

SAN JUAN COLLEGE - PTA PROGRAM SYLLABUS

COURSE #: PTAP 130
COURSE TITLE: Pathophysiology
OF CREDITS: 3

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.

SEMESTER OFFERED: Spring for on-campus program; Summer for online program
PREREQUISITES: Acceptance into the PTA Program

COMMON STUDENT LEARNING OUTCOMES

Upon successful completion of a San Juan College degree, the student will be able to:

LEARN (L) - Students will actively and independently acquire, apply and adapt skills and knowledge to develop expertise and a broader understanding of the world as lifelong learners.

THINK (T) - Students will think analytically and creatively to explore ideas, make connections, draw conclusions, and solve problems.

COMMUNICATE (C) - Students will exchange ideas and information with clarity and originality in multiple contexts.

INTEGRATE (I) - Students will demonstrate proficiency in the use of technologies in the broadest sense related to their field of study.

ACT (A) - Students will act purposefully, reflectively, and respectfully in diverse and complex environments.

GENERAL 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.
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 generic abilities related to course content.
 18. Describe basic concepts related to the *APTA Guide to Physical Therapist Practice*.
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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. (L)
 - 1b. Relate common diagnostic tests and procedures. (L,T)
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. (L,T,C)
 - 2b. Identify selected pathologies for which racial or ethnic groups may be predisposed. (L)
3. Recognize the risks related to poor health behaviors.
 - 3a. Describe the consequences resulting from poor health behaviors. (L,T,C)
 - 3b. Describe the effects of modeling poor health behaviors. (L)
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. (L,T,C)
 - 4b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to congenital and childhood diseases. (L)
5. Examine pathologies related to the immune system.
 - 5a. Describe the function, anatomical components, and pathologies of the immune system. (L,T,C)
 - 5b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the immune system. (L)
6. Describe pathologies related to the endocrine system.
 - 6a. Describe the function, anatomical components, and pathologies of the endocrine system. (L,T,C)
 - 6b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the endocrine system. (L)
7. Differentiate between pathologies related to the eye and ear.
 - 7a. Describe the function, anatomical components, and pathologies of the eye and ear. (L,T,C)
 - 7b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the eye and ear. (L)
8. Examine pathologies related to the integumentary system.
 - 8a. Describe the function, anatomical components, and pathologies of the integumentary system. (L,T,C)
 - 8b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the integumentary system. (L)
9. Describe pathologies related to the musculoskeletal system.
 - 9a. Describe the function, anatomical components, and pathologies of the musculoskeletal system. (L,T,C)
 - 9b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the musculoskeletal system. (L)
10. Explain pathologies related to the digestive system.
 - 10a. Describe the function, anatomical components, and pathologies of the digestive system. (L,T,C)
 - 10b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to

- the digestive system. (L)
11. Identify pathologies related to the cardiopulmonary system.
 - 11a. Describe the function, anatomical components, and pathologies of the respiratory system. (L,T,C)
 - 11b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the respiratory system. (L)
 - 11c. Describe the function, anatomical components, and pathologies of the circulatory system. (L,T,C)
 - 11d. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the circulatory system. (L)
 - 11e. Identify the direction of the blood flow through the heart and lungs. (L)
 12. Review pathologies related to the urinary system.
 - 12a. Describe the function, anatomical components, and pathologies of the urinary system. (L,T,C)
 - 12b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the urinary system. (L)
 13. Examine pathologies related to the reproductive system.
 - 13a. Describe the function, anatomical components, and pathologies of the reproductive system. (L,T,C)
 - 13b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the reproductive system. (L)
 14. Describe pathologies related to the neurological system.
 - 14a. Describe the function, anatomical components, and pathologies of the nervous system. (L,T,C)
 - 14b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the nervous system. (L)
 15. Clarify pathologies related to mental disorders.
 - 15a. Describe the function, anatomical components, and pathologies of the mental disorders. (L,T,C)
 - 15b. Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to the mental disorders. (L)
 16. Examine pathologies related to trauma.
 - 16a. Describe the function, anatomical components, and pathologies related to trauma. (L,T,C)
Identify sign and symptoms, etiology, diagnosis, treatment, prognosis, and prevention related to trauma. (L)
 17. Practice generic abilities related to course content. (*Generic Abilities adapted from the Physical Therapy Program, University of Wisconsin-Madison, May et al. Journal of Physical Therapy Education, 9:1, Spring, 1995.*)
 - 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. (L,T,C,I,A)
 - 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. (L,T,C,I,A)
 - 17c. *Communication Skills* – Demonstrate the ability to communicate effectively (i.e., speaking, body language, reading, writing, and listening) for a varied audiences and purposes. (L,T,C,I,A)
 - 17d. *Effective Use of Time* – Demonstrate the ability to obtain maximum benefit from a minimum investment of time and resources. (L,T,C,I,A)
 - 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. (L,T,C,I,A)
 - 17f. *Problem-Solving* – Demonstrate the ability to recognize and define problems, analyze data, develop and implement solutions, and evaluate outcomes. (L,T,C,I,A)
 - 17g. *Professionalism* – Demonstrate the ability to exhibit appropriate professional conduct and to represent the profession effectively. (L,T,C,I,A)

- 17h. *Responsibility* – Demonstrate the ability to fulfill commitments and to be accountable for actions and outcomes. (L,T,C,I,A)
- 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. (L,T,C,I,A)
- 17j. *Stress Management* – Demonstrate the ability to identify sources of stress and to develop effective coping behaviors. (L,T,C,I,A)
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. (I)
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ASSESSMENT TECHNIQUES USED BUT NOT LIMITED TO:

1. Pre-Test and Post-Test.
 2. Lecture Exams.
 3. Midterm Student Evaluations using Generic Abilities.
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ACCOMODATIONS STATEMENT

Students who need accommodations (i.e., notetaker, interpreter, special seating, etc.) need to provide accommodation notices to the instructor. Students can contact the Students with Disabilities on Campus (SDOC) Coordinator in the Counseling Center, located in the Administration Building, to make arrangements and provide documentation in accordance with the Americans with Disabilities Act of 1990.

ACADEMIC HONESTY RULES

San Juan College expects all students to adhere to the Academic Honesty Rules as posted on our website, <http://www.sanjuancollege.edu/academichonesty>. All Health Sciences Programs have a responsibility to ensure enrolled students and graduates are safe, ethical and competent practitioners. To ensure professionalism, students and faculty must uphold and abide by college and program accreditation specific policies.

NON-DISCRIMINATION STATEMENT

San Juan College will comply with existing federal and state laws and regulations, including the Title VII Civil Rights Act of 1964 and 1990, Executive Order 11246 Section 504 of the 1973 Rehabilitation Act, the Age Discrimination Act of 1967, the Americans with Disability Act of 1990, as amended, and the Vietnam Era Veteran's Readjustment Act of 1974. It is the policy of the College to provide for equal opportunity in recruitment, employment, compensation, benefits, transfers, layoffs, returns, institutionally sponsored education, training, tuition assistance, social and recreational programs, staff development opportunities and advancement, and all other personnel practices without regard to race, color, religion, national origin, ancestry, sex, disability, age, or veteran's status. Questions should be directed to the EEO officer at 566-3253.

The College reserves the right to change, modify, or alter without notice all fees, charges, tuition, expenses, and costs of any kind and further reserves the right to add or delete without notice any course or program offering, service, or information.

In accordance with the Americans with Disabilities Act, the information in this publication will be made available in alternative formats upon request to Student Services. Call (505) 566-3271 for assistance.

Syllabus developed and/or reviewed by:

Dean of Health Sciences: Signatures on file Date: _____

On-Campus PTA Program Director: _____ Date: _____

Online PTA Program Director: _____ Date: _____

PTA Program Faculty: _____ Date: _____

PTA Program Faculty: _____ Date: _____