

# OTAT-2320: FUNDAMENTALS OF PHYSICAL DYSFUNCTION

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## Cuyahoga Community College

### Viewing: OTAT-2320 : Fundamentals of Physical Dysfunction

**Board of Trustees:**

2018-01-25

**Academic Term:**

2018-01-16

**Subject Code**

OTAT - Occupational Therapy Assisting

**Course Number:**

2320

**Title:**

Fundamentals of Physical Dysfunction

**Catalog Description:**

Overview of physical disabilities including physical and psychosocial conditions commonly referred to and treated by occupational therapist. Presented within a developmental frame of reference covering adult through old age.

**Credit Hour(s):**

4

**Lecture Hour(s):**

4

**Lab Hour(s):**

0

**Other Hour(s):**

0

## Requisites

**Prerequisite and Corequisite**

PTAT-1300 Functional Anatomy, OTAT-1420 Fundamentals of Psychosocial Dysfunction, and OTAT-1430 Techniques in Psychosocial Dysfunction.

## Outcomes

**Course Outcome(s):**

Research an assigned physical dysfunction condition most commonly addressed by occupational therapy practitioners and present findings to classmates.

**Objective(s):**

1. Define physical disabilities, identify type of physical disabilities, and recognize the impact of physical disabilities in occupational performance.
  2. Describe the basic anatomical and physiological consequences of disease and trauma to the human body from adulthood to the end of life.
  3. Describe how normal anatomy and physiology contribute to wellness and function in the adult and aging human.
  4. List the most common and representative disabling conditions referred to occupational therapy; their classical medical picture, medical treatment, course and prognosis.
  5. Recognize how to identify and utilize the right treatment activity to facilitate and obtain outcomes and goals.
  6. Explain the role of the occupational therapist and occupational therapy assistant in assessment of and intervention with adult and older adult with physical dysfunction.
  7. Apply professional literature in order to make evidence based decisions regarding the use of appropriate occupation-based intervention with adult and older adult with physical dysfunction
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**Course Outcome(s):**

Apply theoretical constructs to various domains of human performance; and reflect on the role of theory in understanding human development.

**Objective(s):**

1. Recognize and describe the contributions of key classic developmental theorists according to domain of function.
  2. Identify and describe key terms associated with development, including functional differentiation of the terms development, maturation, and growth.
  3. Reflect on the implication of the Human Genome Project and the increased influence of behavioral genetics in the study of human participation.
  4. Discuss a systems theory of human development and motor control, including correct application of key terms.
  5. Define and describe the applications of theory.
  6. Define and correctly apply classifications of theory.
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**Course Outcome(s):**

Recognize how culture shapes individual perceptions, beliefs, and values.

**Essential Learning Outcome Mapping:**

Cultural Sensitivity: Demonstrate sensitivity to the beliefs, views, values, and practices of cultures within and beyond the United States.

**Objective(s):**

1. Describe the essential components of cultural awareness and cultural competence.
  2. Discuss the complex interaction and differences between the terms culture, ethnicity and race.
  3. Discuss cultural differences in communication, control, and definition of self.
  4. Explain how developmental expectations and developmental progression are culturally influenced.
  5. Define paralanguage and offer examples of how it relates to culture and life span development.
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**Methods of Evaluation:**

1. Research papers
2. Oral presentation
3. Exams
4. Quizzes
5. Written journal article review
6. Personal history - cultural sensitivity assignment

**Course Content Outline:**

1. Occupational Functioning: Physical Disabilities (NEURO)
  - a. Cerebrovascular Accident
    - i. Description
    - ii. Etiology and Pathology
    - iii. Clinical Presentations
    - iv. Diagnostic Tests and Medical Imaging
    - v. Medical and Surgical Procedures
    - vi. Screening and Assessments
    - vii. Intervention
    - viii. Reevaluation and Plan Modifications
      - i. Impact on Occupational Performance
  - b. Traumatic Brain Injury
    - i. Description
    - ii. Etiology and Pathology
    - iii. Clinical Presentations
    - iv. Diagnostic Tests
    - v. Medical and Postsurgical Precautions/Contraindications
    - vi. Screening and Assessments
    - vii. Intervention
    - viii. Continuum of Care
    - ix. Expected Functional Outcomes
    - x. Impact on Occupational Performance

- c. Spinal Cord Injury
    - i. Description
    - ii. Etiology and Pathology
    - iii. Precautions and Contraindications
    - iv. Complications of SCI
    - v. Screening and Assessments
      - 1. Top-Down Assessments
      - 2. Bottom-Up Assessments
    - vi. Interventions
    - vii. Impact on Occupational Performance
  - d. Neurodegenerative and Productive Aging
    - i. Amyotrophic Lateral Sclerosis Etiology and Pathology
      - 1. Medical Management
    - ii. Multiple Sclerosis Etiology and Pathology
      - 1. Medical Management
    - iii. Parkinson's Disease , Etiology, and Pathology
      - 1. Medical Management
    - iv. Alzheimer's Disease, Etiology and Pathology
      - 1. Medical Management
    - v. GBS, Etiology and Pathology
      - 1. Medical Management
2. Occupational Functioning: Physical Disabilities (Musculoskeletal and Orthopedics)
- a. Orthopedic conditions of the shoulder
    - i. Proximal Humeral Fractures
    - ii. Clavicle Fractures
    - iii. AS Separation
    - iv. Shoulder Dislocation
    - v. Rotator Cuff Tendinosis and Tears
    - vi. Lateral Tears
    - vii. Adhesive Capsulitis
    - viii. Shoulder Arthritis
  - b. Orthopedic Conditions of the Elbow and Forearm
    - i. Distal Humeral Fractures
    - ii. Olecranon Fractures
    - iii. Radial Head Fractures
    - iv. Elbow Dislocations
    - v. Elbow Arthritis
  - c. Orthopedic Conditions of the Wrist and Hand
    - i. Distal Radius Fractures
    - ii. Scaphoid Fracture
    - iii. Metacarpal Fracture
    - iv. Phalangeal Fractures
    - v. CMC Arthritis of the Thumb
    - vi. Flexor Tendon Injuries
    - vii. Extensor Tendon Injuries
    - viii. Intersection Syndrome
  - d. Upper Extremity Mononeuropathies and Laceration
    - i. Median Nerve
    - ii. Radial Nerve
    - iii. Ulnar Nerve
  - e. Orthopedic Conditions of the Lower Extremity
    - i. Hip Fractures
    - ii. Hip Arthritis
    - iii. Total Hip Arthroplasty
    - iv. Knee Arthritis
    - v. Total Knee Arthroplasty
  - f. Local, Regional and Systemic Disorders
    - i. Rheumatoid Arthritis
    - ii. Osteoarthritis

- iii. Complex Regional Pain Syndrome
- iv. Fibromyalgia
- v. Juvenile Rheumatoid Arthritis
- vi. Psoriatic Arthritis
- g. Amputations
  - i. Upper Limb Amputation and Prosthetics
  - ii. Lower Limb Amputation and Prosthetics
- h. Burn Rehabilitation
  - i. Description
  - ii. Etiology and Pathology
  - iii. Clinical Presentation
  - iv. Burn Classification
  - v. Medical and Surgical Management of the Burn Wound
  - vi. Rehabilitation Services
  - vii. Interventions
  - viii. Impact on Occupational Performance
  - ix. Therapeutic Intervention
- 3. Occupational Functioning: Selected Medical Conditions
  - a. Cardiopulmonary
    - i. Chronic Obstructive Pulmonary Disease
    - ii. Myocardial Infarction
    - iii. Congestive Heart Failure
  - b. Oncology
    - i. Description
    - ii. Etiology and Pathology
    - iii. Risk Factors
    - iv. Clinical Presentation
    - v. Diagnostic Tests
    - vi. Common Medical Procedures
    - vii. Precautions and Contraindications
    - viii. Role of Occupational Therapy in Oncology
    - ix. Interventions
  - c. Diabetes
    - i. Description
    - ii. Diagnostic Tests
    - iii. Medical Treatment for Diabetes
    - iv. Surgical Treatment for Diabetes
    - v. Precautions for the treatment for Diabetes
    - vi. Screening and Assessment
    - vii. OT Interventions
  - d. Human Immunodeficiency Virus and Acquired Immune
    - i. Description
    - ii. Transmission
    - iii. Course of HIV, Symptoms, and Related Conditions
    - iv. Common Diagnostic Tests
    - v. Universal Precautions
    - vi. Occupational Therapy and HIV/AIDS
  - e. Lymphedema
    - i. Description
    - ii. Etiology and Pathology
    - iii. Common Diagnostic Tests for Lymphedema
    - iv. Stages of Lymphedema
    - v. Precautions and Contraindications
    - vi. Screening and Assessments
    - vii. OT Interventions
  - f. Dysphagia
    - i. Description
    - ii. Etiology and Pathology

- iii. Clinical Presentation
  - iv. Screening and Assessments
  - v. Clinical Dysphagia Evaluation
  - vi. Standardized Assessment Tools
  - vii. Frazier Free Water Protocol
  - viii. Interventions
4. Human Performance: The Life Course Perspective
- a. Life Behavioral Change
  - b. Neuroscience and Life Course Development
  - c. Genetics and Life Course Development: Nature-Nurture Revisited
  - d. Developmental Systems Theory
  - e. Systems Theory of Motor Control
  - f. Family Systems
  - g. Systems and Health: Life Course Theory and Health Development Model
  - h. Health Professionals and The Knowledge of Human Development
  - i. Life Course Theory, The ICF and Systems.
5. Culture and Development
- a. Definition of Terms
    - i. Culture
    - ii. Race
    - iii. Ethnicity
    - iv. Religion
    - v. Subculture
    - vi. Acculturation
  - b. Culture as a System of Learned Values
    - i. Cultural awareness
    - ii. Scientific orientation
    - iii. Materialism
    - iv. Individualism
    - v. Moralistic orientation
    - vi. Time orientation
    - vii. Doing rather than Being
    - viii. Egalitarianism
    - ix. Role of Women
    - x. Hygiene
  - c. Awareness of Subcultures
  - d. Cultural Characteristics
    - i. Independence Versus Interdependence
    - ii. Active Achievement vs. Passive Acceptance
    - iii. Authoritarianism, Egalitarianism, and Self-representation
    - iv. Communication Style and Culture
  - e. Cultural Influences on Development
  - f. Poverty and Development
  - g. Culture, Language, and Health Literacy
  - h. Cultural Beliefs about Disability

## Resources

Early M.B. (2013) *Physical Dysfunction Practice Skills for the Occupational Therapy Assistant*, St. Louis: Mosby.

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Trickey-Rokenbrod D. (2017) *Occupational Therapy in Action/A Library of Case Studies*, Philadelphia: Wolters Kluwer.

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Sladick K., Jacobs, K. MacRae, N. (2017) *Occupational Therapy Essentials for Clinical Competence*, Thorofare: Slack Incorporated.

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Meriano, C., Latella, D. (2016) *Occupational Therapy Interventions Function and Occupations*, Thorofare: Slack Incorporated.

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Cronin, A., Mandich M.B. (2016) *Human Development and Performance Throughout the Lifespan*, Boston: CENGAGE Learning.

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**Resources Other**

1. Videos (updated as appropriate).

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