

I. COURSE DESCRIPTION:

This course will enable the student to competently design and implement safe and appropriate intervention strategies for a Physiotherapy Treatment Plan. It is designed to develop the essential skills learned in Physiotherapy Clinical Skills I. The student will identify the role of the PTA in the rehabilitation process, and practice these skills in complex clinical scenarios. The emphasis will be on the application of therapeutic exercise, mobility and ambulation, and other modalities. Drawing on their knowledge of clinical pathology, the student will identify impairments expected for common conditions. The student will gain critical thinking skills required to identify appropriate interventions, implement and document components of a treatment plan as prescribed by and under the supervision of a Physiotherapist.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

In general, this course addresses Learning Outcomes of the Program Standards in: communication skills (1, 2, 8P, 9P, 10P, 11P, 12P, safety (1, 2, 4, 8P, 9P, 10P, 11P, 12P), professional competence (1, 2, 4, 5, 7, 8P, 9P, 10P, 11P, 12P), and application skills (1, 2, 4, 8P, 9P, 10P, 11P 12P). It addresses all of the Generic Skills Learning Outcomes.

Upon successful completion of this course, the student will:

1. Demonstrate knowledge, comprehension and application of the clinical presentation of common disabling conditions managed in a physiotherapy setting.

Potential Elements of the Performance:

- Identify and describe the clinical presentation of common conditions covered in Clinical Pathology II
- Identify probable impairments of these conditions and determine the goals of the Physiotherapy management of these
- Identify appropriate interventions and demonstrate the application of skills to implement these
- Describe the application of therapeutic exercise and mobility as it relates to each condition and the Physiotherapy management of each condition

2. Demonstrate comprehension of the role of the Registered Physiotherapist and the Physiotherapist Assistant in the physiotherapy management of common disabling conditions.

Potential Elements of the Performance:

- Demonstrate an understanding of the roles of the Registered Physiotherapist and the Physiotherapist Assistant in the rehabilitation process (referral, assessment, treatment planning, implementation and monitoring of the treatment plan, ongoing patient monitoring and re-assessment, discharge and documentation)

3. Demonstrate application, analysis, synthesis and evaluation of the basic physiological effects of exercise.

Potential Elements of the Performance:

- Identify different aspects of Physical Function (balance, cardiopulmonary fitness, coordination, flexibility, mobility, muscle performance, neuromuscular control, postural control and stability)
- Identify common physical impairments and describe appropriate management through therapeutic exercise interventions
- Identify, describe and apply different types of therapeutic exercise interventions aerobic conditioning, muscle performance (strength, power, endurance), stretching, neuromuscular control, postural control, stabilization, balance, relaxation, breathing, task-specific functional training
- Educate patients regarding the benefits and purposes of the different types of therapeutic exercise interventions and the environments where these activities may take place
- Appropriately select and apply different types of exercise: passive, active, active assistive, resistive (isometric, isotonic, eccentric and concentric)

4. Demonstrate application and synthesis of concepts in the implementation, maintenance and monitoring of therapeutic exercise programs in complex clinical situations, as prescribed by and under the supervision of the Registered Physiotherapist.

Potential Elements of the Performance:

- Demonstrate skill in progressing exercise routines and educate patients about the risks of over-loading or under-loading their exercises
- Instruct patients in functional activities that may be used to increase strength
- Using a variety of equipment, implement and maintain a range of motion program prescribed by a Registered Physiotherapist
- Using a variety of equipment, implement and maintain a strengthening program prescribed by a Registered Physiotherapist
- Demonstrate communication skills that help reinforce the Physiotherapist's instructions (alternate ways of teaching the same exercise, motivating patients)
- Demonstrate skill in the operation, care and maintenance of equipment such as mobility aids, exercise equipment, assessment tools etc.

5. Demonstrate skill in the application of knowledge while evaluating changes in clients' progress.

Potential Elements of the Performance:

- Demonstrate competence in the recognition and reporting of changes in behaviour patterns (eg. signs of distress) and identify the actions to be taken
- Demonstrate competence in the recognition and reporting of variances from expected patient performance (eg. exercise completion, ambulation etc.)
- Demonstrate competence in gathering and reporting of common data measurement methods

6. Demonstrate knowledge, comprehension and application of contraindications, precautions, and safety issues in the application of therapeutic exercise.

Potential Elements of the Performance:

- Demonstrate competence in the recognition and reporting of precautions/contraindications to therapeutic exercise
- Demonstrate competence in the recognition and reporting of safety concerns as they relate to the application of therapeutic exercise

7. Demonstrate application, synthesis of concepts and evaluation, in the design and implementation of therapeutic exercise, as prescribed by a Registered Physiotherapist.

Potential Elements of the Performance:

- Demonstrate competence in the design and implementation of exercise routines as prescribed by a Registered Physiotherapist
- Using appropriate equipment, design and implement a range of motion program established by a Registered Physiotherapist,
- Using appropriate equipment, design and implement a strengthening program established by a Registered Physiotherapist
- Under the supervision of a Registered Physiotherapist, modify a therapeutic exercise program according to the needs of the individual, group or the setting
- Under the supervision of a Registered Physiotherapist, design and implement a group exercise class

8. Demonstrate application, synthesis of concepts and evaluation and in the safe use of assistive devices, transfer techniques and bed mobility in complex clinical situations.

Potential Elements of the Performance:

- Demonstrate competence in the selection and use of assistive devices and equipment used in exercise programs/facilitation techniques
- Appropriately select and perform safe transfers accommodating different impairments
- Demonstrate competence in the identification and selection of levels of assistance and safety procedures that maybe required for therapeutic activities and forms of mobility (shoes, surfaces, risks of falling, client's with IV's, ostomy bags, catheters etc.)
- Demonstrate skill in the selection, set-up, and instructions regarding safe use of assistive ambulation devices
- Demonstrate competence in the performance of safely portering a client: selection and performance of safe transfers, taking and giving a verbal report, monitoring client responses
- Demonstrate competence in handling skills related to bed mobility, safe transfer techniques, use of a mechanical lift
- Demonstrate communication skills that reinforce the Registered Physiotherapist's instructions
- Demonstrate competence in the recognition of significant departures from the expected patterns in patient response, and report them accurately to the Registered Physiotherapist

9. Demonstrate application, synthesis of concepts and evaluation in the safe and appropriate handling skills in specific disabling conditions.

Potential Elements of the Performance:

- Demonstrate competence in the identification of different types of muscle tone and appropriate handling techniques
- Under the supervision of a Registered Physiotherapist, adapt activities and handling for clients with specific conditions and for the elderly and very young

10. Demonstrate application, synthesis of concepts and evaluation in the measurement of joint range of motion.

Potential Elements of the Performance:

- Demonstrate competence in the measurement of joint range of motion selecting appropriately from a variety of techniques (goniometry, tape measure etc) given different clinical situations
- Explain the essential components of reliable, valid goniometry
- Demonstrate competence in goniometry and identification of normal range of movement for all synovial joints

11. Demonstrate knowledge and comprehension of cardio-respiratory conditions and application of the role of the PTA in the physiotherapy management of these conditions.

Potential Elements of the Performance:

- Identify the impairments of common cardio-respiratory conditions and the goals of treatment in the Physiotherapy management of these
- Demonstrate competence in the application of therapeutic exercise and mobility as it relates to each condition and the Physiotherapy management of each condition
- Demonstrate competence in the performance of: postural drainage, deep breathing and coughing, manual percussion, mechanical vibration, breathing exercises (diaphragmatic, pursed lip)
- Recognize signs of respiratory distress, when and to whom to report this to, and appropriate management by the PTA
- Recognize changes in sputum production and when to report this to the Registered Physiotherapist

12. Demonstrate application, synthesis of concepts and evaluation during objective problem solving and decision making related to the implementation of a treatment plan as prescribed by a Physiotherapist.

Potential Elements of the Performance:

- Recognize variances in patient populations and individuals and adapt therapeutic interventions appropriately
- Demonstrate competence in identification of problems, including incongruence between prescribed intervention and appropriate environment, safety concerns, and client response to intervention.
- Demonstrate skill in reporting problems and making decisions under the supervision of a Registered Physiotherapist

III. TOPICS:

1. Rehabilitation Process and Implementation of PT Treatment Plan
2. SOAP Notes

3. Examination Procedures
4. Intervention Procedures
 Handling, Positioning and Draping
 Transfers and Bed Mobility
5. Assistive ambulation

6. Goniometry

7. Chest Physiotherapy

8. Therapeutic Exercise
 Range of Motion
 Resistance Exercise
 Aerobic Exercise
 Stretching

9. Neurorehab Cases
10. Orthorehab Cases

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Umphred, Darcy. (2006). Neurorehabilitation for the Physical Therapist Assistant. SLACK Incorporated.

Kisner and Colby. (2002) Therapeutic Exercise. Foundations and Techniques (5th edition). F.A. Davis Company (from 2nd semester)

Lippert, L. Clinical Kinesiology for Physical Therapist Assistants (from 1st semester)

Frazier, M and Drzymkowski, J. (2000). Essentials of Human Diseases and Conditions (2nd ed.), W.B. Saunders Company (from 2nd semester)

Garrison, S. (1995). Handbook of Physical Medicine and Rehabilitation Basics. Lippincott-Raven (from 2nd semester)

Norkin, C. and White, D. (2003). Measurement of Joint Motion. A Guide to Goniometry. (3rd ed.). F.A. Davis Company. (from 2nd semester)

V. EVALUATION PROCESS/GRADING SYSTEM:

Students in the OTA/PTA program must successfully complete this course with a minimum C grade (60%) as partial fulfillment of the OTA/PTA diploma.

1. A combination of tests and assignments will be used to evaluate student achievement of the course objectives. A description of the evaluation methods follows and will be discussed by the teacher within the first two weeks of class.

In Class Simulation (OSCE and written assignments)	50%
TYOB Assignment	15%
Exercise Class Assignment	10%
Final Exam – Written	25%
Total	100%

2. All tests/exams are the property of Sault College.
3. Students missing any of the tests or exams because of illness or other serious reason must notify the professor **BEFORE** the test or exam. The professor reserves the right to request documents to support the student's request.
4. Those students who have notified the professor of their absence that day will be eligible to arrange an opportunity as soon as possible to write the test or exam at another time. Those students who **DO NOT NOTIFY** the professor will receive a zero for that test or exam.
5. For assignments to be handed in, the policies of the program will be followed. For assignments not handed in by the due date, the mark received will be zero. Extensions will be granted if requested in writing at least 24 hours before the due date. There will be a deduction of one percent (of final grade) per day for every school day late with the permission of an extension. This means that an extension for 5 school days (1 week), will result in 5 percentage points deducted from the final grade.

The following semester grades will be assigned to students in post-secondary courses:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 – 100%	4.00
A	80 – 89%	3.00
B	70 - 79%	2.00
C	60 - 69%	1.00
D	50 – 59%	0.00
F (Fail)	49% and below	

CR (Credit)	Credit for diploma requirements has been awarded.
S	Satisfactory achievement in field /clinical placement or non-graded subject area.
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.
NR	Grade not reported to Registrar's office.
W	Student has withdrawn from the course without academic penalty.

Note: For such reasons as program certification or program articulation, certain courses require minimums of greater than 50% and/or have mandatory components to achieve a passing grade.

It is also important to note, that the minimum overall GPA required in order to graduate from a Sault College program remains 2.0.

NOTE: Mid Term grades are provided in theory classes and clinical/field placement experiences. Students are notified that the midterm grade is an interim grade and is subject to change.

VI. SPECIAL NOTES:

Student Portal

The Sault College portal allows you to view all your student information in one place. **mysaultcollege** gives you personalized access to online resources seven days a week from your home or school computer. Single log-in access allows you to see your personal and financial information, timetable, grades, records of achievement, unofficial transcript, and outstanding obligations, in addition to announcements, news, academic calendar of events, class cancellations, your learning management system (LMS), and much more. Go to <https://my.saultcollege.ca>.

Attendance

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session. *It is the departmental policy that once the classroom door has been closed, the learning process has begun. Admission to the classroom for late arrivers will at the discretion of the professor.*

Disability Services:

If you are a student with a disability (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Disability Services office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you.

Prior Learning Assessment:

Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit from the program coordinator (or the course coordinator regarding a general education transfer request) or academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question. Please refer to the Student Academic Calendar of Events for the deadline date by which application must be made for advance standing. Credit for prior learning will also be given upon successful completion of a challenge exam or portfolio.

Substitute course information is available in the Registrar's office.

Retention of course outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Course outline amendments:

The Professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Communication:

The College considers **WebCT/LMS** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the **Learning Management System** communication tool.

Plagiarism:

Students should refer to the definition of "academic dishonesty" in *Student Code of Conduct*. A professor/instructor may assign a sanction as defined below, or make recommendations to the Academic Chair for disposition of the matter. The professor/instructor may (i) issue a verbal reprimand, (ii) make an assignment of a lower grade with explanation, (iii) require additional academic assignments and issue a lower grade upon completion to the maximum grade "C", (iv) make an automatic assignment of a failing grade, (v) recommend to the Chair dismissal from the course with the assignment of a failing grade. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Electronic Devices in the Classroom

Students who wish to use electronic devices in the classroom will seek permission of the faculty member before proceeding to record instruction. With the exception of issues related to accommodations of disability, the decision to approve or refuse the request is the responsibility of the faculty member. Recorded classroom instruction will be used only for personal use and will not be used for any other purpose. Recorded classroom instruction will be destroyed at the end of the course. To ensure this, the student is required to return all copies of recorded material to the faculty member by the last day of class in the semester. Where the use of an electronic device has been approved, the student agrees that materials recorded are for his/her use only, are not for distribution, and are the sole property of the College.