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

Equate 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

Prepared by Kelly Wallace, PT, DPT  Date 6/28/11
Reviewed by department head Betty Salas  Date 6-28-11
Accuracy verified by Division Chair Carol Derkowski  Date 7-25-11
Approved by Dean of Vocational Instruction or Vice President of Instruction Stephanie Dees  Date 8/2/2011
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

<table>
<thead>
<tr>
<th>Course Learning Outcome</th>
<th>Method of Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>Unit exams  Comprehensive course final exam  Daily pop-quizzes  Professionalism grade</td>
</tr>
</tbody>
</table>
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.

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%
Comprehensive Final ............15%
Total ..................................100%

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

A “C” (75%) or above must be received for successful completion of this course.

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.