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Fall 9-1-2001

### PT 464.01: Applied Clinical Anatomy and Kinesiology

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**PT 464 - APPLIED CLINICAL ANATOMY AND KINESIOLOGY**  
(Fall Semester, 2001)

- I. **Credits:** 4 Credits, Clock Hours = 56
- II. **Class Meets:** MF - 10:10-11:00, CP 204  
W - 10:10-12:00, CP 204
- III. **Professor:** Rich Gajdosik, Office SB 103  
Phone: (W) 243-5183/4753  
(H) 251-0266
- IV. **Course Description:** Anatomy and kinesiology of the neuromusculoskeletal system in relation to movement, function and clinical correlates.
- V. **Required Textbooks:**
- Moore KL: Clinically Oriented Anatomy, 3rd Ed., Williams and Wilkins, Baltimore, MD, 1992
- Smith LK, Weiss EL, Lehmkuhl LD: Brunnstrom's Clinical Kinesiology, 5th Ed., F. A. Davis Company, Philadelphia, PA, 1996 (Optional: must be ordered)
- Dorland's Illustrated Medical Dictionary (Curricular Text)
- VI. **Course Requirements, Examinations and Grading Procedures:**
- 1) Midterm Written Exam - 100 Points
- 2) Final Written Exam - 200 Points
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- 300 Points Total
- Grades will be based on the total percentage of points:
- 90-100% = A  
80- 89% = B  
70- 79% = C    The passing level is  $\geq$  70% on each test.
- VII. **Teaching methods and learning experiences:** Lectures and demonstrations with the use of slide projections, overhead projections and models, and the use of films, quizzes, tests, questions and answers, and independent study (primary method of learning).

**VII. Course Schedule:** Readings from KL Moore (4<sup>th</sup> Ed)

Orientation to PT 464 and PT 465

Skeletal Muscle Anatomy and Physiology; Towards the understanding of the Interaction of Mechanical and Physiological phenomena. (Background reading pp 1-58)

Spinal Column and Musculature (pp 432-499)

Vertebral Canal and Contents (pp 432-499 cont.)

Thoracic Cage and Pectoral Region, The Anterior Abdominal Wall (pp 62-94, 175-208)

Axilla, Shoulder Girdle, Shoulder Muscles, Associated Nerves (pp 665-720)

Flexor and Extensor Compartments of Arm, Shoulder Joint, Flexor Surface of Forearm and Hand (pp 720-741, 781-815)

Palm, Extensor Surface of Forearm and Hand: Joints of Elbow, Wrist, Hand (pp 741-781, 781-815 cont.)

MIDTERM EXAM: Scheduled about here

Pelvis Osteology and Applied Clinical Anatomy: Anterior, Lateral, and Medial Aspects of Thigh (pp 504-549)

Gluteal Region, Hip, Posterior Thigh, Popliteal Fossa, Posterior Compartment of Leg and the Knee Joint (pp 549-593)

Anterior and Lateral Compartment of Leg, Dorsal Surface of Foot, Plantar Surface of Foot, Ankle Joint (pp 449-593 cont., 593-649)

Head & Neck Anatomy [External Cranium & Cranial Vault, Scalp, Facial Muscles, Gross Brain Structures, Basic Blood Supply, Cranial Nerves from the peripheral perspective] (pp 832-1109, relative to content of lectures)

FINAL EXAM: As Scheduled by The University, Wed, Dec 19<sup>th</sup> , 8-10 AM