

# Common Course Outline

## OCTA 226

### Physical Dysfunction I

3 Semester Hours

## The Community College of Baltimore County

### Description

**OCTA 226-3 Credits-Physical Dysfunction I** instructs students in the theory and application of occupational therapy in the treatment of individuals with musculoskeletal, medical, orthopedic, and spinal cord injuries. Students learn treatment techniques, physical agent modalities, and splinting commonly used with these diagnostic groups. Students are introduced to the construction of low technology devices specific to patients with spinal cord injuries. Students develop a working understanding of medical terminology, abbreviations, and symbols used in medical documentation.

**3 credits: 2 lecture hours, 2 lab hours, and 24 hours Level I fieldwork**

**Pre-requisites: OCTA 201, OCTA 206 with a grade of “C” or higher**

### Overall Course Objectives

Upon completion of this course the student will be able to:

1. Identify various health care disciplines in rehabilitation;
2. Recognize the function of health and hospital agencies with whom the occupational therapy assistant would be employed;
3. List community and rehabilitation services specific for musculoskeletal, orthopedic, medical, and spinal cord injuries;
4. Identify the role and function of occupational therapy in accessing these services for a culturally diverse population;
5. Describe the function of occupational therapy in clinic settings where musculoskeletal, orthopedic and/or spinal cord injured patients are seen;
6. Observe and report patient behavior specific to musculoskeletal, orthopedic, medical, and spinal cord injuries;
7. Demonstrate appropriate reassessment and screening skills specific to musculoskeletal, orthopedic, medical, and spinal cord injuries;
8. Describe and demonstrate treatment techniques and the understanding of when these techniques need to be modified specific to musculoskeletal, orthopedic and spinal cord injuries;
9. Use appropriate medical terminology, abbreviations, and symbols when completing written documentation;

10. Employ safety and universal precautions during re-assessment and treatment for musculoskeletal, orthopedic, medical, and/or spinal cord injuries;
11. Demonstrate use of self as therapeutic agent during treatment process; and
12. Discuss and role play process of client/family training to simulate direct therapy program.

### **Major Topics**

- I. Medical Terminology
  - A. Word roots, combining forms, suffixes, prefixes
  - B. Medical abbreviations
  - C. Symbols
- II. Rehabilitation Concepts
  - A. Role of occupational therapy assistant (OTA), relationship to occupational therapist
  - B. Brief history of OTA in role of physical dysfunction
  - C. Practice Models (to include consultative)
  - D. Defining occupational therapy in physical dysfunction
- III. Health Procedures
  - A. Universal Precautions
  - B. Vital Signs
  - C. Medical Terminology
- IV. Broad Aspects of Treatment
  - A. Psychosocial Implications
  - B. Infection Control
  - C. Cultural Diversity
  - D. Sexuality
- V. Diagnoses: Biomechanical Applications
  - A. Hand Injuries
  - B. Orthopedics (fractures, Total Joint Replacement)
  - C. Arthritis
  - D. Spinal Cord Injury, Guillian Barre
  - E. Cardiac
  - F. Burns
  - G. Amputee
  - H. Oncology
  - I. Pulmonary
- VI. Screening and reassessment procedures
  - A. Sensorimotor
    1. reflexes, tone, coordination
    2. sensation, perception, cognition, vision

- B. Biomechanical
    - 1. range of motion
    - 2. strength
    - 3. coordination
  - C. Rehabilitative
    - 1. activities of daily living
    - 2. work
    - 3. leisure
  - D. Standardized/Non Standardized tools
    - 1. Functional Independence Measure
    - 2. Perdue Minnesota Rate of Manipulation
    - 3. Pinchometer
    - 4. Dynameter
    - 5. Goniometry
    - 6. 9-Hole Peg Test
- VII. Treatment
- A. Sensorimotor
    - 1. sensation and movement
    - 2. stimulation/ inhibition: neuromuscular
  - B. Biomechanical
    - 1. range of motion
    - 2. strength and endurance (exercise programs)
    - 3. coordination
  - C. Rehabilitative
    - 1. self maintenance: activities of daily living, home management, oral motor, driving,
    - 2. leisure
    - 3. technology: splinting, low technology devices, equipment, physical agent modalities
- VIII. Documentation
- A. Oral reporting
  - B. Written reports – progress notes using Subjective, Objective, Assessment, Plan format

### **Course Requirements**

**Grading/exams:** Grading procedures will be determined by the individual faculty member and will include the following:

- 1. Medical Terminology Quiz (2)
- 2. Diagnostic Related Information
- 3. Case Study (2)
- 4. Lab Quiz (2)
- 5. Fieldwork Journal
- 6. Fieldwork Evaluation

7. Treatment Plan
8. Midterm
9. Final
10. Lab Assignments
11. Class Participation

A fieldwork form has been developed for use on Level I fieldwork. It is completed by the clinical supervisor at the Level I fieldwork site.

Writing: Rubrics have been developed for the case study, treatment plan, and fieldwork journal.

### **Other Course Information**

This course is a required course in the Occupational Therapy Assistant program, which is part of the School of Health Professions. This course is the first course in a required two-course sequence.

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