

## **PTAP-130 PATHOPHYSIOLOGY 3 CREDITS**

### **SYLLABUS**

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#### **CATALOG DESCRIPTION**

Introduction to the function, anatomical components and pathologies of each system within the human body. Study of sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention of diseases related to each system.

Prerequisites: Acceptance into the PTA Program

Semester Offered: Spring for On-Campus Program; Summer for Online Hybrid Program

#### ***COMMON STUDENT LEARNING OUTCOMES***

*Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...*

##### **BROAD AND SPECIALIZED LEARNING**

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

##### **CRITICAL THINKING**

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

##### **CULTURAL AND CIVIC ENGAGEMENT**

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

##### **EFFECTIVE COMMUNICATION**

Students will exchange ideas and information with clarity in multiple contexts.

##### **INFORMATION LITERACY**

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

##### **INTEGRATING TECHNOLOGIES**

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

#### **COURSE LEARNING OUTCOMES**

*Upon successful completion of the course, the student will be able to...*

1. Describe the integration of systems related to the human body.
2. Differentiate differences in pathology related to age, gender, race, and ethnicity.
3. Recognize the risks related to poor health behaviors.

4. Review pathologies resulting from congenital and childhood diseases and conditions.
5. Examine pathologies related to the immune system.
6. Describe pathologies related to the endocrine system.
7. Differentiate between pathologies related to the eye and ear.
8. Examine pathologies related to the integumentary system.
9. Describe pathologies related to the musculoskeletal system.
10. Explain pathologies related to the digestive system.
11. Identify pathologies related to the cardiopulmonary system.
12. Review pathologies related to the urinary system
13. Examine pathologies related to the reproductive system.
14. Describe pathologies related to the neurological system.
15. Clarify pathologies related to mental disorders.
16. Examine pathologies related to trauma.
17. Practice Professional Behaviors Student's Self-Assessment related to course content.
18. Describe basic concepts related to the APTA Guide to Physical Therapist Practice.

## SPECIFIC LEARNING OBJECTIVES

*Upon successful completion of the course, the student will be able to...*

1. Describe the integration of systems related to the human body.
  - 1a. Explain how individual systems are integrated to function together.
  - 1b. Relate common diagnostic tests and procedures.
2. Differentiate differences in pathology related to age, gender, race, and ethnicity.
  - 2a. Describe how responses to common pathologic conditions may vary with age, gender, and race.
  - 2b. Identify selected pathologies for which racial or ethnic groups may be predisposed.
3. Recognize the risks related to poor health behaviors.
  - 3a. Describe the consequences resulting from poor health behaviors.
  - 3b. Describe the effects of modeling poor health behaviors.
4. Review pathologies resulting from congenital and childhood diseases and conditions.
  - 4a. Describe the function, anatomical components, and pathologies of congenital and childhood diseases and conditions.
  - 4b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to congenital and childhood diseases.
5. Examine pathologies related to the immune system.
  - 5a. Describe the function, anatomical components, and pathologies of the immune system.
  - 5b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the immune system.
6. Describe pathologies related to the endocrine system.
  - 6a. Describe the function, anatomical components, and pathologies of the endocrine system.
  - 6b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the endocrine system.
7. Differentiate between pathologies related to the eye and ear.
  - 7a. Describe the function, anatomical components, and pathologies of the eye and ear.
- 7b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the eye and ear.
8. Examine pathologies related to the integumentary system.
  - 8a. Describe the function, anatomical components, and pathologies of the integumentary system.
  - 8b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the integumentary system.

9. Describe pathologies related to the musculoskeletal system.
  - 9a. Describe the function, anatomical components, and pathologies of the musculoskeletal system.
  - 9b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the musculoskeletal system.
10. Explain pathologies related to the digestive system.
  - 10a. Describe the function, anatomical components, and pathologies of the digestive system.
  - 10b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the digestive system.
11. Identify pathologies related to the cardiopulmonary system.
  - 11a. Describe the function, anatomical components, and pathologies of the respiratory system.
  - 11b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the respiratory system.
  - 11c. Describe the function, anatomical components, and pathologies of the circulatory system.
  - 11d. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the circulatory system.
  - 11e. Identify the direction of the blood flow through the heart and lungs.
12. Review pathologies related to the urinary system.
  - 12a. Describe the function, anatomical components, and pathologies of the urinary system.
  - 12b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the urinary system.
13. Examine pathologies related to the reproductive system.
  - 13a. Describe the function, anatomical components, and pathologies of the reproductive system.
  - 13b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the reproductive system.
14. Describe pathologies related to the neurological system.
  - 14a. Describe the function, anatomical components, and pathologies of the nervous system.
  - 14b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the nervous system.
15. Clarify pathologies related to mental disorders.
  - 15a. Describe the function, anatomical components, and pathologies of the mental disorders.
  - 15b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the mental disorders.
16. Examine pathologies related to trauma.
  - 16a. Describe the function, anatomical components, and pathologies related to trauma. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to trauma.
17. Practice Professional Behaviors Student's Self-Assessment related to course content.
  - 17a. Commitment to Learning – Demonstrate the ability to self-assess, self-correct, and self-direct. Identify needs and sources of learning. Seek new knowledge and understanding.
  - 17b. Interpersonal Skills – Demonstrate the ability to interact effectively with patients, families, colleagues, other health care professionals, and the community. Demonstrate the ability to effectively deal with cultural and ethnic diversity issues.
  - 17c. Communication Skills – Demonstrate the ability to communicate effectively (i.e., speaking, body language, reading, writing, and listening) for a varied audiences and purposes.
  - 17d. Effective Use of Time – Demonstrate the ability to obtain maximum benefit from a minimum investment of time and resources.
  - 17e. Use of Constructive Feedback – Demonstrate the ability to identify sources and seek out feedback and to effectively use and provide feedback for improving personal interaction.
  - 17f. Problem-Solving – Demonstrate the ability to recognize and define problems, analyze data, develop and implement solutions, and evaluate outcomes.)
  - 17g. Professionalism – Demonstrate the ability to exhibit appropriate professional conduct and to represent the profession effectively.

- 17h. Responsibility – Demonstrate the ability to fulfill commitments and to be accountable for actions and outcomes.
- 17i. Critical Thinking – Demonstrate the ability to question logically; to identify, generate, and evaluate elements of a logical argument; to recognize and differentiate facts, illusions, assumptions, and hidden assumptions; and to distinguish the relevant from the irrelevant.
- 17j. Stress Management – Demonstrate the ability to identify sources of stress and to develop effective coping behaviors.
- 18. Describe basic concepts related to the APTA Guide to Physical Therapist Practice.
  - 18a. Integrate basic concepts presented in the APTA Guide to Physical Therapist Practice related to course content.