

SAN JUAN COLLEGE - PTA PROGRAM SYLLABUS

COURSE #: PTAP 140
COURSE TITLE: Therapeutic Exercise
OF CREDITS: 3

CATALOG DESCRIPTION: Clinical techniques related to stretching, strengthening, posture, balance, coordination, agility, and aerobic conditioning. Treatment strategies for patients with surgical and non-surgical diagnosis.

SEMESTER OFFERED: Summer for on-campus program; Fall for online program
PREREQUISITES: PTAP 110, PTAP 125, PTAP 130, PTAP 150

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. Apply techniques related to joint and muscle flexibility.
2. Apply techniques related to strength and endurance training.
3. Apply techniques related to body mechanics and postural stabilization.
4. Apply techniques related to balance, coordination, and agility training.
5. Apply techniques related to aerobic conditioning.
6. Recognize appropriate treatment programs within the plan of care developed by the supervising PT.
7. Explain outcome assessment related to course content.
8. Practice generic abilities related to course content.
9. 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. Apply techniques related to joint and muscle flexibility.
 - 1a. Describe soft tissue extensibility. (L)
 - 1b. Demonstrate techniques to maintain joint and muscle flexibility. (L)
 - 1c. Explain the indications, contraindications, precautions, and physiological response related to stretching. (L,T,C)
 - 1d. Demonstrate competency in the application of stretching techniques to meet requirements outlined in the skill check and lab exam. (L,T,C,I,A)
 - 1e. Measure PROM or AROM to determine response to stretching exercises. (L,T,C,I,A)
 - 1f. Identify normal and functional ROM for all major joints. (L)
2. Apply techniques related to strength and endurance training.
 - 2a. Identify which muscles are active during a given functional activity. (L)
 - 2b. Explain the use of common exercise equipment such as free weights, Thera-Band, foam rolls, pulleys, isokinetic machines, steppers, treadmills, elliptical, stationary bicycle, UBE, etc. (L)
 - 2c. Demonstrate the following concepts related to progressive resistive exercises: isometric, isotonic, isokinetic, gravity-eliminated, gravity minimized, against-gravity, open-chain, closed-chain, concentric, eccentric, etc. (L)
 - 2d. Explain the indications, contraindications, precautions, and physiological response related to strengthening. (L,T,C)
 - 2e. Demonstrate competency in the application of strengthening techniques to meet requirements outlined in the skill check and lab exam. (L,T,C,I,A)
 - 2f. Measure strength to determine response to strengthening exercises. (L,T,C,I,A)
 - 2g. Perform functional muscle testing. (L)
3. Apply techniques related to body mechanics and postural stabilization.
 - 3a. Describe postural alignment during resistive exercise training. (L,T,C)
 - 3b. Apply techniques related to relaxation. (L,T,C,I,A)
 - 3c. Apply techniques to improve core strength. (L,T,C,I,A)
 - 3d. Explain the indications, contraindications, precautions, and physiological response related to body mechanics and postural stabilization. (L,T,C)
 - 3e. Demonstrate competency in the application of body mechanics and postural stabilization to meet requirements outlined in the skill check and lab exam. (L,T,C,I,A)
4. Apply techniques related to balance, coordination, and agility training.
 - 4a. Demonstrate common exercise equipment such as foam, BAPS, BOSU, etc. (L)
 - 4b. Perform the following balance assessment tools such as the Tinetti and Berg. (L)
 - 4c. Explain the indications, contraindications, precautions, and physiological response related to balance, coordination, and agility training. (L,T,C)
 - 4d. Demonstrate competency in the application of balance, coordination, and agility training to meet requirements outlined in the skill check and lab exam. (L,T,C,I,A)
 - 4e. Describe changes in balance reactions after participation in structured balance training activities. (L,T,C)
5. Apply techniques related to aerobic conditioning.
 - 5a. Differentiate aerobic and anaerobic exercise. (L,T,C)
 - 5b. Explain the effects of exercise on the cardiovascular system. (L)
 - 5c. Review the perceived exertion scale. (L)
 - 5d. Explain the indications, contraindications, precautions, and physiological response related to aerobic conditioning. (L,T,C)

- 5e. Describe cardiopulmonary signs during aerobic conditioning such as heart rate, cardiac rhythm, respiration rate, blood pressure, oxygen saturation, color, etc. (L)
 - 5f. Recognize signs of distress during aerobic conditioning such as dyspnea, excessive sweating, angina, claudication, decreased level of alertness, cyanosis, etc. (L,T)
 - 6. Recognize appropriate treatment programs within the plan of care developed by the supervising PT.
 - 6a. Select appropriate therapeutic exercises for surgical or non-surgical patients with appropriate responses to change in status and change in the plan of care. (L,T,C,I,A)
 - 6b. Select appropriate therapeutic exercises for obstetric patients with appropriate responses to change in status and change in the plan of care. (L,T,C,I,A)
 - 6c. Modify treatment programs to ensure optimal functional outcomes. (L,T,C,I,A)
 - 7. Explain outcome assessment related to course content.
 - 7a. Identify equipment and resources necessary for discharge. (L)
 - 7b. Finalize a functional home exercise program including ADLs. (L,T,C,I,A)
 - 7c. Provide input to the supervising physical therapist about outcomes. (L,T,C)
 - 8. 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.*)
 - 8a. *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)
 - 8b. *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)
 - 8c. *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)
 - 8d. *Effective Use of Time* – Demonstrate the ability to obtain maximum benefit from a minimum investment of time and resources. (L,T,C,I,A)
 - 8e. *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)
 - 8f. *Problem-Solving* – Demonstrate the ability to recognize and define problems, analyze data, develop and implement solutions, and evaluate outcomes. (L,T,C,I,A)
 - 8g. *Professionalism* – Demonstrate the ability to exhibit appropriate professional conduct and to represent the profession effectively. (L,T,C,I,A)
 - 8h. *Responsibility* – Demonstrate the ability to fulfill commitments and to be accountable for actions and outcomes. (L,T,C,I,A)
 - 8i. *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)
 - 8j. *Stress Management* – Demonstrate the ability to identify sources of stress and to develop effective coping behaviors. (L,T,C,I,A)
 - 8k. Use a SOAP note format to document lab skills. (L,T,C)
 - 9. Describe basic concepts related to the *APTA Guide to Physical Therapist Practice*.
 - 9a. Integrate basic concepts presented in the *APTA Guide to Physical Therapist Practice* related to course content. (I)
 - 9b. Identify the parameters of the scope of practice of the PTA related to course content. (L)
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ASSESSMENT TECHNIQUES USED BUT NOT LIMITED TO:

1. Pre-Test and Post-Test.
 2. Lecture Exams.
 3. Midterm and Final Lab Exams.
 4. Assignments.
 5. 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: _____