

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

**ACADEMIC AFFAIRS**

Course Number: MAST 330 Department: Medical Assisting

Course Title: Intro to Human Disease Semester: Spring Year: 2007

**Objectives/Competencies**

<b>Course Objective</b>	<b>Competencies</b>
1. Upon completion of this course students will be able to demonstrate knowledge of anatomy and physiology of all body systems.	<ol style="list-style-type: none"><li>1. Define the terms anatomy, physiology, and pathology.</li><li>2. List and discuss in order of increasing complexity the levels of organization of the body.</li><li>3. Explain the meaning of the term homeostasis and give an example of a typical homeostatic mechanism.</li><li>4. Demonstrate an understanding of the important chemical elements within the human body.</li><li>5. Identify the basic structure and function of the 3 major components of a cell.</li><li>6. Demonstrate an understanding of the stages of mitosis.</li><li>7. List the structural components of a neuron.</li><li>8. Demonstrate an understanding of the physiological components of each major organ system.</li><li>9. Define and contrast the terms organ and system.</li><li>10. List the 11 major organ systems in the body.</li><li>11. Identify and locate the major organs of each system.</li></ol>

<b>Course Objective</b>	<b>Competencies</b>
2. Upon completion of this course students will be able to demonstrate knowledge of the common pathology/diseases of the major body systems.	<ol style="list-style-type: none"><li>1. Define the terms health and disease.</li><li>2. List and describe the basic mechanisms of disease and risk factors associated with disease.</li><li>3. List and describe categories of pathogenic organisms and explain how they cause disease.</li><li>4. Distinguish between the terms benign and malignant.</li><li>5. Demonstrate an understanding of pathogenesis.</li><li>6. Outline the events of the inflammatory response and explain its role in disease.</li><li>7. List and describe common diseases and disorders as they pertain to each major body system.</li><li>8. Identify the important signs and symptoms associated with common diseases/disorders of each major system of the body.</li></ol>

<b>Course Objective</b>	<b>Competencies</b>
3. Upon completion of this course students will be able to demonstrate an understanding of the treatment and diagnostic modalities in the ambulatory health care setting	<ol style="list-style-type: none"><li>1. List and describe the common type of diagnostics used to diagnose a specific disease/disorder</li><li>2. Demonstrate an understanding of the typical course and treatment management of a specific disease/disorder.</li></ol>

<b>Course Objective</b>	<b>Competencies</b>
4. Patient Instruction	<ol style="list-style-type: none"><li>1. Demonstrate the provision of instruction to patients for health maintenance.</li><li>2. Demonstrate the provision of instruction to patients for disease prevention.</li><li>3. Demonstrate the ability to instruct individuals according to their needs.</li></ol>