BAKER COLLEGE
STUDENT LEARNING OUTCOMES

OCC 5150 Functional Kinesiology
3 Semester Credit Hours

Student Learning Outcomes and Enabling Objectives

1. Explain joint design and function to assist the occupational therapist in understanding motor performance and the relationship to occupational performance.
    a. Identify the principles of forces & levers within the body
    b. Identify the design and function of the articular system to include osteokinematics and arthrokinematics

2. Distinguish between types of muscles and their accessory structures and their function in the performance of occupational performance
    a. Identify the biomechanics of ligaments and tendons
    b. Identify the biomechanics of skeletal, cardiac, & smooth muscle
    c. Identify the function of muscles including contractions and types of movements

3. Identify the importance of core stability and occupational performance
    a. Describe the biomechanics of the shoulder girdle complex and its role in occupational performance
    b. Describe the biomechanics of the spine, pelvic girdle & hip motions in maintaining postural alignment, control and contributing to functional mobility
    c. Implement the biomechanics of the trunk and extremities into the functional mobility in upright posture, sit to stand, & transfers

4. Analyze the movement analysis of occupations the role of motor performance of the body during the performance of BADL's and IADL's
    a. Illustrate the biomechanics of upper and lower extremity movement in the completion of occupations associated with BADL's & IADL's
    b. Illustrate the components of the trunk in the completion of occupations associated with BADL's & IADL's

Big Ideas and Essential Questions

Big Ideas

- Biomechanical properties
- Joint structure & movements
- Musculoskeletal system
- Core stability/ postural components
- Functional Mobility

Essential Questions

1. What roles do joints, muscles and their accessory structures play in movement of the body?
2. How can biomechanical principles be utilized to improve occupational performance during BADL's & IADL's?
3. How does posture affect the structure and function of the musculoskeletal system?
4. How do bones, muscles, and joints work together to enable functional mobility and the performance of occupations?
5. How does understanding the components of human movement improve the safety of both the individual and therapist?

These SLOs are not approved for experiential credit.

Effective: Fall 2023