



Western Technical College

# 10524149 Physical Therapist Assistant Rehabilitation Across the Lifespan

## Course Outcome Summary

### Course Information

<b>Description</b>	A capstone course that integrates concepts of pathology, physical therapy interventions and data collection across the lifespan. In addition the PTA's role in health, wellness and prevention; reintegration, and physical therapy interventions for special patient populations will be addressed.
<b>Career Cluster</b>	Health Science
<b>Instructional Level</b>	Associate Degree Courses
<b>Total Credits</b>	2
<b>Total Hours</b>	36

### Pre/Corequisites

Prerequisite	10524144 PTA Principles of Neuro Rehab
Prerequisite	10524145 PTA Principles of Musculo Rehab
Prerequisite	10524146 PTA Cardio & Integ Management

### Textbooks

*Physical Rehabilitation - with Access*. 7th Edition. Copyright 2019. O'Sullivan, Susan B., Thomas J. Schmitz, and George Fulk. Publisher: F.A. Davis Co. **ISBN-13:** 978-0-8036-6162-2. Required.

### Success Abilities

1. Cultivate Passion: Expand a Growth-Mindset
2. Live Responsibly: Embrace Sustainability

## High Impact Practices

1. Community Based Learning Project: a key learning outcome of this course is to connect academic learning and civic development while simultaneously addressing a community partner's needs, interests, or problems.

## Program Outcomes

1. Function under the supervision of a physical therapist in a safe, legal, professional, and ethical manner to ensure the safety of patients, self, and others throughout the clinical interaction
2. Demonstrate clear and collaborative communication with patients, families, and health care team
3. Exhibit behaviors and conduct that reflect respect and sensitivity according to physical therapy practice standards
4. Demonstrate critical thinking skills to implement and modify treatment within a plan of care under the direction and supervision of a physical therapist
5. Perform data collection essential for carrying out the plan of care under the direction and supervision of the physical therapist

## Course Competencies

### 1. Integrate concepts of pathology, PT interventions, and data collection for application to pediatric populations

#### Assessment Strategies

- 1.1. by developing an analysis (format may be oral, written, or graphic)
- 1.2. through case studies or scenarios
- 1.3. by answering questions on one or more exams

#### Criteria

*Your performance will be successful when:*

- 1.1. you incorporate concepts of pathology for application to the pediatric population
- 1.2. you incorporate concepts of PT interventions for application to the pediatric population
- 1.3. you incorporate concepts of data collection and developmental tests for application to the pediatric population
- 1.4. your response demonstrates a thorough understanding of relevant aspects of the case
- 1.5. your response outlines in detail the decision selected
- 1.6. your response includes an explanation of why the decision was selected
- 1.7. your response is supported by relevant evidence
- 1.8. your response is well organized

#### Learning Objectives

- 1.a. Identify influences on early development and growth.
- 1.b. Examine assistive technology used in providing care for pediatric populations.
- 1.c. List the important physical, cognitive and social milestones associated with childhood.
- 1.d. Explore language development in childhood including how this applies to interaction with pediatric populations in physical therapy.
- 1.e. Describe the PTA role in intervention and settings where a PTA may be working with pediatric populations..
- 1.f. Describe the practice settings where a PTA may be working with pediatrics.
- 1.g. List the precautions, indications, contraindications, pt/client perspectives, social, educational, and environmental considerations when working with a pediatric population.
- 1.h. Design interventions to meet developmental needs in pediatric population within the established plan of care by the physical therapist using case scenarios.
- 1.i. Describe methods of documenting status, progress and intervention in pediatric populations.
- 1.j. Defend decisions made related to physical therapy interventions using relevant evidence, clinical judgement and theory.

## **2. Integrate concepts of pathology, PT interventions, and data collection for application to adolescent populations**

### **Assessment Strategies**

- 2.1. by developing an analysis (format may be oral, written, or graphic)
- 2.2. through case studies or scenarios
- 2.3. by answering questions on one or more exams

### **Criteria**

*Your performance will be successful when:*

- 2.1. you integrate concepts of pathology for application to the adolescent population.
- 2.2. you incorporate concepts of pathology for application to the adolescent population
- 2.3. you incorporate concepts of PT interventions for application to the adolescent population
- 2.4. you integrate concepts of PT interventions for application to the adolescent population.
- 2.5. you integrate concepts of data collection for application to the adolescent population.
- 2.6. you incorporate concepts of data collection and developmental tests for application to the adolescent population
- 2.7. you demonstrate a thorough understanding of relevant aspects of the case.
- 2.8. your response demonstrates a thorough understanding of relevant aspects of the case
- 2.9. you outline in detail the decision selected.
- 2.10. your response outlines in detail the decision selected
- 2.11. your response includes an explanation of why the decision was selected
- 2.12. you explain why the decision was selected.
- 2.13. your response is supported by relevant evidence
- 2.14. you support your response with relevant evidence.
- 2.15. your response is well organized
- 2.16. you organize your response.

### **Learning Objectives**

- 2.a. List the important physical, cognitive and social milestones associated with adolescent population.
- 2.b. Describe the practice settings where a PTA may be working with adolescent populations.
- 2.c. List the precautions, indications, contraindications, pt/client perspectives and environmental considerations when working with an adolescent population.
- 2.d. Design interventions to meet developmental needs in adolescent population within the established plan of care by the physical therapist using case scenarios.
- 2.e. Use ICF to describe pt/client impairments, activity and participation restrictions for various pathologies in an adolescent population.
- 2.f. Examine data collection unique to adolescent populations.
- 2.g. Defend decisions made related to physical therapy interventions using relevant evidence, clinical judgement and theory.

## **3. Integrate concepts of pathology, PT interventions, and data collection for application to adult populations**

### **Assessment Strategies**

- 3.1. by developing an analysis (format may be oral, written, or graphic)
- 3.2. through case studies or scenarios
- 3.3. by answering questions on one or more exams

### **Criteria**

*Your performance will be successful when:*

- 3.1. you incorporate concepts of pathology for application to the adult population
- 3.2. you incorporate concepts of PT interventions for application to the adult population
- 3.3. you incorporate concepts of data collection and outcome assessment for application to the adult population
- 3.4. your response demonstrates a thorough understanding of relevant aspects of the case
- 3.5. you demonstrate a thorough understanding of relevant aspects of the case.
- 3.6. your response outlines in detail the decision selected
- 3.7. you outline in detail the decision selected.
- 3.8. your response includes an explanation of why the decision was selected

- 3.9. you explain why the decision was selected.
- 3.10. your response is supported by relevant evidence
- 3.11. you support your response with relevant evidence.
- 3.12. you organize your response.
- 3.13. your response is well organized

#### **Learning Objectives**

- 3.a. Use ICF to describe pt/client impairments, activity and participation restrictions for various pathologies in an adolescent population.
- 3.b. List the precautions, indications, contraindications, pt/client perspectives, vocational, and environmental considerations when working with adult populations
- 3.c. Describe physical and cognitive changes associated with adult populations.
- 3.d. Describe the practice settings where a PTA may be working with adult populations.
- 3.e. Design interventions to meet developmental needs of adult populations within the established plan of care by the physical therapist using case scenarios.
- 3.f. Defend decisions made related to physical therapy interventions using relevant evidence, clinical judgement and theory.
- 3.g. Examine screens, tests and measures for data collection unique to adult populations.

### **4. Integrate concepts of pathology, PT interventions, and data collection for application to geriatric populations**

#### **Assessment Strategies**

- 4.1. by developing an analysis (format may be oral, written, or graphic)
- 4.2. through case studies or scenarios
- 4.3. by answering questions on one or more exams

#### **Criteria**

*Your performance will be successful when:*

- 4.1. you incorporate concepts of pathology for application to the geriatric population
- 4.2. you incorporate concepts of PT interventions for application to the geriatric population
- 4.3. you incorporate concepts of data collection and outcome assessment for application to the geriatric population
- 4.4. you demonstrate a thorough understanding of relevant aspects of the case.
- 4.5. your response demonstrates a thorough understanding of relevant aspects of the case
- 4.6. your response outlines in detail the decision selected
- 4.7. you outline in detail the decision selected.
- 4.8. your response includes an explanation of why the decision was selected
- 4.9. you explain why the decision was selected.
- 4.10. you support your response with relevant evidence.
- 4.11. your response is supported by relevant evidence
- 4.12. you organize your response.
- 4.13. your response is well organized

#### **Learning Objectives**

- 4.a. Examine death, dying and bereavement.
- 4.b. List the precautions, indications, contraindications, pt/client perspectives, social, community, and environmental considerations when working with geriatric populations.
- 4.c. Use ICF to describe pt/client impairments, activity and participation restrictions for various pathologies in an geriatric population.
- 4.d. Describe physical and cognitive changes associated with geriatric populations.
- 4.e. Describe the practice settings where a PTA may be working with geriatric populations.
- 4.f. Design interventions to meet developmental needs of geriatric populations within the established plan of care by the physical therapist using case scenarios.
- 4.g. Detail decisions made related to physical therapy interventions using relevant evidence, clinical thinking skills.
- 4.h. Examine screens used to assess cognitive functioning, gait, locomotion, balance and function in geriatric populations.
- 4.i. Determine unique considerations for this population related to power of attorney privileges and abuse.

### **5. Differentiate typical/atypical development across the lifespan**

### **Assessment Strategies**

- 5.1. by developing an analysis (format may be oral, written, 3D, or graphic)
- 5.2. through case studies or scenarios
- 5.3. by answering questions on one or more exams

### **Criteria**

*Your performance will be successful when:*

- 5.1. you differentiate between the stages of aging
- 5.2. you identify common health changes associated with the stages of aging
- 5.3. you describe the role of physical therapy related to the common health changes associated with each stage of aging
- 5.4. you identify typical development across the lifespan
- 5.5. you identify atypical development across the lifespan
- 5.6. you apply development across the lifespan to appropriate physical therapy interventions

### **Learning Objectives**

- 5.a. Identify the stages of aging.
- 5.b. List the physical changes associated with each stage of aging.
- 5.c. List the cognitive and emotional changes associated with each stage of aging.
- 5.d. List the psycho-social changes associated with each stage of aging.
- 5.e. Define successful aging.
- 5.f. Describe atypical development associated with each stage of aging.
- 5.g. Integrate understanding of typical/ atypical development with PT interventions using case scenarios.

## **6. Examine the role of the PTA in promotion of health and wellness and prevention**

### **Assessment Strategies**

- 6.1. by developing an analysis of the role of the PTA in promotion of health, wellness, and prevention (written, oral, case study)
- 6.2. by answering questions on one or more exams
- 6.3. through case studies or scenarios

### **Criteria**

*Your performance will be successful when:*

- 6.1. you differentiate between the role of the PT and PTA in health, wellness, and prevention
- 6.2. you explore national and professional initiatives related to health, wellness, and prevention
- 6.3. you examine the responsibility of the physical therapy profession in health, wellness, and prevention
- 6.4. you differentiate between health, wellness, and prevention
- 6.5. your response is supported by relevant evidence

### **Learning Objectives**

- 6.a. Differentiate between the role of the PT and PTA in health, wellness and prevention.
- 6.b. Explore national and professional initiatives related to health, wellness and prevention.
- 6.c. Describe the responsibility of the physical therapy profession in health, wellness and prevention including legislative responsibilities.
- 6.d. Design health, wellness or prevention program for community based need.
- 6.e. Describe how the PTA can incorporate health, wellness and prevention into interventions within the established plan of care of the physical therapist.

## **7. Determine patient re-integration to home, community, and work environment**

### **Assessment Strategies**

- 7.1. by developing an analysis (format may be oral, written, or graphic)
- 7.2. by answering questions on one or more exams
- 7.3. through case studies or scenarios

### **Criteria**

*Your performance will be successful when:*

- 7.1. you recognize barriers related to safety in home, community, and work environment
- 7.2. you recognize levels of functional status
- 7.3. you analyze levels of functional status related to re-integration to home, community, and work

- environment
- 7.4. your response outlines in detail the decision selected
- 7.5. your response includes an explanation of why the decision was selected
- 7.6. your response is supported by relevant evidence
- 7.7. your response is well organized

#### **Learning Objectives**

- 7.a. Describe physical barriers related to safety and ADA compliance in home, community, and work environments.
- 7.b. Explore assessment tools used to define functional status of a patient.
- 7.c. Describe the role of the PTA in determining readiness for re-integration to home, community, social, and work environment.
- 7.d. Detail adjustments made to interventions within the established plan of care of the physical therapist to facilitate re-integration to home, community, social and work environment using case scenarios.
- 7.e. Recognize levels of functional status.
- 7.f. Support decisions made using relevant evidence and clinical thinking.

### **8. Explore physical therapy interventions for special patient populations**

#### **Assessment Strategies**

- 8.1. by describing a plan for intervention for special patient populations
- 8.2. through case studies or scenarios

#### **Criteria**

*Your performance will be successful when:*

- 8.1. you identify the concerns
- 8.2. you modify the intervention for the special population
- 8.3. you identify the role of the PTA in the physical therapy interventions

#### **Learning Objectives**

- 8.a. Examine anatomy and pathology of other body systems that may be considered a "special population".
- 8.b. Examine physical therapy considerations for patients with digestive system pathology.
- 8.c. Examine physical therapy considerations for patients with urinary system pathology.
- 8.d. Examine physical therapy considerations for patients with lymphatic system pathology.
- 8.e. Examine physical therapy considerations for patients with reproductive system changes or pathology.
- 8.f. Examine physical therapy considerations for patients with cancer.
- 8.g. Examine physical therapy considerations for patients with endocrine system pathology.