



Purpose: It is the intention of this Administrative-Master Syllabus to provide a general description of the course, outline the required elements of the course and to lay the foundation for course assessment for the improvement of student learning, as specified by the faculty of Wharton County Junior College, regardless of who teaches the course, the timeframe by which it is instructed, or the instructional method by which the course is delivered. It is not intended to restrict the manner by which an individual faculty member teaches the course but to be an administrative tool to aid in the improvement of instruction.

Course Title – Neurology

Course Prefix and Number – PTHA 2205

Department – Physical Therapist Assistant Program

Division – Allied Health

Course Type: (check one)

- Academic General Education Course (from ACGM – but not in WCJC Core)
 Academic WCJC Core Course
 WECM course (This course is a Special Topics or Unique Needs Course: Y or N)

Semester Credit Hours # : Lecture hours# : Lab/other hours #: 2:2:0

Equated Pay hours for course: 2

Course Catalog Description -

Study of neuroanatomy and neurophysiology as it relates to commonly encountered neurological conditions.

Prerequisites/Co requisites -

PTHA 1531, PTHA 2201, and PTHA 2409. [Offered summer 1 session to first year PTA students.] Type: Tech

List Lab/ Other Hours
Lab Hours 0
Clinical Hours 0
Practicum Hours 0
Other (list) 0

Approvals – the contents of this document have been reviewed and are found to be accurate.

Prepared by: Phil Carter	Signature 	Date 6-22-2010
Department Head: Phil Carter	Signature	Date
Division Chair: Carol Derkowski	Signature 	Date 6-22-10
Vice President of Instruction or Dean of Vocational Instruction: Leigh Ann Collins	Signature 	Date 7-2-10



I. Topical Outline – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical or other non-lecture instruction):

- I. Course Introduction
 - A. Basic nervous system components
 - B. Macroscopic neuroanatomy
 - C. Microscopic neuroanatomy
 - D. Peripheral nervous system
- II. Disorders of the Peripheral Nervous System
 - A. Disorders of the motor unit
 - B. Disorders of the muscle (myopathies)
 - C. Disorders of the neuromuscular junction (myesthenia gravis)
 - D. Disorders of the peripheral nerve (axonopathies)
- III. Disorders of the Anterior Horn Cell (neuronopathy)
 - A. Amyotrophic lateral sclerosis
 - B. Spinal muscular atrophy
 - C. Poliomyelitis, herpes zoster, and rabies
- IV. Peripheral polyneuropathy
 - A. Diabetic and alcoholic polyneuropathy
 - B. Guillain-Barre syndrome
 - C. Autonomic dysfunction (RSD, Raynaud's disease)
- V. Disorders of Central Motor Control
 - A. Cerebrovascular accident
 - B. Traumatic brain injury
 - C. Disorders of basal ganglia (Parkinson's disease, Huntington's disease, Tourette's syndrome, Hemiballismus, and Dystonia)
 - D. Disorders of the cerebellum (Friedreich's Ataxia)
 - E. Disorders of central nervous system myelin (Multiple Sclerosis)
- VI. Developmental Disorders of the Central Nervous System
 - A. CSF production
 - B. Anencephaly
 - C. Meningocele
 - D. Myelomeningocele
 - E. Spina bifida occulta
 - F. Hydrocephalus

II. Course Learning Outcomes

Course Learning Outcome	Method of Assessment
Identify and describe the functions of the neuroanatomical structures; correlate lesions with clinical signs and symptoms; and describe the pathogenesis and prognosis of neurological disorders commonly treated in physical therapy.	Unit exams Comprehensive course final exam Daily pop-quizzes Professionalism grade

III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by Student.

Gertz, S.D. Liebman’s Neuroanatomy Made Easy and Understandable. Austin, Texas: Pro-Ed, Inc.

Rothstein, Roy, & Wolf. The Rehabilitation Specialist’s Handbook. Philadelphia: F.A. Davis Company

IV. Suggested Course Maximum – 16

V. List any specific spatial or physical requirements beyond a typical classroom required to teach the course.

Classroom lecture only. Requirements include ability to project power point along with DVD/VCR presentations.

VI. Course Requirements/Grading System – Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course

Students have daily reading assignments as outlined in the course syllabus. Course instruction will include power point presentation, lecture outline and video/DVD presentation of relevant educational material.

2 Written exams	75%
Quizzes	7%
Professionalism Grade	3%
<u>Comprehensive Final</u>	<u>15%</u>
Total	100%

GRADE SCALE:

100	-	90	=	A
89	-	80	=	B
79	-	75	=	C
74	-	60	=	D
BELOW		59	=	F

VII. Curriculum Checklist

- **Academic General Education Course** (from ACGM – but not in WCJC Core)
No additional documentation needed

- **Academic WCJC Core Course**
Attach the Core Curriculum Checklist, including the following:

- Basic Intellectual Competencies
- Perspectives
- Exemplary Educational Objectives

- **WECM Courses**
If needed, revise the Program SCANS Matrix & Competencies Checklist.