

## Master Syllabus

### PTA 1116 - Anatomy & Kinesiology

**Division:** Health Sciences

**Department:** Rehabilitation Services

**Credit Hour Total:** 5.0

**Lecture Hrs:** 1.0 **Lab Hrs:** 8.0

**Prerequisite(s):** BIO 1121 OR BIO 1141

**Other Prerequisite(s):** AND Restricted to Majors , AND Other Admission to Program

**Date Revised:** May 2014

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### Course Description:

Human anatomy and clinical kinesiology with emphasis on integration of neuromusculoskeletal anatomy, physiology, physics principles and geometry in relationship to human movement. One classroom, eight lab hours per week.

### General Education Outcomes:

- Oral Communication Competency
- Critical Thinking/Problem Solving Competency
- Computer Literacy Competency
- Information Literacy Competency

### Course Outcomes:

#### Description, function and location of anatomical architecture

Describe the architecture, function, and location of structures within the musculoskeletal and neurovascular systems, and their relationship to other anatomical structures.

**Assessment Method:** Focus groups

**Performance Criteria:** Discussion forum groups (77% or better)

**Assessment Method:** Locally developed exams

**Performance Criteria:** Online or in-class quizzes and exams (77% or better)

**Assessment Method:** Oral examination

**Performance Criteria:** Lab practical (77% or better)

**Assessment Method:** Simulations

**Performance Criteria:** Complete 100% of lab activities / workbook

#### Joint and muscle synergy for functional tasks

Determine synergistic muscle patterns required for performance of functional tasks.

**Assessment Method:** Focus groups

**Performance Criteria:** 100% participation in discussion forum group

**Assessment Method:** Locally developed exams

**Performance Criteria:** Online or in-class quizzes and exams (77% or better)

**Assessment Method:** Oral examination

**Performance Criteria:** Lab practical (77% or better)

**Assessment Method:** Simulations

**Performance Criteria:** 100% completion of lab activities

#### Locate and palpate anatomical structures

Accurately locate and palpate muscular, tendinous, and bony landmarks on anatomical models and on the human body.

**Assessment Method:** Oral examination

**Performance Criteria:** Lab practicals (77% or better)

**Assessment Method:** Simulations

**Performance Criteria:** Complete 100% of lab activities / workbook

#### Knowledge of biomechanics

Identify the relationship between physical laws and biomechanical principles of human motion.

**Assessment Method:** Focus groups

**Performance Criteria:** Discussion forum groups (77% or better)

**Assessment Method:** Locally developed exams

**Performance Criteria:** Online or in-class quizzes and exams (77% or better)

**Assessment Method:** Simulations

**Performance Criteria:** Complete 100% of lab activities / workbook

#### Basic computer skills

Demonstrate computer literacy skills: post discussions, chat, comfortably move through a Website, open files, and take online exams.

**Assessment Method:** Behavioral observations

**Performance Criteria:** 100% completion of computer-based materials

**Assessment Method:** Focus groups  
**Performance Criteria:** 100% participation in discussion forum group

**Assessment Method:** Locally developed exams  
**Performance Criteria:** Online or in-class quizzes and exams (77% or better)

#### **Use of terminology**

Define and correctly utilize terminology related to body position and human movement with written and oral communication.

**Assessment Method:** Focus groups  
**Performance Criteria:** 100% completion of discussion forum group

**Assessment Method:** Locally developed exams  
**Performance Criteria:** Online or in-class quizzes and exams (77% or better)

**Assessment Method:** Oral examination  
**Performance Criteria:** Lab practicals (77% or better)

**Assessment Method:** Simulations  
**Performance Criteria:** 100% Completion Lab activities / workbook

#### **Professional verbal communication**

Communicate with instructors and peers in one-on-one and group situations, in an effective and professional manner.

**Assessment Method:** Focus groups  
**Performance Criteria:** 100% participation in discussion forum group

**Assessment Method:** Oral examination  
**Performance Criteria:** Lab practical (77% or better)

#### **Reliance of musculoskeletal system on all organ systems**

Explain how the musculoskeletal system is reliant on the function of all other organ systems.

**Assessment Method:** Focus groups  
**Performance Criteria:** Discussion forum groups (77% or better)

**Assessment Method:** Locally developed exams  
**Performance Criteria:** Online and in-class quizzes and exams (77% or better)

#### **Outline:**

Anatomy & kinesiology terms  
Organs & tissues of the body  
Skeletal system  
Articular system  
Muscular system  
Biomechanical principles related to human movement  
Nervous system  
Upper extremity anatomy & kinesiology  
Lower extremity anatomy & kinesiology  
Anatomy & kinesiology of the head, neck & trunk