



OTA 125: Movement in Human Performance

In this course, students incorporate their knowledge of anatomy and physiology to study muscle groups and their function relative to performing various activities. Clinical application of kinesiology and biomechanics to purposeful activity is explored. Students learn therapeutic applications of activity across the occupational performance areas. Fundamentals of the activity analysis process are emphasized. Prevention, health maintenance, and safety programs are integrated into the course. Students develop competencies in analysis and intervention related to range of motion, muscle testing, orthotics, and prosthetics in the lab. Prerequisite: OTA 111 and OTA 117 and BIO 234. Two lecture hours and two laboratory hours per week. Instructional Support Fee applies.

Course Student Learning Outcomes

1. Describe general principles of kinesiology. 2. Describe the biomechanical frame of reference. 3. Utilizing correct terminology, describe and demonstrate ROM of the UE and LE. 4. Articulate importance of accurate/objective measurements of ROM/MMT to facilitate appropriate selection of activities and occupations in intervention planning. 5. Demonstrate ability to document assessment results adhering to applicable standards. 6. Describe the collaborative roles of the OTR and the COTA in the evaluation and intervention planning processes for clients. 7. Analyze occupational performance for joint movements and muscle actions. 8. Articulate the role of occupation in the promotion of health and wellness and the prevention of disease/disability for individuals, families, and society in the areas of body mechanics, body awareness, and ergonomics. 9. Describe various components of prevention, health maintenance in areas of body mechanics and ergonomics. 10. Identify anatomical and biomechanical considerations in UE splinting. 11. Describe the use of orthotics to enhance occupational performance. 12. Properly fabricate two UE custom orthotics and, utilizing a splint check out, objectively assess the outcome. 13. Identify various properties of splinting materials and appropriate use. 14. Demonstrate appropriate documentation for fabrication of orthosis, including pt education (wear/care schedule, purpose of the orthosis, goals of splinting, (etc.)). 15. Demonstrate clear, thorough communication skills, both oral and written, in all assignments and role playing situations. 16. Utilize word processing programs for completion of all written assignments. 17. Utilize a variety of scholarly resources (i.e. textbooks and professional journals) as well as various internet search engines to complete assignments/projects.

Credits: 3

Program: Occupational Therapy