

OTA 220 OT MEDIA II

COURSE DESCRIPTION:

Prerequisites: OTA 120, OTA 130 and OTA 170

Corequisites: None

This course provides training in appropriate and accurate assessment and intervention skills related to orthotics, prosthetics, assistive devices, environmental controls, and Americans with Disabilities Act (ADA) issues. Topics include ergonomics and hand function, splint selection/fabrication, changes that improve access for persons with disabilities, use of modalities in treatment, and computers in occupational therapy intervention. Upon completion, students should be able to demonstrate proficiency in fabricating and monitoring orthotic devices, constructing and modifying assistive devices, using ADA guidelines, and using computers for therapeutic purposes. Course Hours Per Week: Class, 1. Lab, 6. Semester Hours Credit, 3.

LEARNING OUTCOMES:

At the completion of this course, the student will be able to:

- A. Seek adequate information prior to acting
 - 1. Prioritizing assessment, treatment, equipment, environmental modification, or orthotic with OT/L consultation.
 - 2. Differentiating between adequate and inadequate information in simulated situations
 - 3. Use selected assessment tools and maneuvers to gain sufficient information to develop recommendations
- B. Read and use technical and instructional manuals
 - 1. Demonstrate ability to use ADA information, ergonomic information, and building code and architectural information in making recommendations.
 - 2. Demonstrate ability to use splinting material information and patterns to make appropriate orthotic devices in simulated situations.
- C. Use problem solving and critical thinking skills in
 - 1. Orthotics fabrication
 - 2. Adaptive device construction
 - 3. Adapted clothing modification
 - 4. Environmental assessments
 - 5. Assessment and treatment session planning for simulated client situations
- D. Work under time pressure to complete thoroughly and efficiently
 - 1. Environmental assessment and documentation
 - 2. Assistive device construction and documentation

3. Assessment and treatment session with a simulated client situation
 4. All other course assignments and tests Orthotics fabrication and documentation
- E. Listen attentively and effectively to client communications regarding
1. interests, abilities, and needs
 2. concerns and progress
- F. Express ideas clearly in oral presentation regarding
1. Orthotic fabrication, application and evaluation of benefit.
 2. Adaptive equipment construction and use
 3. Results of environmental assessment under ADA guidelines
- G. Interact with and assess clients to determine their needs for orthotics, prosthetics, adaptive devices or environmental modifications.
- H. Express ideas clearly in written reports regarding:
1. The status of the individual prior to, during, and following the fabrication, application, and use of an orthotic device.
 2. An environmental assessment for modifications and adaptations based on a variety of information sources.
- I. Interact with sales representatives and manufacturers regarding the ordering, purchasing, installation, fitting and training for adaptive equipment, prosthetics, orthotics and environmental modifications.
- J. Demonstrate ability to use ADA and other regulations to advocate for universal design, integration of individuals with disabilities into public, work, educational, social settings.
1. Identify barriers and facilitators of integration of individuals with disabilities into public, work, and educational settings.
 2. Plan an intervention to overcome blocks in integration of individuals with disabilities into public, work, and educational settings using appropriate intervention strategies.
 3. Write effective business correspondence regarding the justification of environmental changes, installation of adaptive equipment or availability of special accommodations based on occupational therapy assessment and recommendations.
 4. Use tact and diplomacy to negotiate a change in the accessibility of a facility, area or business.
- K. Respect clients' rights and values in assessing and intervening with devices and environmental changes.
- L. Assist with data collection and evaluation under the supervision of an OTR/L in the areas of orthotics, prosthetics, adaptive equipment, and environmental modifications.
- M. Maintain treatment area, equipment and supply inventory as required during task performance.

- N. Apply principles of occupational therapy theory and practice in the areas of orthotics, prosthetics, adaptive equipment, and environmental modifications.
- O. Adapt treatment environment, tools, materials, and activities according to the needs of the individual and their social, personal, temporal, and cultural contexts under the supervision of an OTR/L.
- P. Provide for client safety and privacy during fabrication, fitting, application and monitoring activities.

OUTLINE OF INSTRUCTION:

- I. Review the process of translating assessment findings into interventions
- II. Review biomechanical principles
- III. Review applied kinesiology
- IV. Motor control theories
 - A. Review of theories
 - B. Treatment
- V. Functional mobility
 - A. review of functional mobility
 - B. transfers (car & toilet)
 - C. gait and locomotion
 - D. w/c propulsion
- VI. W/C seating and fitting
- VII. Orthotic Devices – assessment, construction, application, documentation
- VIII. Adaptive Equipment - assessment, construction, application, documentation
- IX. Ergonomics & Workplace Assessments
 - A. Definitions
 - B. Purposes
 - C. Principles
 - D. Interventions
 - E. Roles for COTAs and OTRS
- X. Assistive technology

XI. ADA Guidelines and interventions

XII. Review and application of assessment and intervention skills

REQUIRED TEXTBOOKS AND MATERIALS:

To be determined by the instructor.

STATEMENT FOR STUDENTS WITH DISABILITIES:

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 919-536-7207, ext. 1413 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 1209.