# SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY SAULT STE. MARIE, ONTARIO



#### **COURSE OUTLINE**

COURSE TITLE: Physiotherapy Clinical Skills II

CODE NO.: OPA203 SEMESTER: 3

**PROGRAM:** Occupational Therapist Assistant/Physiotherapist Assistant

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DATE: Sept./04 PREVIOUS OUTLINE DATED: N/A

**APPROVED:** 

DEAN DATE

TOTAL CREDITS: 3

**PREREQUISITE(S):** OPA106, PSY204, OPA107, OPA108, OPA109, OPA110,

OPA111, OPA112, OPA113, OPA114

**HOURS/WEEK:** 1.5 hour lecture, 1.5 hour lab

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#### I. COURSE DESCRIPTION:

The purpose of this course is to further develop the essential skills performed by a Physiotherapist Assistant. The emphasis will be on the application of therapeutic exercise, mobility and ambulation, and other modalities in complex patient situations. The student will gain the critical thinking skills required to implement components of a treatment plan as prescribed by and under the supervision of a Physiotherapist. Lab sessions will provide students with the opportunity to apply their problem solving skills as they practice these skills in complex patient situations.

#### 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 of and describe 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 neuromusculoskeletal conditions covered in Clinical Pathology II
  - Identify and describe the clinical presentation of common neurological and cardiorespiratory conditions covered in Clinical Pathology I
  - Identify the impairments of these conditions and the goals of treatment in the Physiotherapy management of these
  - Describe the application of therapeutic exercise and mobility as it relates to each condition and the Physiotherapy management of each condition
- 2. Demonstrate an understanding of the role of the PT and PTA in the physiotherapy management of common disabling conditions.

  Potential Elements of the Performance:
  - Identify the role of the Registered Physiotherapist in the initial and ongoing assessment of a client's condition and the implementation and monitoring of a treatment plan
  - Identify the role of the Physiotherapist Assistant in assisting the Registered Physiotherapist to implement and monitor the treatment plan

## 3. Demonstrate advanced skills in the application 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 apply different types of exercise: passive, active, active assistive, resistive (isometric, isotonic, isokinetic, eccentric and concentric)
- 4. Demonstrate knowledge and skill in the implementation, maintenance and monitoring of therapeutic exercise programs in complex patient situations, as prescribed by and under the supervision of the 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 established by a Registered Physiotherapist
- Using a variety of equipment, implement and maintain a strengthening program established by a Registered Physiotherapist
- Demonstrate communication skills that help reinforce the Physiotherapists instructions (alternate ways of teaching the same exercise)
- Demonstrate skill in the operation, care and maintenance of equipment such as mobility aids, exercise equipment, assessment tools etc.

5. Demonstrate skill in observing and reporting any changes in clients' progress, to the Physiotherapist.

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 of and describe 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 skill in the design and implementation of therapeutic exercise, as prescribed by a Registered Physiotherapist, to individuals and groups.

Potential Elements of the Performance:

- Demonstrate competence in the design and implementation of exercise routines as prescribed by a Registered Physiotherapist
- Using a variety of equipment, design and implement a range of motion program established by a Registered Physiotherapist
- Using a variety of 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 skill 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
  - 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 Physiotherapists 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 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 Physiotherapists, adapt activities and handling for clients with specific conditions and for the elderly and very young

### 10. Demonstrate knowledge and skill in the measurement of joint range of motion.

#### Potential Elements of the Performance:

- Demonstrate competence in the measurement of joint range of motion using a variety of techniques (goniometry, tape measure etc)
- 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 of cardio-respiratory conditions and skill in 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 objective problem solving and decision making skills 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. Common Conditions (covered in Clinical Pathology I and II) as they relate to the learning outcomes listed above
- 2. The role of the PTA in the physiotherapy management of the conditions covered in Clinical Pathology II
- 3. Handling skills
- 4. Therapeutic Exercise for specific conditions
  Range of Motion
  Resistance Exercise
  Aerobic Exercise
  Stretching
- 5. Assistive ambulation
- 6. Transfers and Bed Mobility
- 7. Goniometry
- 8. Chest Physiotherapy
- 9. Observing and Reporting
- 10. Problem Solving and Decision Making

#### IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Kisner and Colby. (2002) <u>Therapeutic Exercise</u>. Foundations and <u>Techniques</u> (4<sup>th</sup> edition). F.A. Davis Company

Pierson, F.M. (2002). <u>Principles and Techniques of Patient Care.</u> (3<sup>rd</sup> edition). Saunders. (from 1<sup>st</sup> semester)

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

Frazier, M and Drzymkowski, J. (2000). <u>Essentials of Human Diseases and Conditions</u> (2<sup>nd</sup> ed.), W.B. Saunders Company

Garrison, S. (1995). <u>Handbook of Physical Medicine and Rehabilitation Basics</u>. Lippincott-Raven

#### V. EVALUATION PROCESS/GRADING SYSTEM:

- 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.
- 2. All tests/exams are the property of Sault College.
- Students missing any of the tests or exams because of illness or other serious reason must notify the professor <u>BEFORE</u> 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 per day for every school day late with the permission of an extension. This means that if you requested an extension for 5 school days (1 week), 5 percentage points will be deducted from the final grade.
- 6. Supplemental exams/assignments will be discussed by the professor.

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

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

#### VI. SPECIAL NOTES:

#### Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your instructor and/or the Special Needs office. Visit Room E1101 or call Extension 703 so that support services can be arranged for you.

#### 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.

#### Plagiarism:

Students should refer to the definition of "academic dishonesty" in *Student Rights and Responsibilities*. Students who engage in "academic dishonesty" will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. 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.

#### 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.

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

#### VII. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the professor. Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

#### **VIII. DIRECT CREDIT TRANSFERS:**

Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.