



### **DPT 8571: Physical Therapy Diagnostics - 3 Credit Hours**

This course reviews the principles of diagnosis and patient classification to guide physical therapy care. The patient classification scheme outlined in The Guide to Physical Therapist Practice patterns is presented as an example of diagnoses made by physical therapists. The course will also cover diagnostic decision-making, including measurement properties of various test and measures, in the following systems: musculoskeletal, neuromusculoskeletal, and cardiopulmonary.

**The required texts for this course are:**

- APTA, Guide to Physical Therapist Practice, 2nd Ed, American Physical Therapy Association, Alexandria, VA, 2001.

### **DPT 8573: Diagnostic Imaging/Pharmacology - 3 Credit Hours**

The first part of this 2-part course focuses on a basic understanding, interpretation, and application of data derived from a variety of imaging techniques. Specific emphasis will be placed on the usefulness of this data in the establishment of a differential diagnosis, prognosis, and intervention for patients with musculoskeletal, cardiopulmonary, and neurological conditions. The second portion of the course serves as a basic introduction to Pharmacology as it relates to the practice of Physical Therapy. Pharmacokinetics, indications and contraindications of various drugs are presented relative to their effect on diagnosis, prognosis, and interventions in Physical Therapy.

**The required texts for this course are:**

- Erkonen W.E. and Smith W.L. Radiology 101: The Basics and Fundamentals of Imaging. 2<sup>nd</sup> Ed. Lippincott Williams & Wilkins, Philadelphia, 2005. ISBN# 0-7817-5198-5.
- Ciccone, C.D. Pharmacology in Rehabilitation. FA. Davis, Philadelphia, Fourth edition 2007. ISBN-13: 978-0-8036-1377-5; ISBN-10: 0-8036-1377-6.

### **PT 8574: Ethics - 3 Credit Hours**

This course is an overview of deontological and teleological ethics. Focus is on identifying and analyzing ethical dilemmas in the practice of physical therapy. Coursework includes application of the APTA Code of Ethics and Guide for Professional Conduct, as well as duties, rights and character traits applied to solving ethical dilemmas. This course will include aspects of constitutional state, federal and case law as they apply to physical therapy.

**The required texts for this course are:**

- Gabard, DL, Martin, MW. Physical Therapy Ethics. F. A Davis, Philadelphia, 2003. ISBN 08036-1046.

### **PT 8575: Motor Control and Human Movement - 3 Credit Hours**

The course will include and integrate the theory and basic principles of motor behavior, motor development, motor control and motor learning as they relate to human motor performance across the lifespan. The course will also cover both neural and biomechanical aspects of movement. Examples will include both typical and atypical behavior based on impairments.

**The required texts for this course are:**

- Schmidt, R, Lee, T. Motor Control and Learning-A Behavioral Emphasis, 4<sup>th</sup> Ed., Human Kinetics. Champaign, IL. ISBN 0-7360-4258-x.

### **PT 8576: Clinical Decision Making - 3 Credit Hours**

This course presents frameworks for clinical reasoning and decision-making including the disablement model and patient care management model, as presented in The Guide to Physical Therapist Practice. The Guide contains a review of the cognitive processes of decision-making and presents the fundamentals of evidence-based practice, including development of clinically relevant questions, searching and applying the literature, and building clinical data bases to provide evidence. The Guide also includes introductory concepts of outcomes measurement and epidemiology.

#### **The required texts for this course are:**

- APTA, Guide to Physical Therapist Practice, 2nd Ed, American Physical Therapy Association, Alexandria, VA, 2001.
- Coulehan, JL, Block ~ The Medical Interview, 4th Ed, Philadelphia, FA Davis, 2001.
- Sackett DL, Richardson WS, Rosenberg W, Haynes RB, Evidence-based Medicine, 2nd Ed, Churchill Livingstone, 2000.
- Strauss, SE, Richardson WS, Glasziou, P, Haynes RB, Evidence-Based Medicine, 2nd Ed, Churchill Livingstone, 2005.

### **PT 8577: Health Care Systems - 3 Credit Hours**

Introduction to the American health care system, using a model that identifies four major components to the system: Resources, Delivery Systems, the Planning/Regulatory Infrastructure, and Consumers. Although all 4 components will be addressed less emphasis will be placed on Consumers as this area has been covered in other behavioral science courses. This course will emphasize the interconnections between the various segments of the system, as well as will address the role of physical therapy as a professional and physical therapists as professionals in this system.

#### **The required texts for this course are:**

- Barlett DL and Steele JB. Critical Condition: How Health Care in America Became Big Business and Bad Medicine. Doubleday. 2004.
- Kissick WL. Medicine's Dilemmas: Infinite Needs Versus Finite Resources. New Haven CN. Yale University Press. 1994.

### **PT 8578: Outcomes Measurement & Epidemiology - 3 Credit Hours**

This course will have a focus on outcome measurement of impairments, functional limitations, disability, quality of life, and satisfaction. Principles of measurement are applied to various tests and measures and include epidemiological principles used in understanding population-based health care and in predicting the utility of tests and measures and interventions.

#### **The required texts for this course are:**

- McDowell I, Newell C, Measuring Health: A Guide to Rating Scales and Questionnaires, 2nd ed, 1996, Oxford Press, Oxford.
- APTA, Guide to Physical Therapist Practice, 2nd Ed, American Physical Therapy Association, Alexandria, VA, 2001.

### **PT 8579: Teaching and Learning - 3 Credit Hours**

One part of this course includes principles and practices of teaching and learning applied to patient/family/community health care. Course materials will require the student to apply evidence on the techniques and use of patient education as a primary tool for physical therapy intervention. Another part of this course is related to Clinical Instructor training.

#### **The required texts for this course are:**

- Shepard, KF, Jensen, GM. Handbook of Teaching for Physical Therapists, 2nd Ed. Butterworth Heinemann, 2002. ISBN 0-7506-7309-5.