

NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY PTH 225 - REHABILITATION PROCEDURES (5 CR.)

Course Description

Focuses on treatment techniques typical of long term rehabilitation, e.g., the rehabilitation of congenital, neurological and disfigurement associated with chronic injury and disease. Lecture 3 hours. Laboratory 4 hours. Total 7 hours per week. 5 credits

General Course Purpose

Rehabilitation Procedures is designed to provide a basic knowledge, understanding and application of treatment strategies utilized in rehabilitation populations. Neurorehabilitation is emphasized. The course consists of coordinated lectures and laboratory practice in techniques commonly utilized in rehabilitation. Significant effort is directed toward obtaining opportunities for clinical observations and experiences to acquire and practice learned techniques. Therapeutic programs are explored for patients with specific disabilities such as brain and spinal cord injuries, peripheral nerve injuries, orthopedic and soft tissue problems and degenerative disorders. Principles of growth and development and facilitation techniques are emphasized.

Course Prerequisites/Corequisites

Prerequisites: PTH 105, PTH 121, PTH 151, PTH 115, PTH 122, PTH 131.

Course Objectives

Upon completion of this course, the student should be able to:

- Identify varied structures of the nervous system, i.e., peripheral and central nervous system
- Diagram sensory and motor tracts in the central nervous system
- Explain the hierarchy of the nervous system
- Explain the muscle spindle and its relation to control of postural muscle tone
- Identify the twelve cranial nerves by name and function
- Identify various components of normal growth and development
- Select and apply various facilitation techniques appropriate to an identified pathology and description of dysfunction
- Identify architectural barriers for the disabled and instruct client and family how to modify home environment
- Describe the management of patients with spinal cord injuries, amputations, cerebral vascular accidents and other neurological/rehabilitation diagnoses
- Identify basic classifications and describe the purpose for varied orthoses and prosthetics components, including wheelchairs
- Instruct a client in proper management of appliances, e.g., orthoses, prosthetics, etc.

Major Topics to be Included

- Neuroanatomy and neurophysiology
- Neural control
- Normal movement
- Growth and development, e.g., motor development from infancy through the elderly
- Rehabilitation techniques
- Orthotics/prosthetics
- Activities of Daily Living
- Adaptive devices and equipment
- Facilitation techniques: Brunnstrom, Rood, PNF, NDT, etc.