SYLLABUS

DATE OF LAST REVIEW: Fall 2013

CIP CODE: 51.0806

SEMESTER: Departmental Syllabus

COURSE TITLE: Pathophysiology for Rehabilitation

COURSE NUMBER: PHTR 0220/1220

CREDIT HOURS: 5

INSTRUCTOR: Departmental Syllabus

OFFICE LOCATION: Departmental Syllabus

OFFICE HOURS: Departmental Syllabus

TELEPHONE: Departmental Syllabus

EMAIL: Departmental Syllabus

KCKCC-issued email accounts are the official means for electronically communicating with our students.

PREREQUISITES: Fundamental Treatment Procedures
Musculoskeletal I, II and III
Neuromuscular Rehabilitation
Clinical Skills I, II and III

REQUIRED TEXT AND MATERIALS:
Please check the KCKCC bookstore, http://www.kckccbookstore.com/ for the required texts.

COURSE DESCRIPTION:
This course is designed to prepare the physical therapist assistant student to work with patients presenting with diagnoses commonly seen in the rehabilitation setting. Topics will include an understanding of pathology and medical intervention for a variety of body systems as well as the tests and measures and proper interventions utilized by the physical therapist assistant. Additionally, the student will complete multiple case studies related to data collection and treatment of the complex patient.

METHODS OF INSTRUCTION:
A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, and panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.
COURSE OUTLINE:
I. Cardiovascular and Circulatory Systems
   A. Pathophysiology
   B. Common Pathologies
   C. Medical Management and Pharmacology
   D. Physical Therapy Management

II. Pulmonary System
   A. Pathophysiology
   B. Common Pathologies
   C. Medical Management and Pharmacology
   D. Physical Therapy Management

III. Integumentary System
   A. Pathophysiology
   B. Common Pathologies
   C. Medical Management and Pharmacology
   D. Physical Therapy Management

IV. Endocrine System
   A. Pathophysiology
   B. Common Pathologies
   C. Medical Management and Pharmacology
   D. Physical Therapy Management

V. Immune System
   A. Pathophysiology
   B. Common Pathologies
   C. Medical Management and Pharmacology
   D. Physical Therapy Management

VI. Digestive System
   A. Pathophysiology
   B. Common Pathologies
   C. Medical Management and Pharmacology
   D. Physical Therapy Management

VII. Urogynecological System
   A. Pathophysiology
   B. Common Pathologies
   C. Medical Management
   D. Physical Therapy Management

VIII. Oncology
   A. Pathophysiology
   B. Common Types
   C. Medical Management
   D. Physical Therapy Management

IX. Acute Care Setting
X. Emergency Response

XI. Psychosocial Issues

XII. Discharge Planning

EXPECTED LEARNER OUTCOMES:
Upon successful completion of this course, on written and/or practical examination:
A. The student will discuss the pathophysiologic effect of disease and/or dysfunction on various body symptoms.
B. The student will outline the common medical and pharmacological treatments used in the treatment of disorders and dysfunctions of various body symptoms.
C. The student will perform various physical therapy tests and measures utilized when working with a patient with a systemic dysfunction/disorder.
D. The student will assimilate assessment results to implement a treatment session within the PT plan of care for a patient with disorders/dysfunctions of various body symptoms.
E. The student will demonstrate an understanding of the influence of psychosocial issues in the treatment of a variety of patients.
F. The student will demonstrate the ability to modify physical therapy interventions for individuals treated within the acute care setting.
G. The student will identify emergency issues commonly seen in a rehabilitation setting.
H. The student will demonstrate an understanding of the role of the PTA in discharge planning.
I. The student will demonstrate an understanding of the role of the PTA as a professional in the rehabilitation team.

COURSE COMPETENCIES:
The student will discuss the pathophysiologic effect of disease and/or dysfunction on various body symptoms.

1. The student will compare and contrast the clinical presentation of various cardiovascular and circulatory disorders.
2. The student will compare and contrast the clinical presentation of various pulmonary disorders.
3. The student will discriminate between the clinical presentation of venous and arterial insufficiency.
4. The student will compare and contrast the clinical presentation of various wounds and burns.
5. The student will compare and contrast the clinical presentation of various endocrine disorders.
6. The student will outline the clinical presentation of various digestive disorders.
7. The student will describe the clinical presentation of various urogynecological disorders.
8. The student will describe the clinical presentation of various immune disorders.
9. The student will distinguish the clinical presentation of cancer in various stages of the disease.

The student will outline the common medical and pharmacological treatments used in the treatment of disorders and dysfunctions of various body symptoms.

10. The student will identify medical interventions used to treat a variety of disorders and dysfunctions of various body systems.
11. The student will examine the impact of medical intervention on the delivery of physical therapy services for a given body system disorder/dysfunction.
12. The student will compare and contrast common medications seen when working with patients in the rehabilitation setting.
13. The student will internalize the importance of patient education related to improving safety with pharmacological intervention.
The student will perform various physical therapy tests and measures utilized when working with a patient with a systemic dysfunction/disorder.

14. The student will assess a patient for circulatory dysfunction.
15. The student will measure chest wall excursion and expansion.
16. The student will observe thoracoabdominal movements and breathing patterns with activity.
17. The student will assess vital signs in a patient during activity completion.
18. The student will describe the characteristics of a cough and sputum in a patient with pulmonary dysfunction.
19. The student will perform circumferential measurements for a patient with edema.
20. The student will recognize normal and abnormal skin changes in a patient with integumentary dysfunction.
21. The student will distinguish between viable and non-viable tissue in the presence of a wound or burn.
22. The student will identify activities that aggravate or relieve a patient’s edema, pain, dyspnea or other systemic systems.

The student will assimilate assessment results to implement a treatment session within the PT plan of care for a patient with disorders/dysfunctions of various body symptoms.

23. The student will implement a complete treatment session within the PT plan for a patient with multi-system involvement.
24. The student will outline necessary modifications to address issues that arise when working with a patient with disorder/dysfunction of various body systems.
25. The student will outline the use of modalities in the treatment of a patient with disorders and dysfunctions of various body symptoms.
26. The student will discuss the use of compression in the treatment of acute and chronic edema.
27. The student will demonstrate the ability to apply compression to a patient with edema.
28. The student will outline the appropriate use of a given dressing/agent for an integumentary disorder.
29. The student will observe the application and removal of dressings/agents in the presence of an integumentary disorder.

The student will demonstrate an understanding of the influence of psychosocial issues in the treatment of a variety of patients.

30. The student will relate the clinical presentation of various psychological disorders to the modifications necessary during therapeutic intervention.
31. The student will examine the impact psychosocial issues play in working with a patient.
32. The student will summarize the effect of end of life issues on the provision of PT services.
33. The student will discuss the effect of diagnosed with a life-altering disease on both the individual and family members.

The student will demonstrate the ability to modify physical therapy interventions for individuals treated within the acute care setting.

34. The student will explain how treatment should be modified when a patient is monitored or treated with various equipment found only in the acute care setting.
35. The student will value the role of various team members in the treatment of the multiple trauma or complex acute patient.
36. The student will discuss the application of isolation and sterile techniques in a variety of patient situations.
The student will identify emergency issues commonly seen in a rehabilitation setting.

37. The student will create a handout used to educate other rehabilitation staff on the recognition and treatment of a potential emergency situation.
38. The student will distinguish the appropriate response to various emergency situations present in the rehabilitation setting.
39. The student will outline the clinical presentation and management of a patient who is epileptic.

The student will demonstrate an understanding of the role of the PTA as a professional in the rehabilitation team.

40. The student will defend the role of the PTA in the treatment of a patient with a systemic disorder/dysfunction.
41. The student will discuss when it is appropriate to communicate with the PT based on a patient’s response to treatment or change in status.
42. The student will display a professional demeanor in all interactions in the classroom and simulated patient treatment scenarios.
43. The student will conduct himself in a manner that demonstrates a commitment to legal, ethical and safe practice standards in all simulated patient treatment scenarios.

ASSESSMENT OF LEARNER OUTCOMES:
Assessment methods include, but may not be limited to: written examinations, lab practicals, homework, and observation of professional behavior.

SPECIAL NOTES:
This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college’s policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.

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