

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: PTAP 213

Number of Credits: 3

Course Title: Neurological Conditions

Course Prerequisites: Selective admission to the Physical Therapist Assistant program.

Textbooks: O’Sullivan; S.B. and Schmitz, T.J.; Physical Rehabilitation: 6th edition
O’Sullivan; S.B. and Schmitz, T.J.; Improving Functional Outcomes in Physical Rehabilitation, 2nd Edition

Course Description:

Exploration of the impact of selected neurological conditions on normal life span, motor development and motor control with emphasis on pathophysiology and physical therapy management of these conditions. Self-directed research and oral presentation of an assigned neurological condition is required.

Learning Outcomes:

At the end of this course, the student will

- A. recognize abnormal neurological function and motor development in patients by comparing/contrasting them to normal function and development;
- B. communicate an understanding of typical sites of damage or dysfunction within the nervous system, pathophysiology, clinical signs and symptoms, and physical impairments for selected neurological conditions and how these factors impact the common PT goals and expected functional outcomes for the neurological patient;
- C. demonstrate selected therapy assessment and intervention skills in the laboratory as they apply to neurological impairments;
- D. appropriately select, justify, sequence, and show progression of interventions for neurological patients in a variety of clinical settings through selected readings and accurate interpretation a PT plan of care;
- E. read and understand health care literature through self-directed research activities to prepare and present professional in-services in the workplace;
- F. communicate with patients using lay terminology and non-verbal strategies and with therapists and other clinicians using medical terminology and good written documentation;
- G. apply skills or expand knowledge from this course (or concurrent courses) by participating in one or more community service or professional development opportunities.

To achieve the learning outcomes, the student will:

1. discuss normal growth and movement from birth through maturation and aging. (A)
2. recognize primitive reflexes, postural reactions and know the significance these play in the development of voluntary skills and motor milestones. (A)
3. recognize the typical signs and symptoms and terminology associated with a variety of neurological conditions. (A,B)
4. discuss the etiology and pathophysiology responsible for many common neurological conditions. (A,B)
5. recognize the name and purpose of some diagnostic tests or procedures and assessment instruments used to evaluate neurological disorders. (A,B)
6. identify common motor control, tone, sensory, reflex, autonomic and cognitive deficits present with neurological impairment. (A,B,E)
7. understand and be able to recognize the clinical significance of the evaluative findings, problem list, short and long term goals and the plan of care written by the PT for neurologically involved patients. (B,D)
8. practice a variety of treatment interventions and assessment techniques for motor control, balance, coordination, postural awareness and functional activities that can be used within a PT's POC. (C)
9. discuss the typical physical therapy management of individual neurological diseases or conditions including contraindications and precautions. (B,C,D,E)
10. analyze case studies consisting of a physical therapy evaluation and plan of care; sequence appropriate progression of interventions to meet the therapeutic goals and discuss the elements of discharge planning, ADL/home modification and home exercise program. (D)
11. educate patients and family members on how they can be involved in the management of selected disease processes through regular participation in an appropriate physical therapy program. (D,F)
12. participate in the filming and editing of at least one video patient treatment with emphasis on appropriate patient and family interaction.
13. research, read and demonstrate understanding of current professional literature related to an assigned neurological condition. (B,E)
14. develop and provide a professional in-service presentation to classmates on an assigned neurological condition. (B,D,E,F)
15. write daily SOAP notes with emphasis on assessments and interventions appropriate for neurologically impaired patients. (E)
16. participate in one or more approved community service or professional development activity during this semester (G)

Course Requirements: To earn a grade of “C” or higher the student must earn 70% of the total points for the course and meet all of the following course requirements.

- satisfactory completion of developmental lab assignments
- minimum 75% average on integrated lab practicals
- minimum 75% average on three written case studies with SOAP notes
- minimum 75% in-service presentation on neurological condition

- co-curricular community service or professional development (required for grade of A only)

Course Grading Scale:

- A- 90% or more of total possible points including the comprehensive final exam; and minimum of 75% average on laboratory practical tests; and minimum of 75% average on three written case studies; satisfactory completion of developmental lab assignments; and satisfactory presentation on a neurological condition in-service and participation in at least one approved community service or professional development activity.
- B- 80% or more of total possible points including the comprehensive final exam; and minimum of 75% average on laboratory practical tests; and minimum of 75% average on three written case studies; satisfactory completion of developmental lab assignments; and satisfactory presentation on a neurological condition in-service.
- C- 70% or more of total possible points including the comprehensive final exam; and minimum of 75% average on laboratory practical tests; and minimum of 75% average on three written case studies; satisfactory completion of developmental lab assignments; and satisfactory presentation on a neurological condition in-service.
- D- 60% or more of total possible points including the comprehensive final exam; and minimum of 75% average on laboratory practical tests; and minimum of 75% average on three written case studies; satisfactory completion of developmental lab assignments; and satisfactory presentation on a neurological condition in-service.
- F- less than 60% of total possible points including the comprehensive final exam; or less than 75% average on laboratory practical tests; or less than 75% average on three written case studies; or failure to satisfactorily complete the developmental lab assignments or the neurological conditions in-service.

Attendance Policy: The college attendance policy, which is available at <http://www.bpsc.edu/catalog/current/academicpolicies.html>, allows that “more restrictive attendance requirements may apply to some specialized classes such as laboratory, activity, and clinical courses because of the nature of those courses.” The attendance policy of the Physical Therapy Assistant program is described in the Physical Therapy Assistant Clinical Handbook.

Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, certification exams and/or clinical fees.

Nondiscrimination Statement

Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

COORDINATOR FOR SECTION 504 AND ADA

Angie Cao, Student and Disability Services Specialist

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Equity/Compliance Coordinator

Teri Bashara, Director of Human Resources

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Reviewed by L. Bryant 4/19