COURSE INFORMATION FORM

DISCIPLINE  
Physical Therapist Assistant

COURSE TITLE  
Physical Therapy Fundamentals II

CR.HR  4  LECT HR.  2.5  LAB HR.  3  CLIN/INTERN HR.  CLOCK HR.  

CATALOG DESCRIPTION
Introduction to the theory and practical application of documentation, patient care skills, and selected modalities, including indications and contraindications.

PREREQUISITES
HLSC 108 or BIOL 109 or BIOL 110 and BIOL 210 with a grade of C or higher, PTHA 152 with a grade of C or higher, PTHA 160 with a grade of C or higher

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:
1. Compare and contrast the scientific basics for all treatments covered in class, including indications, contraindications, and scope of PTA practice, including but not limited to traction, biofeedback and electrotherapy.
2. Correctly and safely instruct and apply all treatments covered in class, demonstrating competence in administering those treatments that are subject to competency check.
3. Monitor a patient’s response to the treatments covered in class to adjust treatment within the plan of care and accurately document patient progress.
4. Recognize when patient response to treatment would require re-evaluation to the physical therapist.
5. Describe cultural differences among classmates and relate to how differences can impact effective communication in the clinic.

GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

Outcomes  ESO
PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

1. Communicates effectively (2, 5)
2. Demonstrates professional behaviors consistent with the physical therapy profession (5)
3. Competently implements the physical therapy plan of care (1,2,3,4)

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes may be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Written Examinations and quizzes (1,3,4,5)
2. Assignments (3,5)
3. Competency checks or practical examinations (2,3,4)
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Implementation of the Physical Therapy Plan of Care
   A. Medical chart review
   B. Pharmacology and utilization of Physicians' Desk Reference
   C. Cultural diversity and ethnic autobiography
   D. Patient interviewing skills
   E. Written documentation

II. EMG Biofeedback

III. Spinal Traction
   A. Types of spinal traction
   B. Indications/contraindications
   C. Application of mechanical cervical traction (competency check)
      1. Head harness
         a. Halter
         b. Saunders' unit
      2. Treatment parameter settings
   D. Application of mechanical lumbar traction (competency check)
      1. Supine versus prone position
      2. Thoracic and lumbar harnesses
      3. Treatment parameter settings

IV. Electrotherapy
   A. Principles of electricity
      1. Definitions
      2. Ohm's Law
      3. Strength duration curve
      4. Electrodes
         a. Types
         b. Placement techniques - unipolar vs. bipolar
         c. Current density
      5. Indications/contraindications for electrotherapy
   B. Transcutaneous electrical nerve stimulation
      1. Pain theories
      2. Types of pain/behaviors associated with chronic pain
      3. Pain measurement
      4. Application of conventional TENS (competency check)
      5. Application of low frequency TENS (competency check) and trigger/acupuncture points
   C. Neuromuscular electric stimulation
      1. Innervated vs. denervated muscle
      2. Application of NMS (competency check) and motor points
D. Iontophoresis
   1. Common drug used
   2. Application of iontophoresis

E. High volt pulsed current
   1. Indications appropriate for unit
   2. Electrode placement techniques
      a. Monopolar
      b. Bipolar
   3. Application of HVPC (competency check)

F. Interfential unit
   1. Indications appropriate for unit
      a. Interferential current
         i. Beat frequency
         ii. Vector scan
         iii. Electrode placement
      b. Russian stimulation
   2. Application of interferential unit (competency check)