Sinclair Community College
444 E. Third St.
Dayton, OH 45402

Master Syllabus

PTA 1116 - Anatomy & Kinesiology

Division: Health Sciences

Department: Rehabilitative 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

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
- Critical Thinking/Problem Solving
- Computer Literacy
- Information Literacy

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 or 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