

## **OTAP-130 FUNCTIONAL KINESIOLOGY IN OT 3 CREDITS**

### **SYLLABUS**

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#### **CATALOG DESCRIPTION**

Study of musculoskeletal and nervous systems and human movement as it relates to Occupational Therapy Assistants, including assessment procedures and intervention techniques.

Prerequisites: BIOL 112, OTAP 116, Acceptance into the OTA Program

Semester Offered: Fall

#### ***COMMON STUDENT LEARNING OUTCOMES***

*Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...*

##### **BROAD AND SPECIALIZED LEARNING**

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

##### **CRITICAL THINKING**

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

##### **CULTURAL AND CIVIC ENGAGEMENT**

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

##### **EFFECTIVE COMMUNICATION**

Students will exchange ideas and information with clarity in multiple contexts.

##### **INFORMATION LITERACY**

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

##### **INTEGRATING TECHNOLOGIES**

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

#### **COURSE LEARNING OUTCOMES**

*Upon successful completion of the course, the student will be able to...*

1. Analyze human motion related to functional outcomes
2. Identify normal and abnormal movement
3. Perform selected movement assessments and techniques
4. Relate components and functions of the nervous system to implications for OT

## SPECIFIC LEARNING OBJECTIVES

1. Analyze human motion related to functional outcomes
  - a. Analyze human motion in daily activities.
  - b. Demonstrate basic knowledge of the mechanics of human motion and the internal and external forces that affect motion.
  - c. Describe center of gravity with regards to stability versus mobility as it relates to human movement and positioning.
2. Identify normal and abnormal movement
  - a. Relate normal vs. impaired movement to its effect on daily activities
  - b. Discuss posture and its effect on health and disability
  - c. Describe ergonomics as it relates to occupational therapy
3. Perform selected movement assessments and techniques
  - a. Demonstrate the ability to palpate selected anatomical landmarks/prominences on a lab partner
  - b. Apply concepts related to muscle characteristics, length, and strength
  - c. Demonstrate the ability to estimate, calculate, and document joint range of motion of all upper extremity joints (B.1.7., B.4.2)
  - d. Describe how to evaluate strength of selected muscle groups (B.1.7., B.4.2)
  - e. Explain the rationale, indications, contraindications and basic principles associated with selected movement assessments (B.1.7., B.4.2)
4. Relate components and functions of the nervous system to implications for OT
  - a. Identify components and functions of central nervous system structures and relate to implications for OT treatment.
  - b. Identify components and functions of sensory systems and relate to implications for OT treatment.
  - c. Identify components and functions of the peripheral nervous system structures and relate to implications to OT treatment.

The numbers in parentheses following each objective correlate to the 2011 OTA educational standards established by the Accreditation Council for Occupational Therapy Education.