

# Minnesota State University Moorhead

## AT 322: Orthopedic Clinical Assessment: Lower Extremity

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course is an in-depth study of orthopedic clinical assessment techniques involving the musculoskeletal and neurovascular structures of the lower extremity. Content includes the application of theoretical concepts with practical experience in assessment. To be taken concurrently with AT 322L. Admission into the ATEP.

**B. COURSE EFFECTIVE DATES:** 08/25/2008 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. Students will assess neurological status.
2. Students will know and be able to use appropriately standard nomenclature of injuries and illnesses.
3. Students will select, apply, evaluate, and modify appropriate standard protective equipment and other custom devices for the patient in order to prevent and/or minimize the risk of injury to the head, torso, spine, and extremities for safe participation on sport and/or physical activity. Effective lines of communication shall be established to elicit and convey information about the patients situation and the importance of protective devices to prevent and/or minimize injury.
4. Students will demonstrate the ability to develop, implement, and communicate effective policies and procedures to allow safe and efficient physical activity in a variety of environmental conditions.
5. Students will demonstrate a musculoskeletal assessment of upper extremity, lower extremity, head/face, and spine (including the ribs) for the purpose of identifying (a) common acquired or congenital risk factor that would predispose the patient to injury and (b) a musculoskeletal injury.
6. Students will describe and identify postural deformities.
7. Students will describe common techniques and procedures for evaluating common injuries.
8. Students will describe strength assessment using resistive range of motion, break tests, and manual muscle testing.
9. Students will describe the etiology, pathogenesis, pathomechanics, signs, symptoms, and epidemiology of common orthopedic injuries, illnesses and diseases to the body's systems.
10. Students will describe the nature of diagnostic tests of the neurological function of nerves.
11. Students will describe the use of diagnostic tests and imaging techniques based on their applicability in the assessment of an injury when prescribed by a physician.
12. Students will explain the relationship of injury assessment to the systematic observation of the person as a whole.
13. Students will explain the roles of special tests and postural exam in injury assessment.

**E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted