

**JAMESTOWN COMMUNITY COLLEGE**  
**State University of New York**

---

**INSTITUTIONAL COURSE SYLLABUS**

**Course Title:** Tech. & Enviro. App for Living

**Course Abbreviation and Number:** OTA 2550

**Credit Hours:** 3

**Course Type:** Lecture/Lab

**Course Description:** Students are provided with a basic knowledge of assistive devices and their use with diverse populations in a variety of practice settings. Students will be exposed to both low and high level technologies including the use of adaptive equipment, wheelchairs and positioning devices, computer modifications, and environmental adaptation. This course provides instruction in selection and modification of adaptive equipment and wheelchairs, and documentation. Students will learn how to educate clients on the use of the assistive devices necessary to improve their occupational performance.

Prerequisite: OTA 1530 and OTA 1640 with a grade of C or better.

---

**Student Learning Outcomes:**

Students who demonstrate understanding can:

1. Demonstrate knowledge of the use of technology in practice, including electronic documentation systems, virtual environments and telehealth technology. (B.4.15)
  2. Define the safe and effective application of superficial thermal agents, deep thermal agents, electrotherapeutic agents, and mechanical devices used to improve occupational performance. (B.4.11)
  3. Explain the need for and demonstrate strategies with assistive technologies and devices used to enhance occupational performance. (B.4.11)
  4. Relate knowledge of muscles and movements to modification and/or adaptation of tasks.
- 

**Topics Covered:**

- Functional anatomy, planes of movement, and palpation
  - Seating and mobility
  - Switches and environmental control units
  - Ergonomics
  - Accessibility including services and legislation
  - Modification and adaptation of tasks and environments
  - Adaptive equipment and assistive technology
  - Universal design
- 

**Information for Students**

- Expectations of Students
    - [Civility Statement](#)
    - [Student Responsibility Statement](#)
    - [Academic Integrity Statement](#)
  - [Accessibility Services](#)  
Students who require accommodations to complete the requirements and expectations of this course because of a disability must make their accommodation requests to the Accessibility Services Coordinator.
  - [Get Help: JCC & Community Resources](#)
  - [Emergency Closing Procedures](#)
  - Course grade is determined by the instructor based on a combination of factors, including but not limited to, homework, quizzes, exams, projects, and participation. Final course grade can be translated into a grade point value according to the following:

A=4.0	B+=3.5	B=3	C+=2.5	C=2	D+=1.5	D=1	F=0
-------	--------	-----	--------	-----	--------	-----	-----
  - Veterans and active duty military personnel with special circumstances (e.g., upcoming deployments, drill requirements, VA appointments) are welcome and encouraged to communicate these to the instructor.
- 

**Effective Date:** Fall 2021