



COURSE OUTLINE

Course Number
PTA 112

Course Title
Pathology

Credits
3

Hours:
lecture/Lab/Other 3/0/0

Co- or Pre-requisite
PTA 105 Kinesiology
BIO 104 Anatomy & Physiology II with a grade of
C+ or higher

Fall/Spring
Offering

Catalog description:

Covers the essential nature of diseases, abnormalities of structure and function characteristic of diseases.

Required texts/other materials:

Goodman, C.C. & Fuller, K.S. (2017) Pathology for the Physical Therapist Assistant. 2nd edition Elsevier: St. Louis, MO. ISBN: 978-0-323-39549-6

Revision date: Fall 2023

Course coordinator: Holly Kaiser, 609-570-3478
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Information resources:

The course primarily uses the textbook and resources available on selected websites.

Student Learning Outcomes:

Following the successful completion of this course with a grade of C+ or higher, the learner will be able to:

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| 1. Demonstrate an understanding of the differences between normal and abnormal function of physiologic systems and how they will affect an individual's ability to interact with his or her environment. |
| 2. Explain the differences between various disease processes and why they manifest themselves the way that they do. |
| 3. Recognize common medications (generic, non-generic and over the counter), family patterns of their use, potential errors in uses and how to safely differentiate between them. |

Course-specific General Education Knowledge Goals and Core Skills.

General Education Knowledge Goals

Goal 1. Communication. Students will communicate effectively in both speech and writing.

Goal 3. Science. Students will use the scientific method of inquiry, through the acquisition of scientific knowledge.

Goal 4. Technology. Students will use computer systems or other appropriate forms of technology to achieve educational and personal goals.

MCCC Core Skills

Goal A. Written and Oral Communication in English. Students will communicate effectively in speech and writing, and demonstrate proficiency in reading.

Goal B. Critical Thinking and Problem-solving. Students will use critical thinking and problem solving skills in analyzing information.

Goal D. Information Literacy. Students will recognize when information is needed and have the knowledge and skills to locate, evaluate, and effectively use information for college level work.

Goal E. Computer Literacy. Students will use computers to access, analyze or present information, solve problems, and communicate with others.

Cognitive/Knowledge:

The learner will be able to successfully:

C1. Knows specific facts (Remember)

- C1.1 Identify pathways of disease transmission
- C1.2 Recall terminology related to pathology
- C1.3 Describe steps to prevent disease transmission
- C1.4 Describe the ICF model of disability^x
- C1.5 Recognize standard and universal precautions
- C1.6 Describe the physiology of inflammation
- C1.7 Outline general classifications of diseases
- C1.8 Describe etiology, manifestations, prognosis and treatment for disorders of the cardiovascular, pulmonary, gastrointestinal, urinary, integumentary, hematologic, lymphatic, endocrine, musculoskeletal, and nervous systems
- C1.9 Outline manifestations, risk factors, prognosis and treatment of cancer
- C1.10 List drug classification, drug names, indications and side effects for all medications in an assigned medicine chest
- C1.11 Describe factors related to infection, such as how the body protects itself from infection, manifestations of infection, treatment, and types

C2. Comprehends basic concepts and principles (Understand)

- C2.1 Describe the process of inflammation and tissue repair
- C2.2 Contrasts and compares generic versus name brand medications for common indications when provided with appropriate information
- C2.3 Differentiate between signs & symptoms of pathology from various systems
- C2.4 Compare and contrast inflammation and infection
- C2.5 Describe the role of fluids and electrolytes in health and disease states
- C2.6 Summarize information pertaining to an assigned topic located on choosingwisely.org

C3. Applies basic concepts and principles to new situations (Apply)

- C3.1 Relate an assigned diagnosis to appropriate physical therapy interventions
- C3.2 Indicate how an assigned diagnosis would impact the performance of an assigned physical therapy intervention
- C3.3 Utilize medical and pathology terminology in assignments

C4. Demonstrates the ability to analyze procedures to determine if organizational principles are being followed (Analyze)

- C4.1 Determine the type of information that a person with diabetes should know as it pertains to foot inspection, foot care, foot wear, and precautions/contraindications for exercise
- C4.2 Analyze the contents of an assigned medicine chest to describe the person to whom the medicine chest belongs

C5. Applies thinking skills when judging data and performance (Evaluate)

- C5.1 Evaluate information about the “blue zones” through a self-directed internet search

C6. Uses knowledge to create new methods necessary to understand pathology (Create)

- C6.1 Create an ICF Chart, based on a celebrity with a medical diagnosis^x
- C6.2 Create a SMART goal, based on independent research on the “blue zones”

Psychomotor:

The learner will be able to successfully:

P1. Observe professional skills performed by the instructor (Observe)

- P1.1 Observe the course instructor use the ICF Chart during a case study review
- P1.2 Observe the instructor use appropriate medical and pathology terminology during lecture

P2. Copy professional skills during learning activities, with feedback provided by the course instructor (Imitate)

- P2.1 Create an ICF Chart using information gathered on a celebrity with a disease
- P2.2 Utilize use appropriate medical and pathology terminology in assignments and discussion posts
- P2.3 Locate a peer reviewed article published within the past 5 years related to an assigned diagnosis
- P2.4 Translate medical and pathology terminology in a SOAP note translation assignment
- P2.5 Engage in discussion with classmates related to current or new pathology topics

Affective:

The learner will be able to successfully:

Affective

The learner will be able to successfully:

A1. Receive Phenomenon

- A1.1 Listen to others with respect
- A1.2 Receive feedback professionally
- A1.3 Attend class consistently
- A1.4 Arrive to all classes and clinicals prior to the start time

A2. Respond to Phenomenon

- A2.1 Participate in class
- A2.2 Know the safety rules and practice them
- A2.3 Respond to feedback in a professional manner
- A2.4 Prepare for lectures, labs and clinicals ahead of time

A3. Value

- A3.1 Demonstrate sensitivity to individual and cultural differences
- A3.2 Show an ability to solve problems
- A3.3 Inform PTAP faculty of matters one feels strongly about

A4. Organize

- A4.1 Recognize the need for balance between educational and personal priorities
- A4.2 Accept professional ethical standards, as evidenced by following them
- A4.3 Prioritize times effectively to meet educational and personal needs

A4.4 Complete and submit all assignments, assessments, and required documents on time

A5. Internalize

A5.1 Show self-reliance when working independently

A5.2 Cooperate in group activities

A5.3 Revise judgments and changes behavior in light of new evidence and feedback

A5.4 Value people for who they are, not how they look

A5.5 Identify sources of stress and implement effective coping behaviors

A5.6 Demonstrate a commitment to the physical therapy profession

Units of study in detail.

		Goals:	Learning Objectives
Unit 1	Introduction to Pathology, Disease Transmission	3, 4, A, D	C1.1, C2.4, C4.1, C4.2, A1.1-A1.8, C1.2-1.6, C2.3, P2.2
Unit 2	Introduction to Pharmacology, Infectious Disease	1, 3, 4, A, D, E	C1.11, P2.2
Unit 3	Inflammation & Immunopathology	1, 3, 4, A, D, E	C1.1, C2.4, C4.1, C4.2, A1.1-A1.8, C2.1, C2.2, P2.2
Unit 4	Cancer	1, 3, 4, A, D, E	C1.1, C1.9, C2.4, C4.1, C4.2, A1.1-A1.8, C3.1, C5.1, C6.2, P2.2
Unit 5	Genetic, Developmental & Congenital Disorders	1, 3, 4, A, D, E	C1.1, C2.4, C4.1, C4.2, A1.1-A1.8, P2.2
Unit 6	Fluids & Cardiovascular Disorders	1, 3, 4, A, D, E	C1.1, C2.4, C2.5, C4.1, C4.2, A1.1-A1.8, C3.2, P2.2
Unit 7	Respiratory Disorders	1, 3, 4, A, D, E	C1.2, C1.7, C1.8, P2.2
Unit 8	Blood & Lymphatic Disorders	1, 3, 4, A, D, E	C1.1, C2.4, C4.1, C4.2, A1.1-A1.8, P2.2
Unit 9	Gastrointestinal & genitourinary Disorders	1, 3, 4, A, D, E	C1.2, C1.7, C1.8, P2.2
Unit 10	Integumentary Disorders	1, 3, 4, A, D, E	C1.2, C1.7, C1.8, P2.2
Unit 11	Endocrine System Disorders	1, 3, 4, A, D, E	C1.2, C1.7, C1.8, C4.1, P2.2
Unit 12	Musculoskeletal Disorders	1, 3, 4, A, D, E	C1.2, C1.7, C1.8, P2.2
Unit 13	Nervous System Disorders	1, 3, 4, A, D, E	C1.2, C1.7, C1.8, P2.2

Evaluation of student learning:

Grading:

	% of grade	# within course
Exam(s)	30	3
Assignment(s)	40	4
Weekly Discussion Post(s)	25	10
Generic Abilities	5	Continuous

Academic Integrity Statement: There is a zero tolerance policy for plagiarism. Any work that violates the MCCC Academic Integrity policy will receive a grade of "0" and the learner will be reported to the College's Academic Integrity Committee consistent with College policies.

See <http://mlink.mccc.edu/omb/OMB210.pdf>

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