

## Master Syllabus

### OTA 1202 - Functional Anatomy

**Division:** Health Sciences

**Department:** Rehabilitation Services

**Credit Hour Total:** 3.0                      **Lecture Hrs:** 3.0

**Other Prerequisite(s):** Restricted to Majors

**Date Revised:** April 2013

---

### Course Description:

Functional anatomy of neurological and musculoskeletal systems. Analysis of nervous systems, major joint and muscle groups involved in daily living tasks such as dressing, bathing, grooming, eating, cooking and housekeeping.

### General Education Outcomes:

- ▣ Critical Thinking/Problem Solving Competency
- ▣ Information Literacy Competency
- ▣ Written Communication Competency

### Course Outcomes:

#### Evaluation

Gather and share data for the purpose of screening and evaluation.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

The student will measure joint range of motion and muscle strength with a minimum of 79% during a practical examination.

#### Musculoskeletal components

Demonstrate the ability to identify the musculoskeletal components which support areas of occupation.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

The student will identify the musculoskeletal components needed for a selected movement with a minimum of 79% during a practical examination.

#### Movements

Demonstrate the ability to identify the muscles involved in movements which support areas of occupation.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

The student will identify the muscles needed for a selected movement with minimum score of 79% and a maximum of one verbal cue during a practical examination.

#### Biomechanics

Demonstrate the ability to identify basic biomechanical principles.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

The student will identify biomechanical principles with a minimum score of 79% on a written examination.

#### Nervous system

Demonstrate knowledge of the basic anatomy and physiology of the central and peripheral nervous systems.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

The student will identify the anatomy and/or physiology of selected CNS and PNS components with minimum of 79% on a written examination.

#### Activity analysis

Demonstrate the ability to identify the effects of a normally functioning CNS and PNS on areas of occupation.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

The student will identify the effects of a normally functioning CNS and PNS on areas of occupation with minimum of 79% on a written examination.

### Outline:

Anatomical directions  
Biomechanics of movement  
Skeletal system of the human body, including joints and ligament function  
Anatomy of central nervous system, peripheral nervous system  
Autonomic nervous system

Functional muscle groups

Areas of occupation associated with a normally functioning CNS and PNS

Areas of occupation associated with a normally functioning musculoskeletal system

Neurological and musculoskeletal activity analysis of functional activities

Correct terminology as related to the field of neurology and orthopedics

Manual muscle testing

Joint range of motion