



# COURSE OUTLINE

## OPA109

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<b>Course Code: Title</b>	OPA109: PHYSICAL AGENTS
<b>Program Number: Name</b>	3022: OCCUP/PHYSIO/ASSIST
<b>Department:</b>	OTA/PTA ASSISTANT
<b>Semester/Term:</b>	18W
<b>Course Description:</b>	The purpose of this course is to provide the student with the opportunity to develop the ability required to safely and effectively apply therapeutic modalities used in physiotherapy and occupational therapy. The student will be expected to demonstrate competence in the areas of safety, patient and equipment set up and implementation of specific therapeutic modalities, as well as effective instruction, cuing and providing feedback of the client. The student will also be expected to demonstrate knowledge and accuracy regarding surface anatomy as it relates to the application of therapeutic modalities. The student will demonstrate the ability to perform aspects of documentation of the application of therapeutic modalities within the scope of the OTA and/or PTA.
<b>Total Credits:</b>	3
<b>Hours/Week:</b>	3
<b>Total Hours:</b>	45
<b>Prerequisites:</b>	OPA101, OPA103, OPA104, OPA116, OPA117, OPA118
<b>This course is a pre-requisite for:</b>	OPA203, OPA205
<b>Vocational Learning Outcomes (VLO's):</b>	<b>3022 - OCCUP/PHYSIO/ASSIST</b>
<b>Please refer to program web page for a complete listing of program outcomes where applicable.</b>	<p>#1. Communicate appropriately and effectively, through verbal, nonverbal, written and electronic means, with clients, their families, and significant others, occupational therapists, physiotherapists, other health care providers, and others within the role of the therapist assistant.</p> <p>#2. Participate in the effective functioning of interprofessional health care teams within the role of the therapist assistant.</p> <p>#3. Establish, develop, maintain, and bring closure to client-centred, therapeutic relationships within the role of the therapist assistant.</p> <p>#4. Ensure personal safety and contribute to the safety of others within the role of the therapist assistant.</p> <p>#5. Practice competently in a legal, ethical, and professional manner within the role of the</p>

therapist assistant.

#6. Document and complete client records in a thorough, objective, accurate, and nonjudgmental manner within the role of the therapist assistant.

#7. Develop and implement strategies to maintain, improve, and promote professional competence within the role of the therapist assistant.

#8. Perform effectively within the roles and responsibilities of the therapist assistant through the application of relevant knowledge of health sciences, psychosociological sciences, and health conditions.

#9. Perform functions common to both physiotherapy and occupational therapy practices that contribute to the development, implementation and modification of intervention/treatment plans, under the supervision of and in collaboration with the occupational therapist and/or physiotherapist.

#11. Enable the client's optimal physical function by contributing to the development, implementation, and modification of intervention/treatment plans, under the supervision of and in collaboration with the physiotherapist.

**Essential Employability Skills (EES):**

#1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.

#2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.

#6. Locate, select, organize, and document information using appropriate technology and information systems.

#7. Analyze, evaluate, and apply relevant information from a variety of sources.

#10. Manage the use of time and other resources to complete projects.

#11. Take responsibility for ones own actions, decisions, and consequences.

**Course Evaluation:**

Passing Grade: 60%, C

**Other Course Evaluation & Assessment Requirements:**

As partial fulfillment of the OTA & PTA diploma, Performance Based Evaluations require a minimum of 60% in each category of performance.

**Evaluation Process and Grading System:**

Evaluation Type	Evaluation Weight
Lab Demonstrations â€" Surface Anatomy	15%
Performance Based Evaluations â€" Physical Agents	30%
Quizzes	10%
Term Project(s)	10%
Written Tests	35%

**Books and Required Resources:**

Essentials of Human Anatomy and Physiology by Marieb, Elaine  
Publisher: Benjamin Cummings/Addison Wesley Longman, Inc Edition: 12th  
(from semester one)

**Course Outcomes and Learning Objectives:**

**Course Outcome 1.**

Demonstrate an understanding and application of cellular biology.

**Learning Objectives 1.**

â€" Identify basic cell structure and function including membrane transport mechanisms, electrical properties and cellular metabolism

â€" Identify the four categories of body tissues

â€" Identify the events of cellular injury and adaptations

- â€¢ Identify the common causes of inflammation and factors which influence recovery (physical and psychological)
- â€¢ List and describe the three phases of healing: inflammatory phase, proliferation phase, maturation phase

## **Course Outcome 2.**

Demonstrate an understanding of mechanisms and theories of pain.

## **Learning Objectives 2.**

- â€¢ Recognize common attributes of acute and chronic pain
- â€¢ Recognize the gate control theory of pain versus opiate mediated control of pain

## **Course Outcome 3.**

Demonstrate effective, professional patient preparation for the application of physical agents.

## **Learning Objectives 3.**

- â€¢ Identify with accuracy relevant bony and soft tissue landmarks on self and on another person
- â€¢ Demonstrate appropriate positioning and draping skills while identifying surface anatomy and applying therapeutic agents required to apply therapeutic agents.
- â€¢ Demonstrate the ability to verbally prepare a patient for a planned intervention that involves physical agents by explaining the purpose of the physical agent and gaining verbal consent

## **Course Outcome 4.**

Demonstrate an understanding of the roles/responsibilities of the OTA/PTA in the application of physical agents.

## **Learning Objectives 4.**

- â€¢ Demonstrate professional behaviour expected of an OTA/PTA while carrying out components of a treatment plan that includes the delivery of physical agents
- â€¢ Perform the roles/responsibilities of the OTA/PTA in the application of physical agents
- â€¢ Observe and recognize significant departures from the expected patterns of patient response to the physical agents and report immediately to the Registered Physiotherapist

## **Course Outcome 5.**

Demonstrate knowledge and skills related to body mechanics.

## **Learning Objectives 5.**

- â€¢ Perform proper body mechanics during the set up and application of physical agents

## **Course Outcome 6.**

Demonstrate an understanding of the effects, benefits and indications for a variety of physical agents.

### **Learning Objectives 6.**

- â€¢ Identify the role of physical agents in the physiotherapy management of motion restrictions and muscle tone
- â€¢ Identify the effects, benefits and indications for a variety of physical agents, including but not limited to: Thermal Agents â€ Ice Packs, Ice Massage, Hot Packs, Paraffin, Whirlpool, Contrast Baths
- â€¢ Ultrasound, Electrical Current â€ TENS, NMES, Interferential, Traction and Compression Bandaging

### **Course Outcome 7.**

Demonstrate knowledge of and describe the contraindications and precautions of various physical agents.

### **Learning Objectives 7.**

- â€¢ Identify the contraindications and precautions of a variety of physical agents, including but not limited to those listed above
- â€¢ Identify and implement common precautions (positioning, interfaces, monitoring during procedures, aseptic procedures)
- â€¢ Recognize an adverse reaction and react appropriately

### **Course Outcome 8.**

Demonstrate the skills required to competently apply various physical agents, as required by a supervising Physiotherapist or Occupational Therapist.

### **Learning Objectives 8.**

- â€¢ Safely and accurately carry out tasks related to the application of specific physical agents under the supervision of a Registered Physiotherapist or Occupational Therapist
- â€¢ Recognize liability issues and reimbursement issues that may arise with the application of these modalities

### **Course Outcome 9.**

Demonstrate competence in the setup, care and maintenance of equipment.

### **Learning Objectives 9.**

- â€¢ Correctly assemble/set up, prepare equipment, put away and clean for of each physical agent
- â€¢ Explain and demonstrate an understanding of the care and maintenance of equipment, including physical agents (also include preventative maintenance plan and follow-up)

## **Course Outcome 10.**

Demonstrate documentation skills required of the OTA/PTA related to the application of therapeutic modalities.

## **Learning Objectives 10.**

â€¢ Accurately document the application of all physical agents, making note of any significant departures from the expected patterns of patient response, and any actions taken, and report immediately to the Registered Physiotherapist/Occupational Therapist

## **Course Outcome 11.**

Demonstrate the ability to communicate to and reassure patients/clients the effects, benefits and indications/contraindications for various physical agents.

## **Learning Objectives 11.**

â€¢ Describe in lay terms the effects and benefits of the physical agents listed above.

â€¢ List and describe in lay terms the indications of the physical agents listed above

â€¢ Appropriately inquire (in lay terms) regarding contraindications of the physical agents listed above

â€¢ Reassure patients regarding any feelings of anxiety regarding the receipt of the physical agents listed above

**Date:**

Wednesday, January 24, 2018

Please refer to the course outline addendum on the Learning Management System for further information.