

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number: PTAS 202 Department: Physical Therapist Assistant

Course Title: Fund. Of Measurement Skills Semester: Spring Year: 2002

Objectives/Competencies

Course Objective	Competencies
1. His/her role as an educator	1. Provide education of a variety of learners. 2. Implement and modify an educational program based on learner needs.
2. Basic principles of pedagogy and andragogy	1. Apply the concept of transfer of knowledge.
3. Standard technique for Manual Muscle Testing (MMT) and its applications	1. Explain the history of Manual Muscle Testing. 2. Follow standard procedures and apply MMT techniques to major muscles and muscle groups in the human body. 3. Demonstrate coordinated actions in applying this skill. 4. Palpate muscle contractions in appropriate locations. 5. Apply appropriate manual resistance. 6. Record results accurately on standard MMT forms.
4. Hand-held dynamometry (HHD)	1. Discuss the positive aspects and limitations of HHD. 2. Discuss the clinical utility of HHD. 3. Apply an HHD in the measurement of strength in the laboratory.

Course Objective	Competencies
5. Goniometry	<ol style="list-style-type: none"> 1. Identify parameters of the measurement technique of the American Academy of Orthopedic Surgeons. 2. Identify components of the standard goniometer. 3. Demonstrate proper use of the goniometer. 4. Consistently use stationary and moving arms correctly. 5. Measure accurately and quickly. 6. Satisfactorily perform various tests for muscle and joint range of motion. 7. Apply goniometry technique to joint areas correctly and in various positions. 8. Explain reasons for stabilizations during range of motion exercises or tests.
6. Inclinerometers	<ol style="list-style-type: none"> 1. Describe the function of the standard inclinometer. 2. Utilize the inclinometer correctly in measuring range of motion in the vertebral column.