therapists. The neurological component includes study of normal sensori-motor development during the first 18 months of

life, assessment and treatment of cerebral palsy, as well as comparison of neurofacilitation treatment approaches and systems-based task-oriented approaches to the management of neurological conditions. The cardiorespiratory component will focus on the assessment and management of cardiorespiratory sequelae of common progressive neuromuscular conditions, high level spinal cord injuries, and selected restrictive lung disorders. Issues, approaches, outcome measures and resources inherent to ICU, community-based and direct access physical therapy clinic settings will be discussed.

P TH 462.15
Clinical Practicum II
2(37.5C)

Consists of a 16 week, (normally 2 x 5 weeks, 1 x 6 weeks), full-time period of clinical education in the second term of the final year. Normally, two rotations are spent in Saskatchewan, and one rotation in out-of-province centres.

P TH 490.3
Professional Issues
1(2L-2S)

Study of the legal, ethical, social and economic factors which affect the role of the physical therapist and the principles of departmental organization and management.