MASTER SYLLABUS

COURSE NO., HOURS, AND TITLE: PTH 207, 3 credit hours, Human Neuromusculoskeletal Anatomy

COURSE DESCRIPTION:
Students will be able to describe and identify the structure, function, and integration of the component parts of the skeletal, muscular, and nervous systems of the human body.

PREREQUISITES TO: 210A, 210B, 321A, 321B, and 322

COURSE OBJECTIVES:

Upon successful completion of the course, the student shall be able to demonstrate the following knowledge as measured by written examination.

1. Identify the structure, function, and integration of the neuromuscular systems.
2. Identify the bones of the human body and their landmarks.
3. Identify muscle insertions and origins.
4. Identify major muscles of the human body.
5. Describe the fundamental movements of the joints of the human body and the muscles that create the movement.
6. Identify the ligaments of the human body.
7. Identify major peripheral nerves and blood vessels of the human body.
8. Identify the structure and describe the function of the nervous system components and how each are related.
9. Identify anatomical structures and landmarks on the human body with surface anatomy.
10. Identify and describe functional movement at each joint and how it relates to overall human movement.
11. Describe and discuss basic abnormal human movement.

TOPICAL OUTLINE

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<th>Topics</th>
<th>Percentage of time</th>
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I. INTRODUCTION 5%

II. GENERAL ANATOMY AND PHYSIOLOGY 5%

III. BASIC MANUAL MUSCLE TESTING 5%

IV. SURFACE ANATOMY AND PALPATION 10%

V. UPPER EXTREMITY ANATOMY AND MOVEMENT 25%
   a. Shoulder
   b. Elbow
   c. Wrist
   d. Forearm
   e. Hand

VI. SPINE 25%
   a. Head
   b. Neck
   c. Thoracic
   d. Lumbar
   e. Sacrum/Ilium

VII. LOWER EXTREMITY ANATOMY AND MOVEMENT 25%
   a. Hip
   b. Knee
   c. Ankle
   d. Foot

TEXTBOOKS:

Required
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