

OTA 1250: Asst. Tech and Env. Adapt. (Assistive Technology and Environmental Adaptation)

Credit Hours: 3

Lecture Hours: 1

Lab Hours: 4

Instructor:

Office Hours: As posted or by appointment

Office Location: Suite 27

Office Phone:

OTA Office Phone: 615-353-3708

OTA Office Fax: 615-353-3608

Email: Preferred through this course shell

Course Description:

A study of adapting, altering or designing environments that support participation and facilitate engagement in social, family and community activities. All levels of assistive technology will be reviewed and discussed. Topics include but are not limited to home modifications, driving evaluations, communication devices and community mobility. Students will evaluate participation limitations and facilitators for individuals and communities.

Course Prerequisites:

OTA 1110, OTA 1120, OTA 1130, OTA 1140, OTA 1150

Course Meeting Dates/Times/Location:

Lecture: Thursdays: 9 - 10 (unless otherwise specified on schedule)

Lecture Room: A15

Lab: Thursdays: 10 - 2 (unless otherwise specified on schedule)

Course Objectives:

Objective	Assessment Methods	Specific Class Experiences Related to the objective	ACOTE Standard
<p>Be able to utilize the knowledge of task analysis to think logically and apply critical analysis to adapt, alter or create environments for the OT client. Emphasis is placed on home, work, school and community environmental adaptations. Demonstrate the ability to adapt the environment, tools and materials necessary for an OT client to engage and participate in Occupations while utilizing proper safety precautions</p>	<p>Tests Home Accessibility Assignment Community Accessibility Assignment Work Accessibility Assignment</p>	<p>Home Evaluations Visits Educational Access School Visit Visit to Mobility Works Switch Workshop</p>	<p>B.5.9</p>
<p>Demonstrate an understanding of the use of technology to support performance, participation, health and well-being.</p>	<p>Tests Low-Tech Assignment Technology Presentation Home Accessibility Assignment Work Accessibility Assignment</p>	<p>All class experiences</p>	<p>B.1.8</p>

<p>Articulate principles of and demonstrate strategies with assistive technologies and devices (e.g., electronic aids to daily living, seating and positioning systems) used to enhance occupational performance and foster participation and well-being.</p>	<p>Tests Home Accessibility Assignment Work Accessibility Assignment</p>	<p>Seating and Positioning for the Significantly Physically Challenged Workshop Wheelchair Components, Seating and Selection Workshop Switch Workshop Driving Rehabilitation Workshop Vision Workshop</p>	<p>B.5.9 B.5.12 B.5.10</p>
<p>Participate in training in techniques to enhance community mobility, including public transportation, community access and issues related to driver education.</p>	<p>Tests</p>	<p>The Greatest Challenge Experience Driver Rehabilitation Workshop</p>	<p>B.5.13</p>
<p>Promot the use of appropriate home and community programming to support performance in the client's natural environment and participation in all contexts relevant to the client. Effectively interact through written, orgal and nonverbal communication with client, family and significant others and the public in a professionally acceptable manner.</p>	<p>Community Accessibility Assignment Work Accessibility Assignment</p>	<p>Car Fit Technician Training and Community Event</p>	<p>B.5.17 B.5.20</p>
<p>Demonstrate an understanding of the continuum of Assistive Technology, from low tech to high tech, and the appropriate application of a variety of tech resources.</p>	<p>Tests</p>	<p>All class experiences</p>	
<p>Develop a knowledge of technology specialists in the community, the importance of advocacy, due process, appeals system and assisting the consumer with individuals to gain access to OT services.</p>		<p>All class experiences</p>	<p>B.9.12</p>

Be able to utilize professional literature and informational resources on Assistive Technology and Environmental Adaptations to assist in enhancing personal, professional abilities and develop competence in the use of technology in OT.	Home Accessibility Assignment Community Accessibility Assignment Work Accessibility Assignment		B.8.3
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NSCC General Education Outcomes met/ supported by this course:

NSCC Objective	Assignments and/or Instructional methods that meet/support this standard
Write clear, well-organized documents.	Written work and presentation for assigned topic.
Know how to locate, evaluate, and use information sources	Written work and presentation for assigned topic.
Use critical thinking skills	Evaluation Competency, question answering portion of presentation
Prepare and deliver well-organized oral presentations.	Rough Draft review meeting with instructor Presentations for assigned topic

Tennessee Board of Regents General Education Outcomes met/supported by this course

TBR Objective	Assignments and/or Instructional methods that meet/support this standard
Students are able to employ correct diction, syntax, usage, grammar, and mechanics for Oral Communication	Rough Draft review meeting with instructor Presentations for assigned topic
Students are able to order major points in a reasonable and convincing manner based on that purpose	Rough Draft review meeting with instructor Presentations for assigned topic

Students are able to employ correct diction, syntax, usage, grammar, and mechanics for Written Communication	Written work for assigned topic.
Students are able to manage and coordinate basic information gathered from multiple sources	Written work for assigned topic

Required Materials:

- There is no required textbook for this course. All materials will be available through the library, posted on in the course shell or distributed in class.
- Students are required to purchase an electronic toy for the Switch Class. Additional details to be provided in class. Toys typically run \$15 - \$20.
- Students are required to have access to reliable transportation. The class makes many fieldtrips and students are responsible for transportation to and from the field sites.
- Students will participate in a community accessibility assignment which requires the student to access the Metro Bus System. There is a minimal cost associated with the bus trip. Students are responsible for this cost.

Grading:

Four online exams @ 10% each	40%
Home Accessibility Assignment	20%
Community Accessibility Assignment	15%
Work Accessibility Assignment	10%
Technology Presentation	5%
Low Tech Patient Handout	5%
Car Fit	5%

3/2/2016