



# 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

**Implementation**  
**Summer**

**Catalog description:**

Required for Physical Therapist Assistant majors. Covers the essential nature of diseases, abnormalities of structure and function that are characteristic of diseases.

**Required texts/other materials:**

Moini (2013). Intro to Pathology for the Physical Therapist Assistant, Jones & Bartlett Publishing, ISBN 978-1-4496-3058-4

Venes (2013). Taber's Cyclopedic Medical Dictionary 22<sup>nd</sup> ed, FA Davis Publishers ISBN 978-0-8036-2977-6

**Revision date:** Spring 2016

**Course coordinator:** Barbara J. Behrens, 609-570-3385  
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**Information resources:**

The course primarily uses the textbook and resources available on the Internet.

**Course Competencies/Goals:**

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.

### **Course Objectives:**

**Cognitive/Knowledge:** the learner will be able to:

1. describe the disease process throughout various systems of the body.
2. differentiate between different types of infections and infectious diseases.
3. explain the processes of inflammation and tissue repair.
4. list types of musculoskeletal injuries common for each phase of the life span.
5. analyze medication information sheets for potential side effects that will manifest themselves in the musculoskeletal system.
6. describe pain as a component of the inflammatory response
7. describe processes for disease transmission and prevention

**Affective:** the learner will be able to:

1. recognize and respect psychosocial differences in how a patient will be able to understand or accept a disease process
2. recognize the importance of pain as a psychological and physiological response to injury and differentiate between the two
3. recognize the importance of recognizing a patient's psychological perceptions about his or her condition and what information can be explained to him or her
4. recognize the importance of vital signs as an indication of the extent of involvement the disease or injury has on the overall condition of a patient

**Units of study in detail.**

		<b>Goals:</b>	<b>Learning Objectives</b>
<b>Unit 1</b>	Cell Structure, Function & Pathology Inflammation, Immunopathology	3, 4, A, D	C1, C2, C3, C6, C7, A1
<b>Unit 2</b>	Neoplasia, Genetic & Developmental Diseases	1, 3, 4, A, D, E	C1, C4, A1, A3
<b>Unit 3</b>	Fluid & Hemodynamic Disorders Cardiovascular System, Respiratory System Hematopoietic & Lymphoid Systems	1, 3, 4, A, D, E	C1, C5, A4
<b>Unit 4</b>	Gastrointestinal, Liver & Biliary Systems The Pancreas & Endocrine Systems	1, 3, 4, A, D, E	C1, A3
<b>Unit 5</b>	The Integumentary System & Tissue Healing	1, 3, 4, A, D, E	C1, C3
<b>Unit 6</b>	Bones & Joints The Muscular & Nervous Systems	1, 3, 4, A, D, E	C1, C3, C4

**Evaluation of student learning:****Grading:**

	<b>% of grade</b>	<b># within course</b>
<b>Exam(s)</b>	50	3
<b>Paper(s)</b>	30	4
<b>Presentation(s)</b>	10	1
<b>Class Participation</b>	10	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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