

University of Dayton
Department of Health and Sport Science
Doctor of Physical Therapy Program

DPT 954 Elective Clinical
Preparedness Competencies

Preparedness Competencies

Didactic preparation for clinical rotations progressively readies UD DPT students to meet affective, cognitive, and psychomotor objectives, while equipping students with growing technical competence in the performance of standard and specific physical therapy tests, measures, and interventions. At this level of their education, students are expected to be able to build on the competencies & objectives from their General Medicine, Neurology, and Orthopedic clinicals, as well as demonstrate competence in the following tests, measures, and interventions:

- Interpretation of oxygen consumption and analysis of electrocardiogram
- Measurement of body fat composition
- Assessment of edema (palpation, girth, volumetrics)
- Assessment of functional capacity
- Assessment of response to manual provocation tests
- Analysis of myoelectric activity using EMG, nerve conduction, etc.
- Electrotherapeutic modalities including biofeedback
- Dynamometry
- Orthotic devices including analysis of need, effects and benefits, alignment and fit, safety and proper care and use
- Prosthetic devices including analysis of need, effects and benefits, alignment and fit, safety, proper care and use and assessment of residual limb
- Muscle length testing
- Reflex integrity including normal and pathological reflexes
- Ventilation assessment including cough and sputum and ability to clear airway
- Airway clearance techniques including assistive devices (e.g. flutter valve), Autogenic drainage, chest percussion, vibration, shaking and pulmonary postural drainage and positioning
- Functional training for environmental adaptation (job, school, play), job coaching, and functional training programs
- Orthotic and protective devices including taping, splints, braces, shoes, casts, and helmets
- Prosthetic device or equipment training