

Virginia Western Community College**OCT 210
Assistive Technology in Occupational Therapy****Prerequisites: OTA Program placement****Course Description:**

Explores the assistive technologies available for persons with physical, sensory and cognitive disabilities. Provides instruction in the process of assessment, selection adaptation and training of assistive technology to persons with disability. Presents information on funding and maintenance of devices. Exposes students to technology in clinical practice and equipment companies.

Semester Credits: 2

Lecture Hours: 2

Required Materials

Materials to be provided in class.

Course Objectives

1. Introduce students to a range of assistive technologies and devices used to support individuals with physical, sensory, and cognitive deficits. (SLO #1, 3)
2. Provide instruction in the assessment, selection, adaptation, and training processes for assistive technology and durable medical equipment. (SLO #2, 4, 5)
3. Facilitate hands-on learning with exposure to clinical technologies and equipment used in healthcare settings. (SLO #3, 4, 5)
4. Present information on funding sources, reimbursement systems, and documentation requirements related to assistive technology and durable medical equipment. (SLO #6, 7).
5. Support understanding of care coordination, consultation, and transition planning in the context of assistive technology service delivery. (SLO #8, 9)

Student Learning Outcomes

At the completion of this course, the student will:

1. Assess, grade, and modify the way persons, groups, and populations perform occupations and activities by adapting processes, modifying environments, implementing assistive technology adaptive equipment, and applying ergonomic principles to reflect the changing needs of the client, sociocultural context, and technological advances. (ACOTE B.3.8.)
2. Describe the collaboration process with the occupational therapist to identify appropriate features of assistive technology and durable medical equipment to support the client's participation. (ACOTE B.3.15.)
3. Demonstrate strategies with assistive technologies and devices (e.g., aids for communication, mobility, sensory loss, computer access, seating, and positioning systems) used to enhance occupational performance. (ACOTE B.3.15.)

4. Explain the need for orthotics and design, fabricate, apply, fit, and train in orthoses and devices used to enhance occupational performance and participation (ACOTE B.3.16.).
5. Train in the safe and effective use of prosthetic devices used to enhance occupational performance (ACOTE B.3.16.).
6. Demonstrate knowledge of various reimbursement systems and funding mechanisms (e.g., federal, state, local, third party, private payer), appeals mechanisms treatment/diagnosis codes (e.g., CPT®, IDC, DSM® codes), and durable medical equipment coding (e.g., HCPCS). (ACOTE B.4.3.)
7. Demonstrate knowledge of documentation requirements (e.g., equipment justifications) that affect consumers and the practice of occupational therapy through Documentation that effectively communicates the need and rationale for occupational therapy services. (ACOTE B.4.3.)
8. Demonstrate knowledge of care coordination, case management, and transition services in traditional and emerging practice environments. (ACOTE B.4.6.)
9. Demonstrate knowledge of the consultative process with persons, groups, programs, organizations, or communities in collaboration with inter- and intraprofessional colleagues. (ACOTE B.4.6.)

Major Topics to be Included

- Principles of assistive technology
- Universal design
- Activity analysis
- Americans with Disabilities Act
- Service delivery process
- Ethical issues in assistive technology
- Environmental modifications
- Physical, cognitive, and sensory aids/assistive technology
- Client/caregiver education and training techniques
- Funding/billing

[ADA Statement](#) (PDF)

[Title IX Statement](#) (PDF)